



# ANNUAL REPORT

## 2021-22



**J.C. BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY,  
YMCA, FARIDABAD (HARYANA)**

**A State Government University (Accredited 'A+' Grade by NAAC)**

(Established by Haryana State Legislative Act No. 21 of 2009  
& Recognized by UGC Act 1956 u/s 22 to Confer Degrees)

NH-2, Sector-6, Mathura Road, Faridabad- 121006, Haryana (India)



## **FOREWORD**



It gives me immense pleasure in presenting the Annual Report of the J.C. Bose University of Science and Technology, YMCA, Faridabad (formerly known as YMCA University of Science and Technology) for the session 2021-2022. This Report has been compiled in pursuance of Section 25 of the YMCA University of Science and Technology, Faridabad Act, 2009.

The report has been compiled under the direction of the Executive Council for submission to the Visitors, Chancellor, and State Government through the Executive Council and University Court. This Annual Report is a record of the University's endeavours and achievements over the course of a year. It is a comprehensive overview of an entire year's academic, administrative, research, placement, and financial inputs drawn from the university's departments and administrative offices. This Annual Report reflects the involvement of the faculty in research publications in reputed national and international journals and also reflects the numerous academic and co-curricular activities organized by the University.

In consonance with the vision of the country's top leadership, as reflected in the National Education Policy (NEP) 2020, the University focuses on producing trained human resource which has extensive knowledge, modern skills, diverse abilities, leadership qualities, entrepreneurial abilities, and strong cultural and ethical values as guiding spirit. Importantly, the programs offered have been designed very carefully keeping in view the functionality of output to bridge the gap between higher education and employment.

The University is offering a wide spectrum of programmes and started six new courses from the academic session 2021-22 including two courses in Regional Language (Hindi) i.e. B.Tech in Mechanical Engineering and B.Tech in Computer Engineering. Also, B.Tech in Robotics and Artificial Intelligence, Environmental Engineering, B.Sc-Life Sciences, B.Com (Hons.), and Bachelor of Social Work have been started from the academic session 2021-22. The University is committed to provide quality and creative research in Engineering, Sciences, and Management. The University is indebted to the State Government of Haryana for releasing grants for all-round development.

I would like to record my appreciation and acknowledgment towards the cooperation of all the teaching and non-teaching staff members involved in the compilation of this Annual Report.

**Prof. S. K. Tomar**  
Vice-Chancellor



## **EDITORIAL COMMITTEE**

The Annual Report of the J.C. Bose University of Science and Technology, YMCA, Faridabad for the Financial and Academic year 2021- 2022 is presented here. The Report contains information about the University bodies, faculty and staff positions, research initiatives, academic progress, Departmental and co-curricular activities, placements and financial summary.

The Editorial Committee comprised of the following members:

- |                             |   |
|-----------------------------|---|
| 1. Dr. Anju Gupta           | Professor, Electrical Engineering                       |
| 2. Dr. Pawan Singh Malik    | Associate Professor, Communication and Media Technology |
| 3. Dr. Pooja Garg           | Assistant Professor, Mathematics                        |
| 4. Dr. Rashmi Gupta         | Assistant Professor, Physics                            |
| 5. Dr. Parveen              | Assistant Professor, Management Studies                 |
| 6. Sh. Jitender Singh Yadav | Public Relations Officer                                |

The Report presents the highlights of the activities and achievements of the J.C. Bose University of Science and Technology, YMCA, Faridabad during the year 2021-2022. The information presented in this Report is based on the data/information provided to the Committee by the concerned Departments/Sections.



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## Annual Report 2021-22



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## **THE UNIVERSITY**

### **INTRODUCTION**

J.C. Bose University of Science and Technology, YMCA, Faridabad (Haryana) formerly known as YMCA University of Science & Technology, Faridabad was established in 2009 vide Haryana Govt. Gazette Notification No.29 of 2009 dated 16.9.2009 (Haryana Act No. 21 of 2009). Earlier, known as YMCA Institute of Engineering, Faridabad, founded in the year 1969 as a Joint Venture of Govt. of Haryana and National Council of YMCA of India with active assistance from overseas agencies of West Germany to produce highly practical oriented personnel in specialized field of Engineering to meet specific technical manpower requirement of Industries. The University has been well known for its track record of employment of the pass out students since its inception. The University has been allowed to conduct B.Tech. Course of 4-Years duration from the session 1997-98 and students are admitted through centralized counselling conducted by agency nominated by State Govt. from time to time in 1<sup>st</sup> Year and also has been allowed to admit students in 2<sup>nd</sup> year through Lateral Entry Entrance Test. Besides Under Graduate Degree Courses like B.Tech. B.Sc., BCA, BBA, B.Com. B.A, etc. The University is also running a number of Post Graduate Degree programmes like M.Tech, M.Sc., MBA, MCA, MA and Ph.D. It has excellent record of placement. The competence of the University has been recognized at various levels by the agencies like UGC (grant of 12B status), NAAC (Grade A+ accreditation), NBA and NIRF (best ranking amongst Technical Universities/Instites in Haryana).

The University is situated right on the National Highway No.2 known as Mathura Road, 32 Kms. from the National Capital, New Delhi. It had been upgraded from erstwhile YMCA Institute of Engineering during session 2009-10. The University has its own Campus on a plot area of 20 acres. It is located in the growing and sprawling Faridabad-Ballabgarh Industrial Complex of Haryana. The University is well connected with Rail and Road Transport from Delhi/New Delhi.

### **VISION**

J.C. Bose University of Science and Technology, YMCA, Faridabad aspires to be a nationally and internationally acclaimed leader in technical and higher education in all spheres which transforms the life of students through integration of teaching, research and character building.

### **MISSION**

- To contribute to the development of science and technology by synthesizing teaching, research and creative activities.
- To provide an enviable research environment and state-of-the-art technological exposure to its scholars.
- To develop human potential to its fullest extent and make them emerge as world class leaders in their Professions and enthuse them towards their social responsibilities.



## INCUMBENCY BOARD

### CHANCELLOR

Sr. No.	Name	From	To
1.	Hon'ble Shri Jagannath Pahadia	01.12.2009	26.07.2014
2.	Hon'ble Prof. Kaptan Singh Solanki	27.07.2014	24.08.2018
3.	Hon'ble Shri Satyadeo Narain Arya	25.08.2018	06.07.2021
4.	Hon'ble Shri Bandaru Dattatreya	07.07.2021	Till Date

### VICE- CHANCELLOR

Sr. No.	Name	From	To
1.	Sh. A. K. Singh, IAS	01.12.2009	22.04.2010
2.	Sh. Mohinder Kumar, IAS	23.04.2010	30.03.2012
3.	Lt. Gen. (Retd.) K. S. Yadava	30.03.2012	30.03.2015
4.	Dr. Sandeep Grover	30.03.2015	03.11.2015
5.	Prof. Dinesh Kumar	04.11.2015	03.11.2021
6.	Sh. Raj Nehru	04.11.2021	03.02.2022
7.	Prof. S.K. Tomar	22.02.2022	Till Date

### REGISTRAR

Sr. No.	Name	From	To
1.	Dr. Ashok Kumar Arora	10.12.2009	31.05.2010
2.	Dr. Ashok Sharma	01.06.2010	16.04.2012
3.	Dr. (Mrs.) Shimla	17.04.2012	08.09.2014
4.	Dr. Sandeep Grover	09.09.2014	30.03.2015
5.	Dr. Tilak Raj	30.03.2015	30.03.2016
6.	Dr. Sanjay Kumar Sharma	30.03.2016	30.03.2019
7.	Dr. Raj Kumar	01.04.2019	06.09.2019
8.	Dr. Sunil Kumar Garg	06.09.2019	Till date

### DEANS

Dean's Name	Faculty / Other
Dr. Tilak Raj	Dean, Colleges
Dr. P. R. Sharma	Dean, Construction and Maintenance
Dr. Sandeep Grover	Dean, Institutions
Dr. Ashutosh Dixit	Dean, Academics Affairs
Dr. Vikram Singh	Dean, Alumni Affairs
Dr. Lakhwinder Singh	Dean, Student Welfare



Dr. M. L. Aggarwal	Dean, Faculty of Engineering and Technology
Dr. C.K. Nagpal	Dean, Faculty of Informatics and Computing
Dr. Ashutosh Nigam	Dean, Faculty of Management Studies
Dr. Neetu Gupta	Dean, Faculty of Sciences and Life Sciences
Dr. Arvind Kumar	Dean, Inter-disciplinary Studies
Dr. Atul Mishra	Dean, Faculty of Liberal Arts & Media Studies

**CHAIRPERSON/INCHARGE OF DEPARTMENTS**

<b>Name</b>	<b>Department</b>
Dr. Raj Kumar	Department of Mechanical Engineering
Dr. Atul Mishra	Department of Computer Engineering
Dr. Manjeet Singh	Department of Computer Applications
Dr. Pradeep Kumar	Department of Electronics Engineering
Dr. Anju Gupta	Department of Electrical Engineering
Dr. Anuradha Sharma	Department of Physics
Dr. Neetu Gupta	Department of Mathematics
Dr. Ravi Kumar	Department of Chemistry
Dr. Renuka Gupta	Department of Environmental Sciences
Dr. Rachna Aggarwal	Department of Management Studies
Dr. Manisha Goel	Department of Business Studies
Dr. Pawan Singh Malik	Department of Communication and Media Technology
Dr. Arvind Kumar	Centre of Energy Studies
Dr. Rajni Saggu	Department of Civil Engineering
Dr. Kakoli Dutt	Department of Life Sciences



## OTHER OFFICIALS

Name of Official	Position
Dr. C.K. Nagpal	First Appellate Authority
Dr. Hari Om	Controller of Examination
Dr. Ashutosh Dixit	Director- IQAC
Dr. Pradeep Kumar	Director – Youth and Cultural Affairs
Dr. Ashutosh Nigam	Director – Admissions
Dr. Naresh Chauhan	Director – R&D
Dr. Neelam Duhan	Director – UCC & DA
Dr. Shilpa Sethi	Director – International Affairs
Dr. Ravi Kumar	Director – Central Instrumentation Laboratory
Dr. Munish Vashishath	Chief Hostel Warden (Boys) & Proctor
Dr. Komal Kumar Bhatia	Controller of Finance
Dr. Anuradha Pillai	Chief Hostel Warden (Girls)
Dr. Sanjeev Kumar	Training & Placement Officer
Dr. Sanjeev Goyal	Principal, CCSD
Dr. P.N. Bajpai	Dy. Librarian
Dr. Meha Sharma	DR – Establishment
Mr. Manish Gupta	DR – Academics & Affiliation
Sh. Vivek Sharma	Workshop Superintendent
Dr. Ankur Sharma	Medical Officer
Mr. Ajay Taneja	Superintending Engineer
Sh. Sachin Gupta	AR – Examination
Sh. Vishal Kumar	AR – Store & Purchase
Dr. Jyoti Mor	AR – Academics
Sh. Gaurav garg	AR – Affiliation
Sh. Anil Kumar Sharma	Sub- Divisional Engineer (Civil)
Mr. Jitender Singh Yadav	Public Relations Officer & Nodal Officer (RTI)
Mr. Ankit Pannu	System Analysts cum Programmer
Ms. Renu Dagar	Assistant Law Officer – APIO



<b>STRENGTH OF STAFF</b>		
<b>Sr. No.</b>	<b>Details (2021-22)</b>	<b>Count</b>
1.	Teaching Staff	151+51 (Contractual)
2.	Non-Teaching & Technical Staff	150+5 (SFS)
<b>ACADEMIC DETAILS</b>		
1.	Ph.D. Admissions	39
2.	Student Intake (UG/PG)	2023+390*
3.	Total Existing Students (UG/PG)	5590+287*
4.	Student Placements	627
<b>UNIVERSITY FINANCES (PLAN &amp; NON PLAN) (IN LACS)</b>		
1.	Opening Balance as on 1st April 2021	2,218.77
2.	Receipt/Income	13,830.40
3.	Expenditure	13,845.76

\* CCSD

**MEETINGS OF UNIVERSITY BODIES (2021-22)**

<b>Sr. No.</b>	<b>Name of Body</b>	<b>Meeting Held</b>
1.	University Court	9 <sup>th</sup> meeting held on 28.07.2021 10 <sup>th</sup> meeting held on 21.04.2022
2.	Executive Council	38 <sup>th</sup> meeting held on 16.10.2020 39 <sup>th</sup> meeting held on 31.03.2021 40 <sup>th</sup> Meeting held on 29.06.2021 41 <sup>st</sup> meeting held on 28.07.2021 42 <sup>nd</sup> meeting held on 21.04.2022 43 <sup>rd</sup> meeting held on 28.07.2022
4.	Academic Council	22 <sup>nd</sup> meeting held on 28.09.2021 23 <sup>rd</sup> meeting held on 31.05.2022 24 <sup>th</sup> meeting held on 19.07.2022
3.	Finance Committee	16 <sup>th</sup> meeting held on 24.03.2023



## BODIES OF UNIVERSITY

*YMCA University of Science & Technology, Faridabad Act, 2009 (Haryana Act No. 21 of 2009)*  
(Gazette Notification No. Leg. 29/2009, dated 16.9.2009)

### A) THE UNIVERSITY COURT

#### Section-14 of University Act:

The Court shall have the following the following powers and functions, namely:

- To review, from time to time, the broad policies, and programmes of the University and to suggest measures for the improvement and development of the University;
- To consider and pass resolution of the annual report, annual budget and the annual accounts of the University and on audit report of such accounts;
- To advise the Chancellor in respect of any matter which may be referred to it for advice; and
- To perform such other functions, as may be prescribed by the statutes.

#### FORMATION OF COURT

Sr. No.	Membership as	Duration	
		From	Till
1.	Vice Chancellor	Ex-Officio Member	
2.	Secretary to Govt., Finance Department, Haryana	Ex-Officio Member	
3.	Secretary to Govt., Technical Education, Haryana	Ex-Officio Member	
4.	Director General –Technical Education, Haryana	Ex-Officio Member	
5.	Legal Remembrance, Haryana	Ex-Officio Member	
6.	Dean – Faculty of Engineering and Technology	Ex-Officio Member	
7.	Dean – Faculty of Management Studies	Ex-Officio Member	
8.	Dean – Faculty of Sciences	Ex-Officio Member	
9.	Dean – Faculty of Informatics and Computing	Ex-Officio Member	
10.	Dean – Faculty of Liberal Arts & Media Studies	Ex-Officio Member	
11.	Dean – Faculty of Interdisciplinary Studies	Ex-Officio Member	
12.	Controller of Examinations	Ex-Officio Member	
13.	Registrar – Member Secretary	Ex-Officio Member	
14.	Librarian	Ex-Officio Member	
15.	Assistant Law Officer	Ex-Officio Member	
16.	Prof. S K Gakhar, Vice Chancellor, I.G. University, Rewari	23.08.2020	22.08.2022
17.	Prof. Nirmala Chaudhry, Professor, Kurukshetra University	23.08.2020	22.08.2022
18.	Prof. Jai Prakash Saini, Director, NSIT, New Delhi	23.08.2020	22.08.2022
19.	Sh. Sanjeev Kumar	23.08.2020	22.08.2022
20.	Sh. Balbir Singh Beniwal, Dean, SG Institute of Dairy Technology, Patna	23.08.2020	22.08.2022
21.	Dr. Manjeet Singh, Professor	23.08.2020	22.08.2022
22.	Dr. Munish Vashishath, Professor	23.08.2020	22.08.2022
23.	Dr. Poonam Singhal, Professor	23.08.2020	22.08.2022



24.	Dr. Ashutosh Dixit, Professor	23.08.2020	22.08.2022
25.	Dr. Ashutosh Nigam	23.08.2020	22.08.2022
26.	Sh. Naresh Yadav, Associate Professor	23.08.2020	22.08.2022
27.	Dr. Rachna Aggarwal, Associate Professor	23.08.2020	22.08.2022
28.	Dr. Harish Kumar, Assistant Professor	23.08.2020	22.08.2022
29.	Dr. Shilpa Sethi, Assistant Professor	23.08.2020	22.08.2022

## B) PLANNING BOARD OF THE UNIVERSITY

### Section-25 of University Act (Statutes):

- The Planning Board shall advise on the planning and development of the University particularly in respect of the standard of education and research in the University.
- The recommendations of the Board shall be implemented after they are approved by appropriate authorities of the University.

### CONSTITUTION OF PLANNING BOARD

Sr. No.	Name of Member	Duration of Membership	
		From	Till
1.	Vice Chancellor	Ex-Officio Chairman	
2.	Secretary - Finance Deptt, Haryana	Ex-Officio Member	
3.	Secretary to Govt, Technical Education Deptt, Haryana	Ex-Officio Member	
4.	Director General-Technical Education, Haryana	Ex-Officio Member	
5.	Controller of Finance, JC Bose UST	Ex-Officio Member	
6.	Prof. Sohan Saharan, Prof. in Deptt. of Architecture Design, Chandigarh College of Architecture, CHD	01.01.2021	31.12.2022
7.	Prof. Tankeshwar Kumar, Vice Chancellor, GUJ S&T	01.01.2021	31.12.2022
8.	Prof. Rajbir Singh, Vice Chancellor, MDU, Rohtak	01.01.2021	31.12.2022
9.	Dr. Shreyansh Dwivedi, Vice Chancellor, Maharishi Valmiki Sanskrit University, Kaithal	01.01.2021	31.12.2022
10.	Dr. (Mrs.) Sudesh, Prof & Chairperson, University School of Management, Kurukshetra University, Kurukshetra	01.01.2021	31.12.2022
11.	Prof. K K Aggarwal, Chairman, NBA, New Delhi	01.01.2021	31.12.2022
12.	Registrar – Member Secretary	Ex-Officio	





### C) EXECUTIVE COUNCIL OF THE UNIVERSITY

#### Section-15 of University Act:

The Executive Council shall be principal executive body of the University. Its constitution is as per provisions of University Act 2009.

The executive council shall exercise the following powers namely:

- To hold control and administrate the revenue property and funds of the University.
- To regulate the duties of Professors, Associate Professors, Assistant Professors and other academic staff and Deans of University.

#### FORMATION OF EXECUTIVE COUNCIL

Sr. No.	Name of Member	Duration of Membership	
		From	Till
1.	Prof. S.K. Tomar, Vice Chancellor & Chairman	Ex-Officio Member	
2.	Secretary to Govt.-Finance Deptt, Haryana	Ex-Officio Member	
3.	Secretary to Govt.-Technical Education Deptt, Haryana	Ex-Officio Member	
4.	Director General- Technical Education Deptt, Haryana	Ex-Officio Secretary	
5.	Dean – Institutions	Ex-Officio Member	
6.	Prof. Victor Gambhir, Vice Chancellor, SGT University, Gurugram	23.08.2020	22.08.2022
7.	Prof. Rajbir Singh, Vice Chancellor, Maharishi Dayanand University, Rohtak	23.08.2020	22.08.2022
8.	DR. (Mrs.) Shimla, Former Registrar-BPSM University & YMCA UST, FBD	23.08.2020	22.08.2022
9.	Prof. Rajendra K. Anayat, Vice Chancellor, DCRUST, Murthal	23.08.2020	22.08.2022
10.	Dr. Deepti Dharmani, Professor, CDLU, Sirsa	23.08.2020	22.08.2022
11.	Dr. M L Aggarwal, Dean – FET	23.08.2020	22.08.2022
12.	Dr. Komal Kumar Bhatia, Dean – FIC	23.08.2020	22.08.2022
13.	Dr. Atul Mishra, Dean – FLAMS	23.08.2020	22.08.2022
14.	Prof. Raj Kumar, Mechanical Engineering	23.08.2020	22.08.2022
15.	Dr. Rajesh Kumar Ahuja, Electrical Engineering	23.08.2020	22.08.2022
16.	Registrar – Secretary	Ex-Officio Member	

**D) FINANCE COMMITTEE OF THE UNIVERSITY**

Sr. No.	Name of Member	Duration of Membership	
		From	Till
1.	Vice Chancellor & chairman	Ex-Officio Member	
2.	Secretary to Govt., Finance Department, Haryana	Ex-Officio Member	
3.	Secretary to Govt., Technical Education Department, Haryana	Ex-Officio Member	
4.	Director General-Technical Education Department, Haryana	Ex-Officio Member	
5.	Controller of Finance, JCB UST	Ex-Officio Member	
6.	Registrar- JCBUST, YMCA	Ex-Officio Member Secretary	
7.	Prof. Atul Mishra, Dean – FLAMS	13.08.2021	12.08.2023
8.	Prof. (Dr.) M. L. Aggarwal -FET	13.08.2021	12.08.2023
9.	Dr. K.P. Kaushik, Professor, National Institute of Financial management (Nominee-Governor)	13.08.2021	12.08.2023
10.	Dr Anil Gupta, Professor-Department of Management, Kurukshetra University (Nominee-Governor)	13.08.2021	12.08.2023

**E) ACADEMIC COUNCIL****Section-16 (1) of University Act:**

1. The Academic Council shall be principal academic body of the University and shall, subject to the provisions of this Act, the Statues and Ordinances, co-ordinate and exercise general supervision over all academic policies of the University.
2. The constitution of Academic Council, the term of its office members, its power and functions are as per provision of University Act 2009.

**FORMATION OF ACADEMIC COUNCIL**

Sr. No.	Member	Duration	
		From	Till
1.	Vice Chancellor	Ex-Officio Chairman	
2.	Director General-Technical Education, Haryana	Ex-Officio Member	
3.	Registrar – Member Secretary	Ex-Officio Member	
4.	Dean-Institutions	Ex-Officio Member	
5.	Dean- Engg & Tech	Ex-Officio Member	
6.	Dean- Management	Ex-Officio Member	
7.	Dean – Faculty of Studies	Ex-Officio Member	
8.	Dean – FIC	Ex-Officio Member	
9.	Dean – Faculty of Liberal Arts & Media Studies	Ex-Officio Member	
10.	Controller of Finance	Ex-Officio Member	
11.	Controller of Examinations	Ex-Officio Member	
12.	Librarian	Ex-Officio Member	
13.	Prof. Tankeshwar Kumar, VC, GJU Hisar	01.09.2020	31.08.2022



14.	Prof. C P Singh, Dean-GGS IP University, New Delhi	01.09.2020	31.08.2022
15.	Prof. Avinash Chawla, VC (Retd) Kurukshetra University	01.09.2020	31.08.2022
16.	Dr. M K Soni, Pro VC, Manav Rachna International Institute of Research and Studies	01.09.2020	31.08.2022
17.	Prof. S C Goyal, Professor (Retd) HAU, Hisar	01.09.2020	31.08.2022
18.	Prof. P J George, Professor (Retd) KUK, Kurukshetra	01.09.2020	31.08.2022
19.	Prof. B Prasad, Professor, KUK, Kurukshetra	01.09.2020	31.08.2022
20.	Prof. K K Gupta, Principal, Aggarwal College, Ballabgarh	01.09.2020	31.08.2022
21.	Dr. Tilak Raj, Professor-FET	01.09.2020	31.08.2022
22.	Dr. Komal Kumar Bhatia, Professor- FIC	01.09.2020	31.08.2022
23.	Dr. Ashutosh Nigam, Professor- FMS	01.09.2020	31.08.2022
24.	Dr. Sonia Bansal, Associate Professor- FOS	01.09.2020	31.08.2022
25.	Dr. Divya Jyoti, Associate Professor-FLAMS	01.09.2020	31.08.2022
26.	Dr. Shilpa Sethi, Assistant Professor, FIC	01.09.2020	31.08.2022
27.	Dr. Archana Aggarwal, Associate Professor-FET	01.09.2020	31.08.2022
28.	Dr. Rachna Agrawal, Associate Professor-FMS	01.09.2020	31.08.2022
29.	Dr. Maneesha Garg, Associate Professor-FOS	01.09.2020	31.08.2022
30.	Sh. Bal Krishan, Assistant Professor-FET	01.09.2020	31.08.2022
31.	Ms. Shruti Sharma, Assistant Professor- FIC	01.09.2020	31.08.2022
32.	Ms. Neha Goyal, Assistant Professor –FMS	01.09.2020	31.08.2022
33.	Dr. Bindu Mangla, Assistant Professor-FOS	01.09.2020	31.08.2022



# **FILLED AND UNFILLED FACULTY & STAFF POSITIONS**



## DEPARTMENT AND COURSE-WISE FACULTY POSITIONS AND STATUS

Sr. No.	Department	Course	Aided/Self-Financed	Post	Sanctioned	Filled
1.	Mechanical Engineering Department	B.Tech.	Aided Course	Professor	04	04
				Associate Professor	08	07
				Assistant Professor	17	15
		M.Tech.	Self-Financed	Professor	01	00
				Associate Professor	01	00
				Assistant Professor	01	01
2.	Computer Engineering Department	B.Tech. (Computer Engineering)	Aided Course	Professor	02	02
				Associate Professor	04	04
				Assistant Professor	09	09
		M.Tech.	Self-Financed	Professor	02	00
				Associate Professor	02	00
				Assistant Professor	02	02
		B.Tech. (Information Technology)	Self-Financed	Professor	02	00
				Associate Professor	04	00
				Assistant Professor	09	09
		M.Tech (Information Technology)	Self-Financed	Professor	01	00
				Associate Professor	01	00
				Assistant Professor	01	01
3.	Computer Applications Department	MCA	Self-Financed	Professor	01	00
				Associate Professor	02	01
				Assistant Professor	04	04
4.	Electrical Engineering Department	B.Tech.	Aided Course	Professor	02	01
				Associate Professor	04	04
				Assistant Professor	09	08
		M. Tech.	Self-Financed	Professor	01	00
				Associate Professor	01	00
				Assistant Professor	01	01
5.	Electronics &	B.Tech.	Aided Course	Professor	02	01



	Instrumentation Control Department			Associate Professor	04	03
				Assistant Professor	10	10
6.	Electronics & Communication Engineering Department	B. Tech	Self-Financed	Professor	03	00
				Associate Professor	05	01
				Assistant Professor	10	09
		M.Tech.	Self-Financed	Professor	02	00
				Associate Professor	02	01
				Assistant Professor	02	02
7.	Humanities & Sciences Department		Aided Course	Assistant Professor	10	10
			Self-Financed	Professor	05	00
				Associate Professor	05	01
				Assistant Professor	14	07
8.	MBA Department	MBA	Self-Financed	Professor	01	01
				Associate Professor	02	02
				Assistant Professor	05	05
9.	Chemistry Department	B.Sc.	Aided Course	Professor	00	00
				Associate Professor	01	00
				Assistant Professor	06	03
		M.Sc.	Aided Course	Professor	01	01
				Associate Professor	01	01
				Assistant Professor	06	04
10.	Environmental Science Department	M.Sc.	Aided Course	Professor	01	00
				Associate Professor	01	01
				Assistant Professor	04	03
11.	Physics Department	B.Sc.	Aided Course	Professor	00	00
				Associate Professor	01	01
				Assistant Professor	06	05
12.	Mathematics Department	B.Sc.	Aided Course	Professor	00	00
				Associate	01	00



				Professor		
				Assistant Professor	06	05
13.	Civil Department	B. Tech	Aided Course	Professor	01	00
				Associate Professor	02	00
				Assistant Professor	04	03
14.	Bio Tech	M.Sc.	Aided Course	Professor	01	00
				Associate Professor	02	00
				Assistant Professor	04	00
15.	Micro Biology	M.Sc.	Aided Course	Professor	01	00
				Associate Professor	02	00
				Assistant Professor	04	00

**NON- TEACHING/ ADMINISTRATIVE/ TECHNICAL STAFF**

Sr.No.	Name of Post	Pay Band + Grade Pay (Rs.)	No. of Post sanctioned by FD	No. of post filled in	No. of Post lying vacant
1	Vice Chancellor	HAG	1	1	0
2	Registrar	37400-67000+ 10000	1	1	0
3	Controller of Finance	37400-67000+10000	1	0	1
4	Controller of Exam	37400-67000+10000	1	1	0
5	TPO	37400-67000 + 10000	1	0	1
6	Librarian	37400-67000+10000	1	0	1
7	Dy. Registrar	15600-39100+7600	6	3	3
8	Workshop Supdt.	15600-39100+7600	1	1	0
9	System Manager	15600-39100+7600	1	0	1
10	Asstt. Librarian	15600-39100+6000	1	1	0
11	Executive Engineer (Civil)	15600-39100+6000	1	0	1
12	Assistant Registrar	15600-39100+ 5400	6	4	2
13	Asstt. Director Sports	15600-39100+5400	1	0	1
14	Medical Officer	9300-34800+5400	1	1	0
15	HOS	9300-34800+5400	7	7	0
16	System Analyst cum Programmer	9300-34800+5400	1	1	0

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17	Public Relation Officer	9300-34800+5400	1	1	0
18	SDE (Civil)	9300-34800+5400	1	1	0
19	Assistant Law Officer	9300-34800+4600	1	1	0
20	Sr. Instructor	9300-34800+4200	8	8	0
21	Superintendent	9300-34800+4200	8	4	4
22	PS to VC	9300-34800+4200	1	0	1
23	Dy. Supdt	9300-34800+ 4000	12	0	12
24	PA	9300-34800+ 4000	3	3	0
25	Accountant	9300-34800+ 3600	1	0	1
26	J.E (Electrical)	9300-34800+ 4000	1	1	0
27	J.E (Civil)	9300-34800+ 4000	1	1	0
28	Assistant	9300-34800+ 3600	21	18	3
29	Cashier	9300-34800+3600	1	1	0
30	Nurse	9300-34800+4200	1	1	0
31	Instructors	9300-34800+3600	16	14	2
32	Technician	9300-34800+ 3600	8	3	5
33	Lab Technician	9300-34800+3600	3	2	1
34	Sr. Stenographer	9300-34800+ 3600	5	5	0
35	Dispenser	9300-34800+ 3600	1	1	0
36	Sr. Storekeeper	9300-34800+ 3600	1	0	1
37	Jr. Stenographer	5200-20200+ 2400	7	1	6
38	Electrician	5200-20200+ 2400	3	3	0
39	Electrician- Gr-I	9300-34800+2400	1	1	0
40	Driver	5200-20200+ 2400	2	2	0
41	Lineman	5200-20200+2400	1	0	1
42	Plumber Gr.II	5200-20200+2400	1	1	0
43	Library Attendant cum Restorer	5200-20200+1900	1	1	0
44	Lab Assistant	5200-20200+1900	14	10	4
45	Library counter clerk	5200-20200+1900	3	2	1
46	Clerk	5200-20200+ 1900	38	23	15
47	Storekeeper	5200-20200+1900	1	0	1
48	Carpenter	5200-20200+ 1900	1	1	0
49	Matron	5200-20200+1900	1	0	1
50	Generator Operator	5200-20200+1900	1	1	0
51	Male Dispensary Attendant	4440-7440+ 1400	1	0	1
52	Peon	4440-7440+ 1300	14	9	5
53	Helper/ Attendant	4440-7440+ 1300	14	9	5
54	Lab Attendant	4440-7440+ 1300	9	0	9





55	Medical Officer (Part Time) Male	20,000/- pm consolidated	1	0	1
56	Medical Officer (Part Time) Female	20,000/- pm consolidated	1	0	1
<b>TOTAL (AIDED)</b>			<b>242</b>	<b>150</b>	<b>92</b>

**NON-TEACHING/ ADMINISTRATIVE/ TECHNICAL STAFF (UNDER SFS) POSTS**

Sr. No.	Name of Post	Pay Band + Grade Pay (Rs.)	No. of Post sanctioned by FD	No. of post filled in	No. of Post lying vacant
1.	Assistant Library Professional	9300-34800+3600	01 (SFS)	01	00
2.	Library Counter Clerk	5200-20200+ 1900	03 (SFS)	00	03
3.	HOS (SFS)	9300-34800+5400	02 (SFS)	01	01
4.	Sr. Instructor (SFS)	9300-34800+4200	02 (SFS)	01	01
5.	Instructor (SFS)	9300-34800+3600	02 (SFS)	0	02
6.	Technician (SFS)	9300-34800+3600	02 (SFS)	00	02
7.	Data Entry Operator	5200-20200+ 1900	04 (SFS)	02	02
<b>Total</b>			<b>16</b>	<b>05</b>	<b>11</b>

**NON-TEACHING STAFF (REGULAR)**

Sr. No.	Name	Designation	Date of Joining
1.	Prof. S.K. Tomar	Vice Chancellor	22.02.2022
2.	Dr. Sunil Kumar Garg	Registrar	06.09.2019
3.	Dr. Rajiv Kumar Singh	Controller of Examinations	01.03.2014
4.	Sh. Ravi Kumar Sharma	Senior Account Officer (on deputation against Dy. Registrar post)	17.02.2021
5.	Dr. Meha Sharma	Dy. Registrar	09.09.2019
6.	Sh. Manish Gupta	Dy. Registrar	11.09.2019
7.	Dr. Ankur Sharma	Medical Officer	08.02.2017
8.	Sh. Sachin Gupta	Asstt. Registrar	24.11.2016
9.	Ms. Jyoti Mor	Asstt. Registrar	30.10.2019
10.	Sh. Vishal Kumar	Asstt. Registrar	30.10.2019
11.	Sh. Gaurav Garg	Asstt. Registrar	30.10.2019
12.	Sh. P.N. Bajpai	Assistant Librarian	28.03.2006
13.	Sh. Ankit Pannu	System Analyst Cum Programmer	27.11.2018
14.	Smt. Renu Chawla	Personal Assistant	20.03.1986
15.	Sh. Dinesh Arora	Personal Assistant	17.11.1989
16.	Sh. Satya Pal Kalyan	Personal Assistant	30.04.1993



17.	Ms. Richa Rani	Sr. Stenographer	04.12.2013
18.	Sh. A.K. Sharma	SDE (Civil)	23.12.1994
19.	Sh. Om Prakash	JE (Electrical)	07.03.2008
20.	Sh. Tulsi Ram Chauhan	JE (Civil)	16.07.2014
21.	Smt. Renu Dagar	Asstt. Law Officer	11.07.2014
22.	Sh. Jitender Singh Yadav	Public Relation Officer	31.07.2014
23.	Ms. Sarita Jain	Nurse	05.08.2014
24.	Sh. Sanjay Singh	Superintendent	14.01.2013
25.	Sh. Sharad Fuloria	Superintendent	28.11.2013
26.	Ms. Arti Singh	Superintendent	26.11.2013
27.	Sh. Jogender Singh Gaud	Superintendent	05.12.2012
28.	Sh. Abhinav	Assistant	19.12.2016
29.	Sh. Saurabh Chaudhary	Assistant	17.01.2013
30.	Ms. Anuradha	Assistant	09.11.2012
31.	Mr. Naresh Kumar	Assistant	09.11.2012
32.	Ms. Lalita Kumari	Assistant	08.11.2012
33.	Ms. Jyoti Gaur	Assistant	09.11.2012
34.	Sh. Shishupal Kesri	Assistant	09.11.2012
35.	Mr. Mahender Saini	Assistant	09.11.2012
36.	Sh. Jaswant	Assistant	25.07.2014
37.	Sh. Mohit Sharma	Assistant	25.07.2014
38.	Ms. Sandhya Jaiswar	Assistant	24.01.2013
39.	Sh. Rajdeep	Assistant	01.08.2014
40.	Sh. Parvinder Kumar Ranga	Assistant	09.08.2019
41.	Sh. Yash Chauhan	Assistant	09.08.2019
42.	Sh. Sushil Kumar	Assistant	20.08.2019
43.	Sh. Raj Kumar	Assistant	29.11.2019
44.	Mr. Hem Singh	Assistant	24.01.2013
45.	Sh. Parmod Kumar	Assistant	01.08.2014
46.	Sh. Ankur Gupta	Cashier	28.07.2016
47.	Ms. Seema Sharma	Sr. Steno	15.01.2013
48.	Smt. Sunita	Sr. Steno	18.07.2014
49.	Sh. Rajeev Sharma	Sr. Steno	05.02.2013
50.	Sh. Prince	Sr. Steno	02.08.2016
51.	Ms. Sakshi	Jr. Steno	07.08.2019
52.	Sh. Ankur Bhushan Goyal	Dispenser	06.06.2012



53.	Sh. Balwan Singh	Clerk	06.11.1987
54.	Sh. Shiv Raj	Clerk	11.03.1991
55.	Mr. Jitender	Clerk	27.09.2002
56.	Mr. Sanjay Mishra	Clerk	07.08.2006
57.	Sh. Navdeep Singh	Clerk	07.09.2018
58.	Ms. Pargya Rashmi	Clerk	07.09.2018
59.	Sh. Kishan Singh	Clerk	06.08.2019
60.	Sh. Parveen Kumar	Clerk	07.08.2019
61.	Sh. Narottam Vats	Clerk	08.08.2019
62.	Sh. Bharat Singh	Clerk	08.08.2019
63.	Sh. Sonu Sagar	Clerk	09.08.2019
64.	Sh. Jitesh	Clerk	19.09.2019
65.	Sh. Puneet	Clerk	09.08.2019
66.	Sh. Kishan Dass	Clerk	09.08.2019
67.	Sh. Chander Shekher	Clerk	09.08.2019
68.	Sh. Amarjeet Singh	Clerk	13.08.2019
69.	Sh. Devender Kumar Sharma	Clerk	13.08.2019
70.	Sh. Mahesh Kumar	Clerk	14.08.2019
71.	Sh. Sawan Kumar Sah	Clerk	13.09.2019
72.	Sh. Satish Kumar	Clerk	18.09.2019
73.	Sh. Sukhvinder	Clerk	02.12.2019
74.	Sh. Parvesh Thakur	Clerk	03.12.2019
75.	Ms. Sapna	Clerk	26.05.2020
76.	Sh. Avnish Kumar Gaur	Lab Technician	04.08.2014
77.	Ms. Savita Devi	Lab Technician	08.09.2014
78.	Ms. Suman Sharma	Lab Assistant	06.08.2019
79.	Ms. Ankita	Lab Assistant	07.08.2019
80.	Sh. Deepak Rawat	Lab Assistant	07.08.2019
81.	Ms. Sarita	Lab Assistant	07.08.2019
82.	Sh. Jawahar Lal	Lab Assistant	08.08.2019
83.	Sh. Sachin Sharma	Lab Assistant	08.08.2019
84.	Sh. Virender Singh	Lab Assistant	09.08.2019
85.	Sh. Vinod Kumar	Lab Assistant	09.08.2019
86.	Sh. Naveen Kumar Yadav	Lab Assistant	29.08.2019
87.	Sh. Krishan Kumar	Lab Assistant	05.12.2019
88.	Sh. Bhagwat Dayal	Electrician	14.03.2012
89.	Sh. Ashok Kumar	Electrician	14.03.2012
90.	Sh. Anil Kumar	Electrician	19.11.2012
91.	Sh. Chand Kishore	Electrician Grade-II	11.07.2014



92.	Sh. Ram Niwas	Driver	05.03.1997
93.	Sh. Jagdish Sharma	Driver	15.03.2012
94.	Sh. Tipu Singh	Plumber	11.07.2014
95.	Sh. Bijender	Carpenter	13.08.2012
96.	Ms. Sadhna Bajpai	Library Counter Clerk	21.01.2008
97.	Sh. Saurabh Dixit	Library Counter Clerk	05.09.2018
98.	Ms. Pooja	Library Attendant Cum Restorer	12.09.2018
99.	Sh. Avnish Kumar Sharma	Generator Operator	14.07.2014
100.	Mr. Naresh Pahadia	Peon	13.03.2012
101.	Mr. Heera Lal Prajapat	Peon	12.03.2012
102.	Mr. Raj Kumar	Peon	12.03.2012
103.	Sh. Mohd. Sakir	Peon	22.03.2012
104.	Mr. Jagbir Singh	Peon	20.03.2012
105.	Mr. Ram Prakash	Peon	19.03.2012
106.	Mr. Satbir	Peon	20.03.2012
107.	Mr. Satish Chand Parewa	Peon	20.03.2012
108.	Sh. Mohit Kumar	Peon	25.11.2013
109.	Mr. Mahabir Singh	H/Attendant	17.11.1994
110.	Mr. Rajbir	H/Attendant	01.04.1998
111.	Mr. Jang Bahadur Singh	H/Attendant	04.06.2001
112.	Mr. Satish Kumar	H/Attendant	22.10.1996
113.	Mr. Pappi	H/Attendant	05.04.1990
114.	Mr. Varun	H/Attendant	21.03.2012
115.	Mr. Kailash	H/Attendant	25.07.2014
116.	Mr. Jai Kishan Verma	H/Attendant	25.07.2014
117.	Mr. Bishan Pal	H/Attendant	09.11.1987



## WORKSHOP STAFF (REGULAR)

Sr.No.	Name	Designation	Date of Joining
1.	Sh. Vivek Sharma	Workshop Superintendent	06.02.2017
2.	Sh. Manmohan Kakkar	Head of Section (RAC)	10.08.2006
3.	Sh. Lalit Mohan	Head of Section (ECE)	15.07.1994
4.	Dr. Dharam Vir	Head of Section (EIC)	13.07.1992
5.	Sh. Satpal	Head of Section (GEW)	18.08.2006
6.	Sh. Ashish Pal	Head of Section (FWSMT)	29.01.2008
7.	Sh. Mukesh Kumar Gupta	Head of Section (CE)	29.09.2006
8.	Sh. Atul Sharma	Head of Section (M/Shop)	12.04.2012
9.	Mrs. Kusum Arora	Sr. Instructor	16.10.2006
10.	Dr. Mukesh Kumar Garg	Sr. Instructor	19.10.1993
11.	Sh. Pawan Kumar	Sr. Instructor	26.03.2012
12.	Sh. Sunder Singh	Sr. Instructor	17.08.2006
13.	Sh. Rahish Kumar	Sr. Instructor	15.02.2008
14.	Sh. Sulender	Sr. Instructor	04.08.2006
15.	Sh. Mukesh Kumar	Sr. Instructor	06.10.2006
16.	Sh. Bhagat Singh	Sr. Instructor	18.09.2006
17.	Mrs. Dipika Nayak	Instructor	25.01.2008
18.	Sh. Sanjay Kumar	Instructor	23.01.2008
19.	Sh. Sanjay Upadhyay	Instructor	08.02.2008
20.	Sh. Sanjay Kumar	Instructor	29.01.2008
21.	Sh. UdaiNarain Singh Kushwaha	Instructor	09.04.2012
22.	Sh. Mahinder	Instructor	03.08.2006
23.	Sh. Vijay Kumar	Instructor	02.08.2006
24.	Mrs. Poulami Jana	Instructor	01.02.2008
25.	Ms. LavitaVirmani	Instructor	11.07.2014
26.	Sh. Suresh Kumar	Instructor	01.02.2008
27.	Sh. Puran Lal	Instructor	08.07.2013
28.	Sh. Fateh Singh	Instructor	03.04.2012
29.	Sh. Krishan Kumar	Instructor	11.07.2014
30.	Sh. Krishan Bhardwaj	Instructor	08.07.2013
31.	Sh. Baij Nath	Technician	09.07.2013
32.	Sh. Varinder Singh	Technician	11.07.2014
33.	Sh. Ram Avtar	Technician	02.08.2006



**NON-TEACHING & WORKSHOP STAFF (UNDER SFS) AS ON 31.07.2022**

<b>Sr.No.</b>	<b>Name</b>	<b>Designation</b>	<b>Date of Joining</b>	<b>Remarks</b>
1.	Sh. Jitender Kumar	HOS (IT)	26.03.2012	Tenure
2.	Sh. Mohan Singh	Sr. Instructor (IT)	26.03.2012	Tenure
3.	Mr. Ashwini Manchanda	DEO	08.11.2012	Tenure
4.	Mr. Jaswant Pahadia	DEO	07.10.2013	Tenure
5.	Ms. Hema Singh	Asstt. Library Professional	15.10.2012	Tenure



## **RESEARCH ACTIVITIES**



## RESEARCH INITIATIVES AND COURSES

### 1. INTRODUCTION

Research and Development (R&D) section oversees the research related activities of the University to promote research, innovation & entrepreneurship as well as ensure that the outcomes of the same benefit the society. Major objectives of R&D section can be summarised as

- i. To explore technological development opportunities in common application areas for the welfare of the people of our country.
- ii. To encourage and incentivize faculty members of the university for research publications in SCI and Scopus Index or other equivalent peer-reviewed / reputed/ prestigious indexed journals.
- iii. To organize research promotion events like summits, conferences, seminars, workshops, expert lectures and panel discussion through talks with eminent personalities from reputed institutions and industries etc.
- iv. To motivate faculty members, research scholars, staff and students to apply for patent(s) and also encourage to present research papers in National and International conferences/workshops.
- v. To provide appropriate facilities and infrastructure for the advancement of research.
- vi. To take Initiatives for signing MoU's with reputed national/international institutions and industries for collaborative consultancy and research projects, etc.
- vii. To identify the technical problems faced by the industry and find effective solutions for the same through research projects and consultancy work, etc.

### 2. CONSTITUTION

Sr. No.	Name and Designation	Responsibility
1.	Dr. Naresh Chauhan, Professor	Director
2.	Dr. Rajeev Kumar Saha, Assistant Professor	Deputy Director
3.	Dr. C.K.Nagpal, Professor	Incharge ( Policies)
4.	Dr. Maneesha Garg, Associate Professor	Member
5.	Dr. Sunil, Assistant Professor	Member
6.	Dr. Sonia Hooda, Assistant Professor	Member
7.	Dr. Harish Kumar, Associate Professor	Incharge (Research Programs)
8.	Dr. Preeti, Assistant Professor	Member
9.	Dr. Arun Kumar, Assistant Professor	Member
10.	Dr. Vedpal, Assistant Professor	Member
11.	Sh. Prashant, Assistant Professor	Member
12.	Dr. Sakshi, Assistant Professor	Member
13.	Dr. Renu, Assistant Professor	Member
14.	Dr. Rashmi, Assistant Professor	Incharge(Collaboration and Industry linkage, Consultancy)
15.	Dr. Jyotsana, Assistant Professor	Member
16.	Dr. Sangeeta, Assistant Professor	Member
17.	Sh. Piyush, Assistant Professor	Member
18.	Ms. Shikha, Assistant Professor	Member
19.	Ms. Renu Dagar, ALO	Member
20.	Dr. Ravi Kumar, Associate Professor	Incharge( Research Infrastructure and Finance)
21.	Dr. Somvir Bajar, Assistant Professor	Member





22.	Dr. Payal, Assistant Professor	Member
23.	Sh. Yogesh Maurya, Assistant Professor	Member
24.	Dr. Sanjeev Goel, Associate Professor	Incharge (IPR, Innovation and Startup/Incubation)
25.	Dr. Sapna, Assistant Professor	Member
26.	Dr. Rashmi Chawla, Assistant Professor	Member
27.	Dr. Krishan Verma, Assistant Professor	Member
28.	Dr. Ashlesha, Assistant Professor	Member
29.	Dr. Neha, Assistant Professor	Member
30.	Dr. Yogendra Arya, Associate Professor	Incharge( Research Proposals)
31.	Dr. Anurag Prakash Sunda, Assistant Professor	Member
32.	Dr. Deepansh, Assistant Professor	Member
33.	Dr. Shefali Dixit, Assistant Professor	Member
34.	Dr. Smita, Assistant Professor	Member
35.	Dr. Lalit Mohan, Assistant Professor	Member
36.	Dr. Shailender, Associate Professor	Incharge (Research Information & Dissemination)
37.	Dr. Poonam, Professor	Member
38.	Dr. Deepika, Assistant Professor	Member
39.	Dr. Umesh, Assistant Professor	Member
40.	Ms. Manju, Assistant Professor	Member
41.	Dr. Kakoli Dutt, Associate Professor	Incharge (Research Promotion)
42.	Dr. Sita Ram, Assistant Professor	Member
43.	Dr. Shailza, Assistant Professor	Member
44.	Dr. Parveen Kumar, Assistant Professor	Member
45.	Dr.Sonia, Associate Professor	Incharge(Research Events)
46.	Dr. Nobel Tomar, Assistant Professor	Member
47.	Dr. Rewa, Assistant Professor	Member
48.	Dr. Arpita, Assistant Professor	Member
49.	Dr. Anuj, Assistant Professor	Incharge(Legal Matters and Consolidation)
50.	Dr. Shruti, Assistant Professor	Member
51.	Dr. Reena Grewal, Assistant Professor	Member
52.	Dr. Parveen, Assistant Professor	Member
53.	Ms. Renu Dagar, ALO	Member

**3. PROGRAM-WISE TOTAL PH.D. ENROLMENT AND ADMISSIONS DURING THE YEAR 2021-22**

Sr. No.	Ph.D. Program	No. of admissions
1.	Ph.D. (Chemistry)	5
2.	Ph.D. (Computer Engineering)	11
3.	Ph.D. (Civil Engineering)	1
4.	Ph.D. (Electrical Engineering)	1
5.	Ph.D. (Electronics Engg.)	2
6.	Ph.D. (Environmental Science)	1
7.	Ph.D. (Management)	5



8.	Ph.D. (Mechanical)	8
9.	Ph.D. (Physics)	4
10.	Ph.D. (Interdisciplinary)	1

**4. DETAILS OF RESEARCH AWARDS AND DISTRIBUTION OF SEED MONEY DURING THE YEAR 2020-21 SANCTION TO THE FACULTY MEMBERS ON DTD 14/07/2021 (F.Y 2021-22)**

Sr. No.	Seed Money Awarded to	Department	Title of project	Amount of Seed Money
1.	Dr. Anurag Prakash	Chemistry	Atomistic stimulations of biodegradable betaine-based ionic liquids and their polymer composite for energy and environmental applications	Rs.2 lakh
2.	Dr. Ravi Kumar	Chemistry	Diaryliodonium salts as efficient Lewis Acid organocatalysts	Rs.2 lakh
3.	Dr. Vinod Kumar	Chemistry	Excited State Proton Transfer Within Ionic Liquid Based Media	Rs.2 lakh
4.	Dr. Somvir Bajar	EVS	Leachate Characterization and Assessment of its Impact on Groundwater Quality in the Surroundings of Bandwari Landfill site	Rs.2 lakh
5.	Dr. Navish Kataria	EVS	Preparation of Green Nanomaterials for the removal of emerging contaminants (Phenol and Bisphenol-A) from water	Rs.2 lakh
6.	Dr. Vishal Puri	Civil Engg.	Numerical Analysis of Bamboo Reinforced Concrete Prefabricated Wall	Rs.2 lakh
7.	Dr. Arun Kumar	Physics	Tuning of Piezoelectric PVDF/MWCNT/TIO <sub>2</sub> Hybrid Nanocomposite Thin Films For enhance Gas Sensing	Rs.2 lakh
8.	Dr. Parmod Kumar	Physics	Metal Oxide Based Nanocomposites for the Removal of Harmful Organic Dyes from Waste Water via Photocatalysis Approach	Rs.2 lakh
9.	Dr. Yogita	Physics	Study of Local Surface Potential and Polarization Properties at the Matrix/Particle Interface in Ferroelectric Nanocomposites	Rs.2 lakh



5. EVENTS / ACTIVITIES DURING THE YEAR 2021-22

Sr. No.	Name of Activity	Date	Number of Participant	
			Male	Female
1.	Workshop on Research Methodology (Research for Resurgence Anandshala)	23.07.2021	42	48
2.	Workshop on Awareness and Training on Intellectual Property	29.04.2022	22	21
3.	Workshop on Latex	13.05.2022	8	10

6. ACHIEVEMENTS (IF ANY)

1. Seed Money of worth Rs. 18 lakhs awarded to 9 faculty members of the University
2. Rs.11,23,076/- awarded to research scholars & faculty members for Research Publication Cash Award

7. PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE CELL (01/07/2021 TO 30/06/2022)

**Workshop on Research Methodology (Research for Resurgence Anandshala)**

J. C. Bose University of Science and Technology, YMCA, Faridabad

In Collaboration with Research For Resurgence Foundation (RFRF) organizes **Workshop on Research Methodology** entitled **Research for Resurgence Anandshala** 23<sup>rd</sup> – 24<sup>th</sup> July 2021

**PATRON:** Prof. Dinanath Kumar, Vice-Chancellor, J.C. Bose UST, YMCA, Faridabad

**CO-ORDINATOR:** Dr. Sushil Kumar Singh, J.C. Bose UST, YMCA, Faridabad

**Advisor:** Prof. Rajesh Kt. Ahuja, Dean (R&D)

**Convener:** Dr. Rajesh Kt. Ahuja, Dean (R&D)

**Coordinator:** Dr. Shilpa Jais, Coordinator (R&D), Dr. Babita Kataria, Asst. Prof (R&D)

**Keynote Speaker:** Prof. (Dr.) Rajesh Bishwakarma, Director General, Research for Resurgence Foundation, National Scientist & Inventor, CTR Director, NEREP, Nagpur

**Expert Speakers:** Prof. Shreepad Karmakar, Professor, Department of Electrical Engineering, IIT Madras; Prof. Ashish Pandey, Associate Professor, J.J. Malviya School of Management, IIT, Bombay

**Deliberations on:** Research Methodology, Questioning for Invention, Creative and Useful Research, Difference between Science, Invention, Innovation and Research, Funding, Commercialization and Management Skills for Research, Role of Intellectual Property in Research and Innovation, Impact of Research

**Registration Link:** <https://forms.gle/4821849Yh4v8Q8RS>

**e-certificates for participants attending all sessions**

Organized by: **Research & Development Section**

**NIPAM WEBINAR**  
under Azaadi Ka Amrit Mahotsav

Organized by: J.C. BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, YMCA, FARIDABAD (HARYANA)

**AWAWARENESS AND TRAINING ON INTELLECTUAL PROPERTY**

Date: 29.04.2022 | Time: 3.00 PM onwards

In collaboration with NIPAM (National Intellectual Property Awareness Mission) Department of Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, Government of India

**SPEAKER:** SHRI MD. ATIQULLAH, Assistant Secretary of Patent and Design, Dept. of Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, Govt. of India

**Register Here:** <https://forms.gle/4821849Yh4v8Q8RS>

**Join us on Google Meet:** <https://meet.google.com/vfw-pwxy-usa>

For Information, Contact: DR. RAJESH KUMAR SINGH (98119 21584), Coordinator and SP-DC, Deputy Dean (R & D), J.C. Bose UST

Workshop on Awareness and Training on Intellectual Property

**J.C. BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, YMCA, FARIDABAD**

**Workshop on LATEX**

Venue: University Computer Centre  
12<sup>th</sup> May, 2022; 10.00 AM onwards

**Expert Speaker:** Dr. Suraj Goyal, Asst. Prof., Dept. of Mathematics, J.C. Bose UST, YMCA

**Patron:** Prof. S.K. Tomar, Pro-Vice-Chancellor, J.C. Bose UST, YMCA

**Co-Patron:** Prof. Rajesh Kt. Ahuja, Dean (R&D), J.C. Bose UST, YMCA; Prof. Anushah Dutt, J.C. Bose UST, YMCA

**Convener:** Dr. P.N. Bagal, J.C. Bose UST, YMCA

**Program Coordinator:** Dr. Rajesh Kumar Saha, J.C. Bose UST, YMCA

**Participants:** Faculty Members and Research Scholars of University

All participants are required to bring their own laptop. (If pre-downloaded software needed (<https://tug.ctan.org>) and texlive (<https://www.tug.ctan.org>))

Organized by: **Pt. Deen Dayal Upadhyay Central Library, J.C. Bose UST, YMCA, Faridabad**

Workshop on LATEX



## CANDIDATES ADMITTED IN ODD SEMESTER 2021-22

Roll no	Student Name	Course Name
21001901001	Akanshi Gupta	Chemistry (901)
21001901002	Arpita	Chemistry (901)
21001901003	Bharti	Chemistry (901)
21001901005	Preeti Kasana	Chemistry (901)
21001901006	Sangeeta	Chemistry (901)
21001913001	Vivek Rawat	Civil Engineering(913)
21001902001	Juhi Pruthi	Computer Engineering (902)
21001902002	Yogesh	Computer Engineering (902)
21001902003	Abhay Kansal	Computer Engineering(902)
21001902004	Archana Das	Computer Engineering(902)
21001902005	Karuna Kaushik	Computer Engineering(902)
21001902006	Piyoush Kumar Gupta	Computer Engineering(902)
21001902007	Pushpa Bharti Singh	Computer Engineering(902)
21001902008	Renu Singh	Computer Engineering(902)
21001902009	Shalu	Computer Engineering(902)
21001902010	Shikha Arora	Computer Engineering(902)
21001902011	Vijay Kumar	Computer Engineering(902)
21001903001	Rupali Sinha	Electrical Engineering(903)
21001904001	Dikshant Sharma	Electronics Engineering(904)
21001904002	Neha Verma	Electronics Engineering(904)
21001906001	Kavita	EVS(906)
21001912001	Ashok Maheshwari	Interdisciplinary(912)
21001909001	Jasleen Kaur	Management(909)
21001909002	Lokesh Yadav	Management(909)
21001909003	Mahesh Kumar	Management(909)
21001909004	Preeti Sharma	Management(909)
21001909005	Vipul Kumar Garg	Management(909)
21001910001	Abhishek Bhardwaj	Mechanical Engineering(910)
21001910002	Janendra Kumar	Mechanical Engineering(910)
21001910003	Manjeet Gujela	Mechanical Engineering(910)
21001910005	Manish Katyal	Mechanical Engineering(910)
21001910006	Rohit	Mechanical Engineering(910)
21001910007	Sanjeev Kumar	Mechanical Engineering(910)
21001910008	Shivam Aggarwal	Mechanical Engineering(910)
21001910010	Vipin Sharma	Mechanical Engineering(910)
21001911001	Anjali	Physics(911)
21001911002	Anu Bala	Physics(911)
21001911003	Kapil Kumar	Physics(911)
21001911004	Renu Dhahiya	Physics (NITTTR Chdg.) (911)



## Ph.D Awarded Students in the year 2021-2022 (July 2021-June 2022)

Sr. No.	Name of the PhD scholar	Name of the Department	Name of the Guide(s)	Title of the thesis	Year of registration of the scholar	Year of PhD awarded	PhD Notification Number	PhD Notification Date
1.	Mr. Subrata Kumar Patra	Mechanical Engineering	Dr. Tilak Raj & Dr. B.B. Arora	Analysis of Energy Efficient Sustainable Manufacturing Systems	2011	2021	41	14.07.2021
2.	Mr. Sushil Kumar	Computer Engineering	Dr. Komal Kumar Bhatia	Design of Novelty Detection Techniques for optimized Search Engine Results	2012	2021	41	14.07.2021
3.	Mr. Vinod Chacko	Physics	Dr. Sonia	Modeling and Optimization of one dimensional Photonic Crystal Waveguides and Devices	2011	2021	41	14.07.2021
4.	Mr. Dushyant Kumar Shukla	Electronics Engineering	Dr. Munish Vashishath & Dr. Tarun Rawat	Some Investigations into Noise Analysis of Electronic Circuits	2011	2021	42	03.08.2021
5.	Ms. Chhaya Grover	Electronics Engineering	Dr. Neelam Turk	Advance Fault Diagnosis of Power-Plant Components using Vibration Signature Analysis	2013	2021	43	24.09.2021
6.	Mr. Sandeep Handa	Mechanical Engineering	Dr. Tilak Raj & Dr. Sandeep Grover	Study of Issues Related to Green Manufacturing	2012	2021	43	24.09.2021
7.	Mr. Suresh Kumar	Mechanical Engineering	Dr. M.L. Aggarwal & Dr.	Stress Evaluation Technique of	2013	2021	44	06.10.2021



			Lakhwinder Singh	Helical Spring with Modified Design Parameters				
8.	Ms. Priyanka	Electronics Engineering	Dr. Neelam Turk & Dr. Ratna Dahiya	Magnetic Field Analysis for Health Monitoring of Induction Motor using Search Coil	2012	2021	44	06.10.2021
9.	Mr. Nitin Panwar	Mechanical Engineering	Dr. Sanjeev Kumar	Development of Advance Maintenance Planning and Resource Allocation System for Industrial Process	2015	2021	45	26.10.2021
10.	Ms. Usha Yadav	Computer Engineering	Dr. Neelam Duhan	A Collaborative Design for Community Based Semantic Information Sharing	2013	2021	45	26.10.2021
11.	Ms. Sonia Setia	Computer Engineering	Dr. Jyoti and Dr. Neelam Duhan	Design of a Semantic Prefetching System for Web using Low Cost Prediction Methods	2013	2021	46	16.11.2021
12.	Ms. Sonam Khera	Electronics Engineering	Dr. Neelam Turk and Dr. Navdeep Kaur, Professor, CSE Deptt., SGGSW University, Fatehgarh Sahib, Punjab	Analysis and Implementation of Energy Efficient Wireless Sensor Networks	2012	2021	46	16.11.2021
13.	Ms. Kalpana	Electronics Engineering	Dr. Neelam Turk	Effects of Time Varying	2012	2021	46	16.11.2021



	Sheokand			and Constant Loads on Effectiveness of Fault Detection Methods of Electrical Machines				
14.	Ms. Nitin Sachdeva	Electronics Engineering	Dr. Munish Vashishath and Dr. P.K. Bansal, Professor & Director, Quest Group of Institutions, Chandigarh	Modeling, Estimation & Reduction of Total Leakage in Scaled CMOS Logic Circuits	2012	2021	46	16.11.2021
15.	Mr. Ritesh Sharma	Mechanical Engineering	Dr. Sanjeev Kumar and Dr. Rajeev Saha	Correlation of Surface Finish and Process Parameters in Laser Sintering Rapid Prototyping Technique	2013	2021	46	16.11.2021
16.	Mr. Prashant Kumar	Electronics Engineering	Dr. Munish Vashishath and Dr. P.K. Bansal, Professor & Director, Quest Group of Institutions, Chandigarh	Analytical Study of MOS Device for Leakage Reduction in Low Power Circuit	2011	2021	47	31.12.2021
17.	Mr. Bhupender Singh	Physics	Dr. Maneesha Garg & Dr. Krishan Kant Gupta	Radioactivity Assessment in Air, Soil and Water Samples in Southern Haryana, India	2017	2021	47	31.12.2021
18.	Ms. Taruna Sharma	Electronics Engineering	Dr. Munish Vashishath and Dr. Rajveer Singh, Assistant	Analysis and Design of Reconfigurable MHD Antenna	2012	2022	48	07.03.2022



			Professor, Electronics & Communication Engg. Deptt., AIT, Delhi (Now posted as Professor, Deptt. Of ECE, NSUT, New Delhi)					
19.	Ms. Shruti Mittal	Computer Engineering	Dr. Chander Kumar Nagpal	Predictive Modeling Techniques using Big Data	2015	2022	48	07.03.2022
20.	Ms. Sunanda Mendiratta	Electronics Engineering	Dr. Neelam Turk & Dr. Dipali Bansal	Analysis of Speech Recognition Systems for Man Machine Interaction	2012	2022	49	05.05.2022
21.	Mr. Kanwar Pal	Mechanical Engineering	Dr. Arvind Kumar Gupta	CFD Modelling for Particulate Flow Through Straight Pipeline	2012	2022	49	05.05.2022
22.	Ms. Anubha Gautam	Electrical Engineering	Dr. P.R.Sharma & Dr. Yogendra Kumar	Congestion Management in Deregulated Power System	2011	2022	49	05.05.2022





## List of Research Projects Granted by the outside agencies in the session 2021-22

Sr. No.	Title of the project	Granted to	Agency	Type	Deptt	Year	Amount
1.	Drishti: An audio Aid to visually Impaired Persons for Obstacle Detection and Route tracking using Image Analytics	Prof. Komal Kumar Bhatia/ Dr. Neelam Duhan	AICTE	Government	CE Department	Jan 2022	3.92
2.	Development of Paani ki Battery to produce green energy to for sustainalbe growth of rural areas	Dr. Anurag Gaur	HSCSIT	Government	Civil Department	Jan-22	17.00
3.	Oxidation Catalysis and synthesis of Covid-19 Drug Candidates/Precursors Iodine incorporated Metal-Organic Framework	Dr. Ravi	HSCSIT	Government	Chemistry Department	Jan-22	18.00
4.	Synthesis of diverse group of growth morphologies of ZnO nano/micro-structures in search of gigantic piezoelectric response and for their practical application in mechanical energy harvesting for the year 2021-22	Dr. Rashi Gupta	AICTE	Government	physics	Jan-22	18.00
5.	Distribution of Natural Uranium in Ground water of NCR Region, India	Dr. Renuka Gupta	BRNS, BARC	Government	EVS Deaprtment	Feb-22	25.00
6.	UGC-BSR Start up grant for newly recruited faculty at Assistant Professors level	Dr.Parmod Kumar	UGC	Government	Physics Department	Jun-22	10.00
7.	UGC-BSR Start up grant for newly recruited faculty at Assistant Professors level	Dr. Navish Kataria	UGC	Government	EVS Department	Jun-22	10.00
8.	UGC-BSR Start up grant for newly recruited faculty at Assistant Professors level	Dr.Yogita	UGC	Government	Physics Department	Jun-22	10.00



9.	UGC-BSR Start up grant for newly recruited faculty at Assistant Professors level	Dr.Anurag Prakash	UGC	Government	Chemistry Department	Jun-22	10.00
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## MoU's Signed by the University during Academic Year 2021-22

Academic Year 2021-22

Number of MoU's Signed=34

1	Aravali College of Engineering & Management, Greater Faridabad, Haryana 121006	09/07/2021	For improving quality parameters under AICTE Margdarshan scheme.
2	Dronocharya College of Engineering, Khentawas, Gurugram, Haryana 123506	09/07/2021	For improving quality parameters under AICTE Margdarshan scheme.
3	DPG institute of Technology & Management, Sector34, Gurugram, Haryana 123506	09/07/2021	For improving quality parameters under AICTE Margdarshan scheme.
4	NGF College of Engineering & Technology, 71st K.M, NH-2, VIII. Aurangabad, Delhi-Mathura Highway, Palwal 121102	09/07/2021	For improving quality parameters under AICTE Margdarshan scheme.
5	St. Andrews Institute of Technology and Management, FarukhNagar, Haryana	09/07/2021	For improving quality parameters under AICTE Margdarshan scheme.
6	Govt. Polytechnic, Sonapat, Rathdhana Road, near ITI Chowk, Sector 1, Sonipat, Haryana 131001	09/07/2021	For improving quality parameters under AICTE Margdarshan scheme.
7	Govt Polytechnic, Manesar, NH8, near NSG & NBRC, Manesar, Gurugram, Haryana 122051	09/07/2021	For improving quality parameters under AICTE Margdarshan scheme.
8	Govt Polytechnic, Jhajjar Jhajjarural, Haryana 124104	09/07/2021	For improving quality parameters under AICTE Margdarshan scheme.
9	IILM, Gurugram, I	13/07/2021	To promote academic and research activities.



	Knowledge Center, Golf Course Rd, IILM Institute, Sector 53, Gurugram, Haryana 122003		
10	Pupilfirst Pvt Ltd, Unit 3, Ground Floor, Vaishnavi Badri, No 48, 5th Main Rd, Jayamahar Extension, Bengaluru, 560046	13/08/2021	AICTE has launched the 'Leadership in Teaching Excellence' program (the "LITE Program"), as a national program to select and equip 100 institutions (50 higher educational institutions and 50 CBSE schools) with leadership in teaching excellence. AICTE selected JCBoseUST and two faculty members for the same.
11	BOSCH Limited, Metro Station, Rishyamook, 85 A, Panchkuian Marg, near Ramkrishna Ashram Marg, Connaught Place, Delhi 110001	29/07/2021	To setup Automation Center in University to provide training to students
12	Aggarwal College, Wing-II, Milk Plant Road, Sector 2 Road, Ballabgarh, Faridabad, Haryana 121004	19/08/2021	To collaborate academic programs in the areas of economic development.
13	RVM CAD Consultants, 5R/5, Third Floor, Behind Saluja Patrol Pump, N.I.T Faridabad (Haryana)	20/08/2021	To provide hands on training and experience on live projects in the field of Automation and Robotics.
14	Chaudhary Devi Lal University, Barnala Rd, Sirsa, Haryana 125055	23/08/2021	To collaborate academic programs in the emerging areas.
15	Indira Gandhi University, Meerpur, Rewari, Haryana	20/08/2021	To collaborate academic programs in the emerging areas.
16	Utopian Dreams India Private Limited, 21 Ankur Apartment Delhi, DL 110092 IN	26/08/2021	To boost internship opportunities for Students.
17	CSIR-National	27/08/2021	To strengthen each other by sharing resources



	Institute of Science, Communication and Policy Research, Dr KS Krishnan Marg, Pusa, New Delhi, Delhi 110012		including libraries, publication, programs and laboratories.
18	AV Automation Gurugram, A V Automation plot no 151 Gali no2 basai industrial area, Haryana 122001	03/09/2021	To boost internship opportunities for Students.
19	Bony Polymers Pvt Ltd, Manesar, Gurugram	03/09/2021	To boost internship opportunities for Students.
20	Advanced Silicons Pvt Ltd, 174, Sector 58, Industrial Area, Faridabad, 121004	03/09/2021	To boost internship opportunities for Students.
21	MV Electrosystems Pvt ltd, F826+867, Block A, DLF Industrial Area, Sector 32, Faridabad, Haryana 121003	03/09/2021	To boost internship opportunities for Students.
22	Prime Electronics Sonapat, Address: Plot No : 220, Electronics Technology Hardware Park, Kundli Ind. Area Phase-V, Sector 56, Sonapat, Haryana 121102	03/09/2021	To boost internship opportunities for Students.
23	Quadrant Cables pvt Ltd Mohali, Address: FP9X+W33, Sahibzada Ajit Singh Nagar, Punjab 140417	03/09/2021	To boost internship opportunities for Students.
24	Bareja Solar and Projects Pvt Ltd, 536 D.S., New Rajendra Nagar, New Delhi, Delhi 110060	06/09/2021	To work on collaboration programs and internship opportunities for Students.
25	Ador Welding Limited, C-116,	07/09/2021	Extension of MoU signed in year 2018



	Industrial Area, Phase 1, Naraina, New Delhi, Delhi		
26	UA Consultants Pvt Ltd, No. 114, near Asian Hospital, Sector 21B, Faridabad, Haryana 121001	09/09/2021	To boost start-up culture in University.
27	Central University of Haryana Mahendergarh	16/09/2021	To collaborate academic programs in the emerging areas.
28	K.L Mehta Dayanand College for Women, BK Chowk, New Industrial Twp 3, New Industrial Town, Faridabad, Haryana 121001	24/09/2021	To jointly organize seminars, workshops, conferences and education programs.
29	NMS Enterprises Limited, UG-9, 48, Hasanpur, I.P Extension, Delhi-92	24/09/2021	To conduct practical trainings, seminars and technical sessions of students to make them industry ready.
30	Indian Oil Corporation Limited, Old, Sector 13, Faridabad, Haryana 121006	30/09/2021	To introduce fellowship scheme to promote research in emerging areas of Science and Technology.
31	Shiksha Sanskriti Uthan Nyas, Saraswati bal Mandir, G-Block, Narayna Vihar, New Delhi	22/10/2021	To start academic programs in collaboration
32	NIILM University, Ambala Road, Kaithal, Haryana	26/10/2021	To collaborate academic programs in the emerging areas.
33	QRG Multispeciality Hospital, Sec 16, Faridabad	30/12/2021	To provide benefits to faculty members and students.
34	Gurugram University, Haryana	30/01/2022	To collaborate academic programs in the emerging areas.

## INTERNATIONAL AFFAIRS CELL

### 1. INTRODUCTION



In the age of globalization, J. C. Bose University of Science & Technology, YMCA, Faridabad has set out International Affairs Cell in an effort to make the university a global study destination in the country and promote intensive academic and research collaboration with foreign HEIs. The cell was established in September 2019 to assist students in acquiring information about the admission process, various programs, fee structure, eligibility, visa requirements, accommodations, and their overall welfare through a unique single-window system. The international affairs cell coordinates its activities in close contact with university leadership, various faculties, and teaching departments.

As per National Education Policy 2020, the various objectives of the cell are as follows:

- I. To coordinate all matters related to supporting foreign students
- II. To disseminate information related to the admission process among prospective foreign students.
- III. To engage the promotional activities and brand-building campaign board.
- IV. Single point of contact for carrying out all collaboration activities with foreign institutions.
- V. Act as a liaison body between the foreign students and sponsoring agency.
- VI. To address the grievances of foreign students in all matters.
- VII. Single point of contact for registration with FRRO/e-FRRO.
- VIII. To facilitate networking with fellow students.
- IX. To extend all possible help to foreign students to adapt to a new cultural environment and make their stay in India comfortable and enriching.
- X. To facilitate international academic and research collaboration.
- XI. To conduct knowledge enrichment sessions for all students, whether domestic or foreign students through international experts.
- XII. To conduct knowledge transfer programs through means of international FDP/STTP.

## 2. CONSTITUTION

Sr. No.	Name and Designation	Responsibility
1.	Dr. Shilpa Sethi, Associate Professor (CA)	Director, IAC
2.	Dr. Rajeev Saha, Assistant Professor (ME)	Deputy Director, IAC
3.	Dr. Mamta Kathuria, Assistant Professor (CA)	Coordinator, IAC

## 3. EVENTS / ACTIVITIES DURING THE YEAR 2021-22

Sr. No.	Name of Activity	Date	Number of Participants	Link to details
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1.	Expert Lecture on “Higher Opportunities in Abroad”	July 28, 2021	457+ 15(Faculty)	<a href="https://jcboseust.ac.in/International_Affairs_Cell/images/events/activity_jamboree_28_july_2021.pdf">https://jcboseust.ac.in/International_Affairs_Cell/images/events/activity_jamboree_28_july_2021.pdf</a>
2.	Foreign Admission 2021-22	April-September 2021	-Supported the Admission branch in all activities related to foreign students admission  - Run Google Adwords and Facebook ads, and contacted prospective leads through e-mail.  - Coordination on ICCR (Indian Council of Cultural Relations) portal  -Design and release foreign student brochure 2021	<a href="https://jcboseust.ac.in/International_Affairs_Cell/images/events/activity_brochure_release_12082021.pdf">https://jcboseust.ac.in/International_Affairs_Cell/images/events/activity_brochure_release_12082021.pdf</a>
3.	MoU with UiT-The Arctic University of Norway	August 25, 2021	26 (Faculty)	<a href="https://jcboseust.ac.in/International_Affairs_Cell/images/events/MoU_UiT_August2021.pdf">https://jcboseust.ac.in/International_Affairs_Cell/images/events/MoU_UiT_August2021.pdf</a>
4.	Expert Lecture on “Relevance of IELTS for Overseas Studies”	October 9, 2021	169+ 12(Faculty)	<a href="https://jcboseust.ac.in/International_Affairs_Cell/images/events/activity_lecture_IELTS_09102021.pdf">https://jcboseust.ac.in/International_Affairs_Cell/images/events/activity_lecture_IELTS_09102021.pdf</a>
5.	Expert Lecture on ‘Education System in Hungary’	April 11, 2022	250+ 5(Faculty)	<a href="https://jcboseust.ac.in/International_Affairs_Cell/images/events/activity_edu_sys_in_hungary_11042022.pdf">https://jcboseust.ac.in/International_Affairs_Cell/images/events/activity_edu_sys_in_hungary_11042022.pdf</a>
6.	International Conference on “Recent development in Electrical and Electronics Engineering”	April 15, 2022 – April 16, 2022		<a href="https://jcboseust.ac.in/dept_electrical/assets/uploads/media/brochure.pdf">https://jcboseust.ac.in/dept_electrical/assets/uploads/media/brochure.pdf</a>

#### 4. ACHIEVEMENTS

1. MoU with UiT the Arctic University of Norway on August 25, 2021.
2. International Conference on “Recent development in Electrical and Electronics Engineering”.





3. Registered with ICCR for admissions of foreign students with scholarships.

**5. GLIMPSES - ACADEMIC ACTIVITIES CONDUCTED BY THE CELL**



MoU with UiT The Arctic University of Norway on August 25, 2021.

**CONVENER**  
Dr. Shipra Sethi

**COORDINATOR**  
Dr. Mamta Kathuria

**ORGANIZING COMMITTEE**  
Dr. Rajeev Saha  
Dr. Sapna Taneja

**FOR MORE INFORMATION**  
Rajeev Lakra  
9999132261

**CLICK TO REGISTER & ATTEND THE WEBINAR ON ZOOM**  
<https://bit.ly/3w5PWVH>

**STUDENTS COORDINATORS**

**EXPERT LECTURE SERIES 2021-2022**  
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International Affairs Cell in association with  
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**JULY 28, 2021(WED)**  
5:00 PM

**Prof. Dinesh Kumar**  
Head of the Division  
Jambore Education Pvt. Ltd.

**Speaker Arun Bhalla**  
Operations Manager  
Jambore Education Pvt. Ltd.

**Dr. Santii Kumar Gang**  
Registrar  
Jambore Education Pvt. Ltd.

Snehal Malhotra	Sandeep Sharma	Anurag
Kartik Kumar	Nupur	Anushka
Gautam Bhalla	Hardik Nagpal	Shubham
Payal Grover	Manav	Twinkle

Expert Lecture on “Higher Education Opportunities in Abroad” (28/07/21)

The screenshot shows a Zoom meeting with a woman in a blue floral top speaking. The Zoom interface shows a 'Participants (12)' list on the right, including names like JAC Kartik Kumar, JAC Snehal Malh..., and JAC Shipra Sethi.

Expert Lecture on “RELEVANCE OF IELTS FOR OVERSEAS STUDIES”(09/10/21)



## **PLACEMENT OF STUDENTS**



## EMPLOYMENT & TRAINING OFFICE

### 1. INTRODUCTION

Employment and Training office is a crucial part of the JC Bose University of Science and Technology that takes care of the Internship and Placements of the students. Our students over many decades have been our flag bearer of innovations creativity, commitment, and excellence in the organisations that they have gone to work for and at times even lead. The team at the Employment and Training office is well equipped to match the requirements of the recruiters with the available talent pool of our graduating students.

### DETAILS OF STAFF

Sr. No.	Name	Designation	Qualification	Working from (DD/MM/YYYY)
1.	Prof. (Dr.) Sanjeev Kumar	Training and Placement Officer	PhD	03.06.2020
2.	Dr. Jyoti Verma	Dy. Training and Placement Officer	PhD	28.10.2020
3.	Dr. Prashant Kumar	Assistant Training and Placement officer	PhD	10.08.2020
4.	Dr. Ashima Sharma	Assistant Training and Placement officer	PhD	25.08.2022
5.	Dr. Rajiv Sindwani	Assistant Training and Placement officer	PhD	07.10.2022
6.	Dr. Preeti Sethi	Assistant Training and Placement officer	PhD	07.10.2022

### PLACEMENT RECORD LAST FIVE YEARS DATA SHEET

Sr. No.	Year	Placement On Campus	Placement Off Campus	Total Placement/ Offer	Placement %	Avg Pkg LPA	Highest Pkg LPA
1.	2021-22*	559	NA	559 (990)	59.49	9.93*	45*
2.	2020-21	417	NA	417 (444)	93.12	7.8	28.75
3.	2019-2020	419	NA	419(443)	94.58	3.78	28.75
4.	2018-19	400	NA	400(442)	90.49	3.82	28.75
5.	2017-18	316	15	331(452)	73.23	3.78	27
6.	2016-17	327	19	343(401)	85.53	4.65	27

### STUDENTS PLACED DURING 2021-22

Sr. No.	Name of Decipline	Course	Undergraduate	Post-Graduate
1.	Engineering	CE/IT	188	16
		EE	41	0
		ECE/EIC	101	1
		ME	94	5



		Civil	16	NA
		CA (BCA/MCA)	6	74
2.	Sciences	Chemistry	01	6
		Physics	00	01
		Maths	03	06
		EVS	02	01
		Life Science	00	12
		Animation	03	00
3.	Management	BBA/MBA	08	39
4.	Arts	MA English	0	03

### PLACEMENT STATISTICS 2022 PASSED OUT BATCH

Sr. No.	Name of Company	No. of offers	Package offered (LPA)	For Branches Visited
1.	Squadstack	1	12-16LPA, 35K	B.Tech.Computer Engineering
2.	Innovaccer, Noida	1	12LPA+2LPA Joining Bonus,35000 Pm	B.Tech.Computer Engineering
3.	Principial Global Services Pvt. Ltd.	1	6 To 8 LPA	B.Tech.Computer Engineering
4.	LiBSys	1	7 LPA	B.Tech.Computer Engineering
5.	GrapeCity	1	6 LPA, 15000 Pm	B.Tech.Information Technology
6.	Travclan	1	35000, 7.5-8.5 LPA	B.Tech.Computer Engineering
7.	InFoedge	1	30k,7.25 LPA	B.Tech.Information Technology
8.	Pure Software	1	20k, 9 LPA	B.Tech.Information Technology
9.	Infogain India Pvt. Ltd.	1	20k, 4 LPA	B.Tech.Computer Engineering
10.	Cogneau (VERDIS)	1	20K, 8 LPA	B.Tech.Electronics & Communication Engineering
11.	Frick India	1	16k,2.25 LPA	B.Tech.Electrical Engineering
12.	Escorts Limitws	1	5 LPA	M.Tech.Mechanical Engineering Manufacturing and Automation Technology
13.	Spade Infotech Pvt. Ltd.	1	15 K,6 LPA	B.Tech.Computer Engineering
14.	National Payment Corporation Of India	1	5-6.85 LPA	B.Tech.Information Technology
15.	Mobikwik	1	10 LPA	B.Tech.Computer Engineering
16.	Jindal Stainless Limited	1	6 LPA	B.Tech.Computer Engineering
17.	Zensar	1	6.5 LPA	B.Tech.Electronics,



				Instrumentation & Control Engineering
18.	Vodafone Intelligent solutions	1	4.75 Lpa	B.Tech.Electrical Engineering
19.	Goldman sanchs	1	100000/PM/17.5 Lpa	B.Tech.Computer Engineering
20.	AdYogi	1	8-10 LPA	B.Tech.Computer Engineering
21.	IDC Technologies	1	22k, 5 LPA	MCA
22.	Indian Oil-adani Gas Pvt. Ltd.	1	5.25 LPA	MBA
23.	To The NEW(NOIDA)	1	6.25 LPA	MBA
24.	RHI Magnesita India Ltd. Kolkata	1	4.5 Lpa	B.Tech.Computer Engineering
25.	SRVA Education	1	4.86 LPA	MBA
26.	Amazon India	1	4414713	B.Tech.Computer Engineering
27.	Infosys	1	3.6 Lpa	M.Tech.Computer Science & Engineering
28.	Brigosha Technologies	1	450000	B.Tech.Electronics & Communication Engineering
29.	Amada (India) Pvt Ltd Technical Center	1	400000	B.Tech.Electrical Engineering
30.	Calyxpod	1	533000	B.Tech.Information Technology
31.	Abronics IT services Pvt. Ltd	1	240000	B.Tech.Information Technology
32.	DE Shaw&CO Pvt. Ltd.	1	2400000	B.Tech.Computer Engineering
33.	BNY MelLon	1	1300000	B.Tech.Computer Engineering
34.	Pawn(Bharatfirst Technologies Ltd.)	1	1200000	B.Tech.Computer Engineering
35.	Uber Technologies Inc	1	6000000	B.Tech.Computer Engineering
36.	Housing.Com	1	1300000	B.Tech.Computer Engineering
37.	Infosys Limited	1	300000	B.Tech.Computer Engineering
38.	Cadence Design Systems (India) Private Limited	1	480000	B.Tech.Electronics & Communication Engineering
39.	Motherson Technology Services Ltd.	1	350005	B.Tech.Electronics, Instrumentation & Control Engineering
40.	Lutron Electronics	1	398916	B.Tech.Electronics, Instrumentation & Control Engineering



41.	Fidelity International	1	800000	B.Tech.Electronics, Instrumentation & Control Engineering
42.	lumax industries ltd	1	310000	B.Tech.Electrical Engineering
43.	PUBHUB TECH INDIA PRIVATE LIMITED	1	550000	MCA
44.	BSES Rajdhani Power Limited	1	400000	B.Tech.Electrical Engineering
45.	L&T Construction	1	657936	B.Tech.Mechanical Engineering
46.	JSW MI Steel Service Center PVT LTD.	1	301140	B.Tech.Mechanical Engineering
47.	Globe Capacitor Pvt Ltd	2	360000	B.Tech.(EE) Electrical 007 Electrical Engineering
48.	Unthinkable	2	5 LPA,20k	B.Tech.Information Technology
49.	KEKA, HYDERABAD	2	6 TO 7 LPA	B.Tech.Electronics & Communication Engineering
50.	Learning Routes Pvt. Ltd.	2	5.34 LPA	B.Tech.Civil Engineering
51.	United lex	2	7 lpa	B.Tech.Electronics & Communication Engineering
52.	IFB Industries	2	4.5 LPA	B.Tech.Electronics, Instrumentation & Control Engineering
53.	Trademo	2	30k,14 LPA	B.Tech.Computer Engineering
54.	Kelton Tech.	2	12k,4LPA	B.Tech.Computer Engineering
55.	Blue Star Limited	2	5.56 LPA	B.Tech.Mechanical Engineering
56.	HMCMM Auto Limited	2	10k,3.75 LPA	B.Tech.Electronics & Communication Engineering
57.	Honda Cars India Ltd	2	6 LPA	B.Tech.Information Technology
58.	Square Yards	2	4.5 LPA	MBA
59.	Lixil Window Systems Private Ltd.	2	474951 RS	B.Tech.Civil Engineering
60.	RedDoorz(Noida Sec0125)	2	4 TO 5 LPA	MCA
61.	Denso India	2	4 LPA	B.Tech.Mechanical Engineering
62.	Luminous Power Technologies	2	6 LPA	MBA
63.	Maruti Suzuki India pvt. Ltd	2	8.40 LPA	B.Tech.Mechanical Engineering



64.	EFKON India Pvt Ltd	2	3-4 LPA	B.Tech.Electronics, Instrumentation & Control Engineering
65.	Walmart Global Technology Services India	2	1800000	B.Tech.Computer Engineering
66.	HDFC BANK	2	350000	BBA
67.	Studique.com	2	400000	BCA
68.	Josh Technology Group, Gurugram	3	10.25 LPA, 20K	B.Tech.Electronics & Communication Engineering
69.	PrepBytes	3	25k, 7 LPA	B.Tech.Computer Engineering
70.	ZSCALER	3	6 LPA + 2 Lac Sign-On Bonus + RSU's worth of 8000 USD, Stipend- 30k per month	B.Tech.Computer Engineering
71.	TT Consultants	3	10k/ 4.50 LPA	B.Tech.Electronics & Communication Engineering
72.	BNY Mellon Technolgy	3	60 K, 17.34 LPA	B.Tech.Computer Engineering
73.	Azcom- Infosolutions	3	25k,6Lpa	B.Tech.Computer Engineering
74.	L&T Technology	3	10k,4 LPA	B.Tech.Electrical Engineering
75.	ForceBolt	3	15k,3.5 LPA	MCA
76.	Itsacheckmate INC	3	35k,7.5 LPA	B.Tech.Computer Engineering
77.	Harman Connected Services	3	5.5 LPA	B.Tech.Electronics, Instrumentation & Control Engineering
78.	SMS group	3	5.5 LPA	MCA
79.	Media.net software services	3	1LPA,37.6 LPA	B.Tech.Mechanical Engineering
80.	Honda Cars India LTd (Tapukara)	3	6 LPA	B.Tech.Mechanical Engineering
81.	Yhills Edutech Noida	3	18K, 10+6.5 LPA(Afte Performace)	MBA
82.	ANDRITZ HYDRO Private Limited	3	22k (after Confirmation 4.2 LPA)	B.Tech.Electrical Engineering
83.	HCL Technologies	3	600000	B.Tech.Electronics & Communication Engineering
84.	IMPERIAL AUTO INDUSTRIES LIMITED, FARIDABAD	3	350400	MBA
85.	Nokia Networks	3	991742	B.Tech.Electronics & Communication Engineering



86.	BCH	3	450000	B.Tech.Electrical Engineering
87.	Airtel	4	10 LPA	B.Tech.Electronics & Communication Engineering
88.	Investwell	4	10,000/ 4 LPA	B.Tech.Information Technology
89.	Lutron India	4	15k, 3.9 LPA	B.Tech.Electronics, Instrumentation & Control Engineering
90.	India Mart	4	4 LPA	MBA
91.	Synoriq	4	4.5 LPA	B.Tech.Electronics, Instrumentation & Control Engineering
92.	Soti India	4	7 LPA	B.Tech.Computer Engineering
93.	Tecumseh Products India Private Limited	4	17.5k, 5.5 LPA	B.Tech.Mechanical Engineering
94.	Edelweiss General Insurance Company Limited	4	35k,6LPA	B.Tech.Computer Engineering
95.	L & T Technology	4	20K,6.33 LPA	M.Tech.Computer Science & Engineering
96.	Steel Strips Wheels Ltd.	4	5.04 LPA	B.Tech.Mechanical Engineering
97.	NextGen Ventures	4	25k	MBA
98.	Motherson Innovations Tech Limited	4	550000	B.Tech.Electronics & Communication Engineering
99.	Bennett Coieman	4	700000	Electrical Engineering
100.	Veersa Technologies	5	7.5 LPA	B.Tech.Computer Engineering
101.	Lumiq	5	15000/- , 8 LPA	B.Tech.Information Technology
102.	Zenon Analytics	5	12 LPA	B.Tech.Computer Engineering
103.	IDFC First bank	5	3 LPA	MBA
104.	Effectual Services Pvt. Ltd	5	1.50 LPA (during Internship) Fixed CTC 3 LPA (after internship as per performance)	B.Tech.Electronics, Instrumentation & Control Engineering
105.	AlMoayyed International Group	5	881492(350BHD)	B.Tech.Electrical Engineering
106.	New Genesis Software Technologies Limited, Noida (Newgen )	6	4.25 LPA and 18000/- Pm	B.Tech.Information Technology
107.	Intellipaata	6	4.64 Stipend/ 9 LPA	B.Tech.Information Technology
108.	VERZEO	6	25000	B.Tech.Civil Engineering





109.	Yamaha Motor Solution India Pvt. Ltd., Greater Noida	7	8 LPA	B.Tech.Electronics & Communication Engineering
110.	Publicis Sapient	9	6.5 LPA	B.Tech.Information Technology
111.	Qspiders	9	3.5-4.5 LPA	B.Tech.Civil Engineering
112.	JSW TalenTech (2022 - Batch B) - (GET)	9	8 LPA	B.Tech.Mechanical Engineering
113.	Capgemini	10	4 LPA	All B.tech, MCA
114.	Decimal Technologies	10	15K,4.5 LPA	B.Tech.Computer Engineering
115.	Indiamart	11	50k , 8-8.5 LPA	B.Tech.Computer Engineering
116.	SMS India Pvt Ltd	12	15k,4.5 LPA	B.Tech.Mechanical Engineering
117.	Nagarro	12	6 LPA & 25,000	B.Tech.Computer Engineering
118.	McDermott Engineering company	12	550000	B.Tech.Mechanical Engineering
119.	Byju'S	13	5 LPA	All UG/ PG
120.	IBM Inida	18	4.5 LPA	B.tech (CE,IT,MSC,MCA )
121.	Maruti Suzuki	25	7.90-9.35 Lpa	B.Tech Mech., CE
122.	TCS	28	3.5 LPA	B.Tech.(ECE,EIC,EL,MCA,C E)
123.	Accenture graduate hiring	32	6.5 LPA	B.tech(IT,CE,ECE,MBA,BB A,MCA)
124.	Samsung Noida	32	30000/- PM,14.5 LPA	B.tech(IT,CE,ECE)
125.	Samsung R&D Delhi	34	45k,14.5 LPA	B.tech(IT,CE,ECE)
126.	Cognizant Technology Solutions Noida	108	6.7 LPA	B.Tech (MECh,CE,IT,EL,EIC,ECE, MCA

**ACHIEVEMENTS (IF ANY)**

1. Quadrant Cables Pvt. Ltd.(MOU)
2. Prime Electronics, Sonipat (MOU)
3. Advanced Silicones Pvt. Ltd. (MOU)
4. MV electro systems Pvt. Ltd. (MOU)





## UNIVERSITY HEALTH CENTRE





## **HEALTH CENTRE**

### **Medical Officer: Dr. Ankur Sharma**

The University Health Centre, located within the campus, at a close distance from the academic and hostel blocks. It has been upgraded into a fully air-conditioned Health Centre having one regular doctor and one Lady Doctor (for the period of 1 year), one nurse, one pharmacist, one Assistant and one dispensary attendant (worked till 28.02.2023). University Health Centre organizes multiple Health Check-up OPD's. Further upgradation of the apex research mainly for diabetic medicines for Patients and rational use of antibiotics were has been done by Dr. Ankur Sharma, Medical Officer and his team for the enthusiast in improvement of the patient life style among other research efforts several blood donation camps collaborated with Bharat Vikas Parishad as well as Red Cross society. The Health department is actively pursuing the proposals for establishing well equipped X-Ray centre for the stakeholders in need of emergency basis. A well organized sports medicines/orthopedic consultant visit the the University specially for the sports person. Emphasis was laid by Health Centre mainly for the implementation of the students. A Proposal for upgradation of lab has also been discussed with the competent Authority. The average yearly out-door patients are about 16284 which include patients who come during odd hours. The team of qualified doctors is always available for students. In case of emergency, the student is immediately transported to the hospital via University ambulance which is provided free of cost to the students. Computerised ECG, Laboratory investigation facilities with Haematology analyser and biochemistry analyser have also been provided.

The following facilities are available in the Health Centre:

1. First Aid Facility in case of minor injury.
2. Blood Pressure and Temperature measurement.
3. Blood Sugar by Glucometer.
4. Physicians Consultations.
5. Oxygen Concentrator.
6. Nebulizer Facility.
7. Weight and Height Measurement.
8. Wheel chair facility for Handicapped.
9. Visiting Doctor Facility.
10. Super Specialty Health Camp.

The following investigations are carried out in Health Centre-:

1. CBC
2. Blood Sugar
3. MP by Card Method
4. Typhi Dot
5. LFT
6. KFT
7. LIPID PROFILE
8. Blood Group
9. Widal
10. ECG

## **ACTIVITIES CONDUCTED**



- As a precautionary measure, due to the spread of Covid 19 pandemic Fogging and sanitization has been done on regular Intervals in the whole University Campus.
- Dr Ankur Sharma Medical Officer of the University along with his staff Members has been working regularly during the pandemic situation.
- E-Lectures were delivered by the Medical officer to the Teaching and Non -Teaching staff members of the University for the Prevention of COVID-19 pandemic.
- Masks and sanitizer were distributed in all the departments of the University.
- Tele- consultation given to the Patients.
- Thermal scanning of all the Faculty, staff Members, students and Visitors who are entering the University Campus is being done on both entrances.
- Advisory also given on regular intervals to staff Members of the University.
- Covid-19 Vaccination drive has been conducted at regular intervals in the University Campus for their faculty Members ,staff Members and students

### **CAMPS ORGANISED**

- Various Camps were organized during the year for the betterment of the University.



## **UNIVERSITY HOSTEL**



## BOY'S HOSTEL

**Chief Warden: Dr.Munish Vashishath**

**Additional Chief Warden: Dr. Krishan Verma**

All the Boy's Hostel on the university campus are under the supervision of Chief Warden (Boy's Hostel). There are three boy's hostels on the sprawling campus of university. The Following table lists the strength of students residing in different Hostels as in December 2019 along with names of Warden.

Sr. No.	Name of Hostel	No. of Resident	Name of Wardens
1	Nehru Hall*	120	Dr. O.P Mishra
2	Zakir Hall*	120	Sh. Ashish Pal
3	C.V Raman Hall*	98	Dr. Mahesh Chand

The university hostels provide accommodation to the students of university teaching departments. All the boys Hostels are situated in the vicinity of the Post office and Indian overseas Bank. Mess arrangement exists in all the hostels on contract basis. Some of the facilities which have been provided to the residents are: LPG system of cooking in Kitchen, big size pressure cookers, geysers for hot water in winter season, fans and power plugs in each rooms of the hostel, water cooler with water purifier etc., and facility of newspaper. Magazines of national/international importance, indoor games like carom and T.T including LED TV have been provided in common rooms. Hard bed, Racks, Table, chairs are also available to all the inmates.

In hostels, the students themselves manage their messes through their elected Mess-committees and enjoy food of their liking. To provide the hygienic food, the refined oil, milk, rice etc. of standard brands are used for cooking in all the messes after procuring from Government and non –Govt. agencies.

One ambulance remains ready round the clock for exclusive use of students residing in the hostels. The Ambulance remains parked near Dispensary and one driver is available on the Ambulance round the clock.

\* All the Boys hostels will be demolished from session 2022-23 and new hostels will be constructed.





## GIRLS HOSTEL

**Chief Hostel Warden: Dr Sandhya Dixit**  
**Additional Chief Hostel Warden: Dr Manvi**

The Girls' Hostel has four wings. The table below gives details regarding the name of the wings, the strength of the students in each wing and the name of their wardens.

Sr. No.	Name of the Hostel	No. of Students	Name of the Warden
1.	Mother Teresa Wing	88	Ms. Lavita Virmani
2.	Kalpana Chawla Wing	112	Ms. Anubha Gautam
3.	Sarojini Wing	79	Dr. Rewa Sharma
4.	Kasturba Wing	84	Ms Manju

In addition, there is a dedicated staff of 12 members who cater to the needs of the girls 24x7. The staff includes a resident attendant, matron, lady guards, sweepers, data entry operator.

The University provides Hostel accommodation to the undergraduate, post graduate and PhD students from all the streams (Engineering, Management and Humanities). The allotment is done on first come, first serve basis with preference given to the students who come from beyond 60 kms radial distance.

The Hostel provides some of the most remarkable facilities to its students as listed below:

1. Mess Facility-The hostel mess which is run on contract basis, provides hygienic food and water with clean utensils and proper furniture for the girls to dine. Police verification and medical check-up of the mess workers is done to ensure the safety and health of the students. Periodic inspection is done by the wardens and student representatives to maintain the standards and quality of the food items. Facility of shift canteen is also provided to the girls at the time of exams.
2. Well ventilated and spacious rooms.
3. Reading room with desktops, Common room with LED TV, Gymnasium with music system and Guest room.
4. 24x7 RO water supply and water tank clean regularly.
5. First aid and 24x7 Ambulance facilities.
6. Badminton and Basketball courts.
7. Sports and Recreational Facilities
8. CCTV surveillance. More cameras are added in year 2018-19
9. Biometric Attendance System, manually attendance and daily entry record
10. Sanitary Napkin Vending Machines and Incinerators in all the wings.
11. Geysers
12. Induction Cook Tops and grilled sandwich makers.
13. Newspapers and Magazines supply
14. Wi-Fi
15. Soft water tank has been constructed in year 2018-19 to provide soft water to the girls
16. Apart from all the facilities mentioned above pest control and fumigation/spray for protection from rats and mosquitoes is done on regular basis.





17. Expert lectures are organized to create awareness amongst the girls to maintain hygiene and cleanliness.
18. Self Defense, Anti Ragging, Anti drugs, Career counseling and Yoga classes are also organized time to time.
19. The hostel administration organizes a hostel fresher night party every year to welcome its new students which let the students mingle with each other to make the hostel atmosphere amicable and friendly.
20. Strict rules have been formulated to maintain discipline and hygiene in the hostel premises though prohibition of ragging is the major concern of the authorities. The students are expected to strictly adhere to the hostel entry and exit timings.
21. Feedback registers, Complaint registers and suggestion box are maintained to address the grievances of the students.
22. Maintain the Mess food Inspection report, Student feedback report, and cleanliness report.



## **UNIVERSITY CELL**



The University conducts various activities under the different Cells. The details of different Cell functional in the University are as under:

### **INTERNAL QUALITY ASSURANCE CELL (IQAC)**

#### **1. INTRODUCTION**

J. C. Bose University of Science and Technology, YMCA, Faridabad, is poised to grow with built-in quality systems in all processes of the University. Maintaining the momentum of quality consciousness is crucial in Universities. Internal Quality Assurance Cell, in fact, was established on 22.09.2015 as per 12th Plan Guidelines of UGC with a grant of Rs. 4, 2,000/- as a mechanism to build and ensure a quality culture at the institutional level.

The internal quality assurance mechanism of any institution/university called as “**Internal Quality Assurance Cell (IQAC)**” is meant for planning, guiding and monitoring Quality Assurance (QA) and Quality Enhancement (QE) activities of the same. National Assessment and Accreditation Council (NAAC) – an autonomous body established by the University Grants Commission (UGC) of India advocates that the IQAC has the potential to become a vehicle for ushering in quality by working out intervention strategies to remove deficiencies and enhance quality.

#### **OBJECTIVES OF IQAC**

1. To develop a quality system for conscious, consistent and catalytic programmed action to improve the academic and administrative performance of the University.
2. To promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

#### **FUNCTIONS OF IQAC**

The prime aim of the University is to see that every student has equal access to competent and qualitative teaching which leads to vibrant academic, social and personal growth on the campus and off the campus.

The functions of the IQAC at the University include:

- a) Development and application of quality benchmarks/parameters for the various academic and administrative activities of the University.
- b) Facilitating the creation of a learner-centric environment conducive for quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process;
- c) Initiate documentation of the various programmes/activities of the University, leading to quality improvement.
- d) Inculcate a system of transparency and mutual trust among stakeholders.
- e) Sensitization and dissemination of information on the various quality parameters of higher education.
- f) Preparation of the Annual Quality Assurance Report (AQAR)

#### **CONSTITUTION OF IQAC DURING ACADEMIC YEAR 2021-22**



Current constitution of IQAC was notified on 13/07/2020 and is valid for two years.

<b>Sr. No.</b>	<b>Name</b>	<b>Designation</b>
1.	Vice Chancellor, YMCAUST, Faridabad	Chairman
2.	Registrar, YMCAUST, Faridabad	Member
3.	Prof. Sandeep Grover, YMCAUST Faridabad	Member
4.	Prof. Mohan Lal Aggarwal, YMCAUST Faridabad	Member
5.	Prof. Raj Kumar, JCBUST, YMCA, Faridabad	Member
6.	Prof. Komal Bhatia, JCBUST, YMCA, Faridabad	Member
7.	Prof. Atul Mishra, JCBUST, YMCA, Faridabad	Member
8.	Prof. Poonam Singhal, JCBUST, YMCA, Faridabad	Member
9.	Dr. Ravi Kumar, JCBUST, YMCA, Faridabad	Member
10.	Dr. Anushree Chauhan, JCBUST, YMCA, Faridabad	Member
11.	Dr. Rashmi Aggarwal, JCBUST, YMCA, Faridabad	Member
12.	Dr. Yogita, JCBUST, YMCA, Faridabad	Member
13.	Dr. Prem Narayan Bajpai, Librarian -JCBUST YMCA, Faridabad	Member
14.	Dr Meha Sharma, DR(E) -JCBUST YMCA, Faridabad	Member-Administrator
15.	Mr. Gautam Singh, M.Tech. (ME)- I Year	Member (Student)
16.	Mr. Chirag Goyal, B.Tech Electrical Engg., III Year	Member (Student)
17.	Mr. Praveen Goyal, B.Sc. Maths (Honors), III year	Member (Student)
18.	Prof. Arshad Noor Siddiqui -JMI, New Delhi	Member (Outside Expert)
19.	Prof. Neeraj Dllbaghi -GJU Hisar	Member (Outside Expert)
20.	Prof. Shalini Singh -MDU Rohtak	Member
21.	Dr. Krishan Kant, Principal-Aggarwal College, Faridabad	(Outside Expert)
22.	Sh. Anil Kumar Bhardwaj - Adviser, TRAI, New Delhi	Member
23.	Sh. Mohit Vohra *MD at MV Electrosystems Pvt. Ltd.	(Outside Expert)
24.	Prof. Hari Om, JCBUST, YMCA, Faridabad	Director -IQAC (Member Secretary)

**MEETINGS/ACTIVITIES OF IQAC DURING YEAR 2021-22**

<b>Sr. No.</b>	<b>Activities/Meetings taken up during the academic year 2021-22</b>	<b>Date of Conduct</b>
1.	Conduct Commendation ceremony	04/08/2021
2.	National Education Policy 2020: The road ahead for holistic qualitative development in education	22/10/2021
3.	Conduct 15 <sup>th</sup> IQAC meeting	13/01/2022
4.	Verification of score for Promotion under CAS cases	As and when cases were received during the Year
5.	Conduct of Administration and Academic Audit	Done
6.	Conduct of Feedbacks on curricula and follow-up action	Done
7.	Conduct of 360 degree feedback through departments	Done



## UNIVERSITY COMPUTER CENTRE AND DIGITAL AFFAIRS

### 1. INTRODUCTION

The revolutionary advancement in digital technologies has necessitated the dissemination of these technologies to society and also to adopt it for modern education. The University has set up a University Computer Centre and Digital Affairs Cell (UCCDA). It was established in the year 2019 by combining two entities: IT Cell (Incepted in 2017 to ascertain ICT infrastructure and networking facility in the University) and Digital Cell (Incepted in 2015 to ensure implementation of digital initiatives and digital learning environment in the University). It is taken as centralised resource facilitator for computerization with an aim to cater to the needs of the entire University (students, research scholars, teachers and other staff of the University). Its associated objective is also to automate administrative and secretarial wings of the University. Cell is working to progress the university towards digital universe, taking care of ICT infrastructure and conducting regular events/activities/workshops related to digital payment missions, digi-locker facility, MOOCs, digital literacy, consumer services and technical fests for our students and staff. Cell has worked in a direction to implement National Academic Depository, Digi-Locker scheme, SWAYAM Prabha, Credit transfer via SWAYAM MOOCs, Digital Classrooms, Digital Notice Boards and Lecture Capturing facility in the University premises.

Sr. No.	Name	Task
1.	Dr. Neelam Duhan (CE) - Director, Digital Cell	Overall responsible for activities related to cell.
2.	Ms. Manju Rani (EE) Dr. Rewa Sharma (CE) Ms. Shivi Garg (CE)	MOOC enrolments of students for Credit transfer MOOC enrolments of faculty for enhanced learning as per AICTE mandate SWAYAM-NPTEL Local Chapter IIRS-ISRO outreach programmes for students/faculty Other online courses except SWAYAM
3.	Dr. Lalit Goyal (CE) Dr. Arun (Physics)	Digital classrooms Digital Notice Boards Lecture Capturing System for MOOC development/online teaching
4.	Dr. Deepika Punj (CE) Sh. Sachin Gupta (AR (Exams))	NAD implementation Digi-Lockers for students/staff e-Office implementation
5.	Sh. Ankit Pannu (System Analyst) Sh. Omdev (programmer)	Digital Learning management System (DLMS) Faculty Information Management system (FIMS)
6.	Sh. Nitin Panwar (ME) Dr. Suraj Goyal (Maths)	SWAYAM Prabha Digital Literacy Programmes Student activities and events Miscellaneous day to day tasks
7.	Sh. Jitender Singh Yadav (PRO)	Digital media/coverage
8.	Sh. Sanjay Kumar (CE) Sh. Krishan Kumar (CE)	Technical Support Team

### BROAD OBJECTIVES



**OBJECTIVES OF THE CELL**

- To strengthen ICT infrastructure including Wi-Fi and wired connectivity
- To support in automation of different data processing works of the University
- To act as an advisory unit to the University on matters relating to procurement, usage, and maintenance of computing and network equipment
- To review and monitor the current use of digital resources
- To suggest ways and initiatives to improve utilization of digital resources
- To develop dedicated infrastructure in the University to facilitate demonstration of training programmes pertaining to digital technologies and its applications in technical education.
- To promote R&D on emerging Digital Technologies in the University.
- To enhance Digital Learning by using Govt. Platforms like SWAYAM-NPTEL.
- Enhance paper-less working and cashless transactions in the University
- To implement various schemes/facilities provided by UGC/AICTE/other Govt. bodies in the University.
- To ensure online availability of the all-relevant information through university website
- To provide training and support to students and the university staff related to various software procured or developed in-house by the University

**ACTIVITIES CONDUCTED BY CELL**

The UCC & DA has organised following activities: -

<b>Date</b>	<b>Name of Activity</b>	<b>Number of Participants</b>
31.7.2021 to 5.8.2021	Digi-Fiesta 2021: The National-level Techno-Digital Fest with 11 technical/competitive and participative events	6000+ students across the country
25.5.2022 to 27.5.2022	Digi Week 2022: The 3-day long programme with online and offline technical events and workshops	1000+ students
19.7.2022	Formation of the new Student Team for session 2022-2023	Cell members
17.6.2022 to 19.6.2022	Inhouse Designing sessions on online zoom platform	15 cell members
27.7.2022 to 28.7.2022	Inhouse Web Development sessions	Web development team
29.7.2022 to 01.8.2022	Inhouse App Development sessions	App development team
30.7.2022 to 31.7.2022	Inhouse Competitive Programming sessions in online mode	Cell members
2.8.2022 to 4.8.2022	Inhouse Competitive Programming sessions in offline mode	Cell members
28.11.2022 to 2.12.2022	Digi Fiesta 2k22: The National-level Techno-Digital Fest with 9 technical/competitive and participative events	2000+ students across the country
7.12.2022	DSA session with speaker Fraz Mohammad	300+ students



**DIGI FIESTA 2021 – The Techno Digital Fest (31 Jul – 05 Aug 2021)**



**Digi Week (25th May, 2022 - 27th May, 2022)**



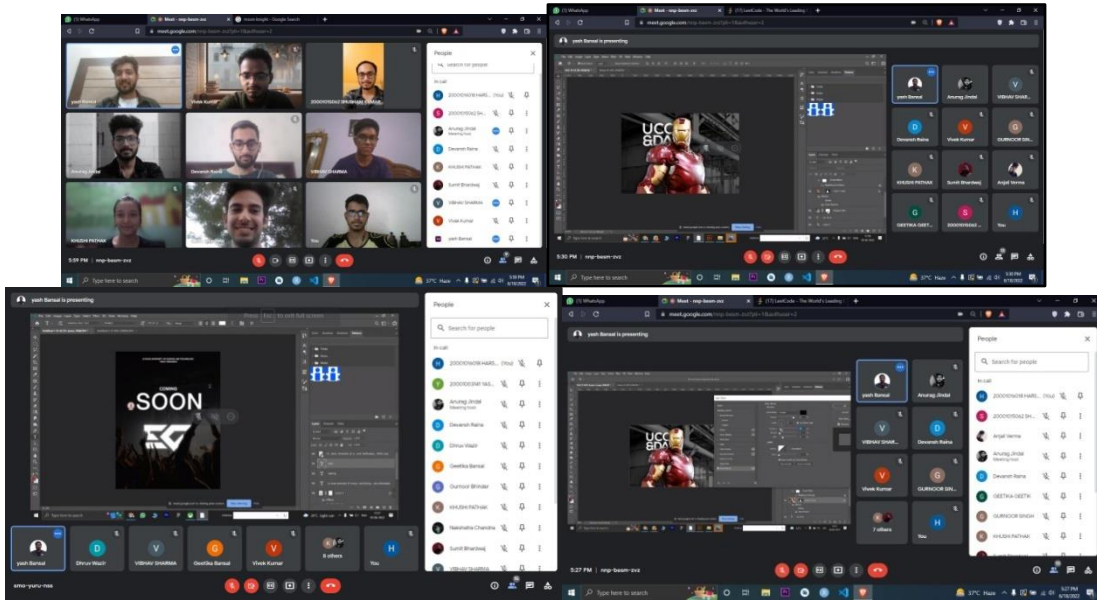




Formation of the New Student Team for Session 2022-23



Inhouse designing sessions (17 June 2022-19 June, 2022)



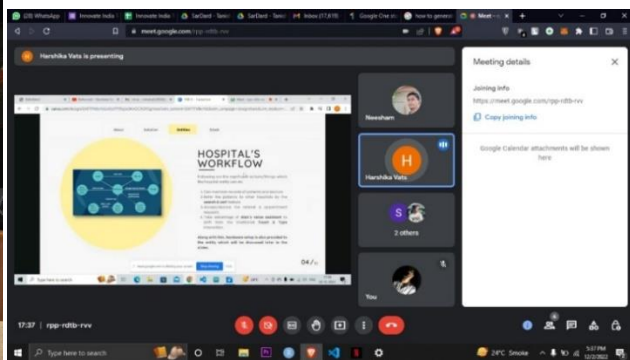
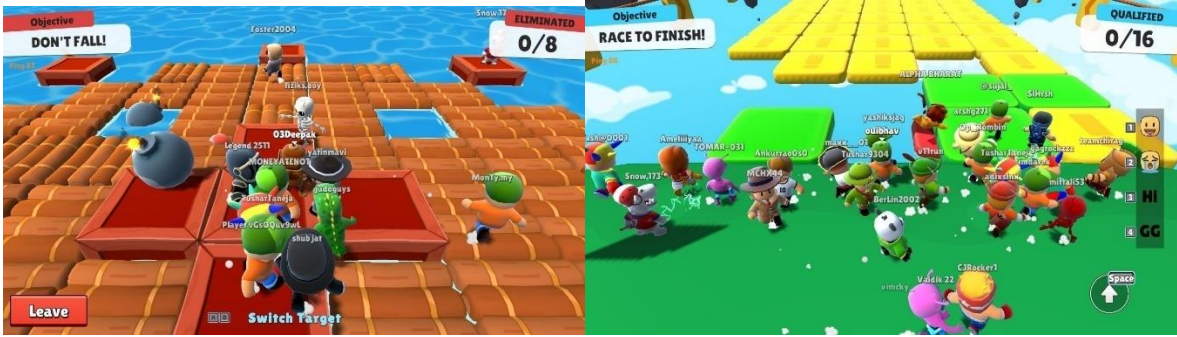
**Inhouse Web Development sessions (27 July 2022-28 July, 2022)**



**Digi Fiesta 2k22 (28th November 2022 – 2nd December 2022)**







**DSA Session with Fraz Mohammad (7th December 2022)**





## **LEGAL CELL**

*The legal cell in the University was established to centralize all the disputes related to the University and ensure timely action.*

## **CONSTITUTION**

- Mrs. Renu Dagar, Assistant Law Officer

The broad objectives of the cell are as follows:

- To act upon the notices received from various courts.
- To collect the copies of complaints, petitions, from concerned courts.
- To obtain necessary details in the form of parawise comments with relevant documents from the concerned department of the University.
- To obtain the approval of Vice-Chancellor for engagement of Advocate from University Panel for pleading the case before concerned courts.
- To prepare written statements, counter affidavits on the complaints and petitioners with the help of University Advocate and ensure its timely submission; before the courts.
- To prepare and file the petitions, Appeal before Appellate Courts on behalf of the University with the help of Advocate against of orders of the lower court.
- To ensure proper and effective plea of all the case pending before various courts viz. District Courts, Labour courts, Consumer Courts, Public Service Tribunals, High Courts and Supreme Court, etc.
- To help in preparation of replies of Legal Notices received by the University.
- To examine and vet the administrative orders, drafts of contracts, Memorandum of Understanding, Agreements for execution.
- To provide legal assistance to the Competent Authority as and when required and to assist University administration for maintaining discipline, law and order.

## **STATUS OF CASES RELATED TO UNIVERSITY IN VARIOUS COURTS**

Number of cases filed in the year June 2021 to July 22:	08
Number of cases decided during the year June 2021 to July 22:	07

## **PUBLIC INFORMATION (RTI) CELL**

The Cell act as a nodal point to supply information on the request of applicants received under RTI Act, 2005 and to make coordination amongst other Public Information Officers and supply information to State Information Commission, Haryana, Chandigarh.

First appellate authority:	Dr. C. K. Nagpal, Professor, Computer Engineering Department.
Assistant Public Information Officer:	Mrs. Renu Dagar, Assistant Law Officer
Nodal Officer:	Mr. Jitender Singh Yadav, Public Relations Officer



## LIST OF PUBLIC INFORMATION OFFICERS

Sr. No.	Subject Matter	Department/ Section	Public Information Officer	Name of the Public Information Officer
1.	Information relating to University Teaching Departments	University Teaching Departments: Computer Engineering (CE)/ Computer Application (CA)/Electrical Engineering (EE)/ Electronics Engineering (EL)/Mechanical Engineering (ME)/ Civil Engineering (Civil)/ Humanities (Hum)/Management Studies (MBA)/Physics (PHY)/Chemistry (CH)/Life Sciences(LS)/ Environmental Sciences (EVS)/ Mathematics (Math)	PIO-cum-Chairperson of the concerned department	CE: Dr. Komal Kumar Bhatia (Chairperson) Ph: 129-2310178
				CA: Dr. Manjeet Singh (Chairperson) Ph: 129-2310179
				Hum: Dr. Atul Mishra (Chairperson) Ph: 129-2310179
				EL: Dr. Poonam Singhal (Chairperson) Ph: 129-2310129
				EE: Dr. Neelam Turk (Chairperson) Ph: 129-2310179
				ME: Dr. Tilak Raj (Chairperson) Ph: 129-2310155
				MBA: Dr. Ashutosh Nigam (Chairperson) Ph: 129-2310129
				Civil: Dr. M.L. Aggarwal (Chairperson) Ph: 129-2310113
				PHY: Dr. Anuradha Sharma (Chairperson) Ph: 129-2310115
				EVS: Dr. Renu Gupta (Chairperson) Ph: 129-2310130
				CH/LS: Dr. Ravi Kumar (Chairperson) Math: Dr. Neetu Gupta (Chairperson) Ph: 129-2310117
2.	Information relating to Examination branches	Examination Section	PIO-cum-Controller of Examination/ Assistant Registrar Examination branch	Dr. Rajeev Kumar Singh (COE)/ Sh. Sachin Gupta (AR) Ph: 129-2310112
3.	Information relating to Establishment matters (Teaching and Non-Teaching)	Establishment Section	PIO-cum-Deputy Registrar/Assistant Registrar (Establishment)	Dr. Meha Sharma (DR-E) Ph: 129-2310158
4.	Information	Accounts Section	PIO-cum-Controller of	Dr. Munish Vashishth



	relating to Accounts matters		Finance/Chief Account Officer	(COF)/Sh. S.C. Kaushik (CAO) Ph: 129-23101176
5.	Information relating to Construction/ Maintenance matters	Maintenance/ Construction Section	PIO-cum-XEN/SDE	Sh. Ajay Taneja (XEN)/Sh. A. K. Sharma (SDE) Ph: 129-2310183-85
6.	Information relating to Registration/ general Academic matters	Academic Section	PIO-cum- Deputy Registrar/ Assistant Registrar Academic section	Sh. Harish Kumar (DR-A) / Ms. Jyoti Mor (AR) Ph: 129-2310160
7.	Information relating to Student Welfare Activities	Office of Dean Student Welfare (Sports/Cultural/Technical/NSS)	PIO-cum-DSW/DYW	Dr. Lakhwinder Singh (DSW)/ Dr. Pradeep Dimri (DYW) Ph: 129-2310119
8.	Information relating to all hostel matters	Office of Chief Hostel Warden (Boys)	PIO-cum- Chief Hostel Warden (Boys)	Dr. Vikas Turk (CHW -Boys) Ph: 129-2310174
9.	Information relating to all hostel matters	Office of Chief Hostel Warden (Girls)	PIO-cum- Chief Hostel Warden (Girls)	Dr. Sandhya Dixit (CHW - Girls) Ph: 129-2310192
10.	Information relating to general discipline related matters	Office of proctor	PIO-cum-Proctor	Dr. Munish Vashishtha (Proctor) Ph: 129-2310176
11.	Information relating to Store and Purchase related matters	Office of Head S&P	PIO-cum- Deputy Registrar/ Assistant registrar (S&P)	Sh. Munish Gupta (DR-P)/ Sh. Vishal Kumar (AR) Ph: 129-2310164
12.	Information relating to Workshop	Office of Workshop Superintendent	PIO-cum- Workshop Superintendent	Sh. Vivek Sharma (WS) Ph: 129-2310121
13.	Information relating to Affiliation Branch	Affiliation Branch	PIO-cum-Dy. Dean/Coordinator	Sh. Manish Gupta, Dy. Registrar Ph: 129-2310181
14.	Information relating to Training and Placement office	Training and Placement Office	PIO-cum-TPO	Dr. Lakhwinder Singh (TPO) Ph: 129-2310119
15.	Information relating to Community College	Principal, Community College	PIO-cum-Principal, Community College	Dr. Sanjeev Goyal (Principal, CC) Ph: 129-2310175



16.	All other Offices/Sections /Cells/New Departments, if any	Concerned Head of Office /Section/ Cell/ Department	PIO-cum-Concerned Office Head	Concerned Office /Section/ Cell/ Department Ph: 0129-2310125
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**DETAILS OF RTIs / FIRST APPELLATE / SECOND APPELLATE AS ON 31-07-2022**

- RTI applications received during June 2021 to July 2022 and disposed off: 129
- RTI application received by First Appellate Authority and disposed off: 06
- RTI applications received by Second Appellate Authority and disposed off: NIL



## VIGILANCE CELL

### 1. INTRODUCTION

The Vigilance Cell has been constituted in the University on 11.04.2022 vide letter no. Estb/misc/859 in compliance of the orders dated 04<sup>th</sup> April, 2022 of the Haryana Govt... It has been constituted to enhance the probity and efficiency of the organisation and to fight against corruption. The information regarding the University Vigilance Cell and helpline number has also been displayed at the prominent places in the University. Vigilance Cell endeavours to foster an environment that instils a sense of integrity amongst the employees of the University. It encourage various activities/programme related to anticorruption like Celebrating the Vigilance awareness week in the University, to increase the public awareness about the peril of the corruptions. It also conducts sensitization programs for the employees regarding the needs of transparency and integrity in public governance.

**J.C. BOSE UNIVERSITY**  
 OF SCIENCE AND TECHNOLOGY,  
 YMCA, FARIDABAD (HARYANA)

### NOTICE | सूचना

"Do Not Pay Bribe. If anybody of this office asks for bribe or if you have any information on corruption in this office or if you are a victim of corruption in this office you can complain to the Vigilance Cell or Head of this University or the Chief Vigilance Officer / The Superintendent of Police, State Vigilance Bureau, Haryana / Director General, State Vigilance Bureau, Haryana."

"कृपया रिश्वत न दें। यदि इस कार्यालय का कोई कर्मचारी रिश्वत की मांग करता है या यदि आपके पास इस कार्यालय में भ्रष्टाचार की कोई जानकारी है या आप इस कार्यालय में भ्रष्टाचार के शिकार हैं तो आप इसकी शिकायत इस विश्वविद्यालय के सतर्कता प्रकोष्ठ या कुलपति, मुख्य सतर्कता अधिकारी या पुलिस अधीक्षक, राज्य सतर्कता ब्यूरो, हरियाणा/महानिदेशक, राज्य सतर्कता ब्यूरो, हरियाणा को कर सकते हैं।"

#### VIGILANCE HELPLINE NUMBER

**UNIVERSITY VIGILANCE CELL**  
 Phone : 0129-2310125  
 Email-ID: vigilance@jcboseust.ac.in

**STATE VIGILANCE BUREAU**  
 Phone: 0172-2970057  
 Toll Free Number  
 1800 AM to 5:00 PM All Working Days)  
 1054 & 1805-180-2022  
 Whats App No. : +91 94179-91054  
 Email-ID: svb@hry.nic.in

### CONSTITUTION

Name of the Member	Designation
Prof. Sandeep Grover	Chairman
Dr Lakhwinder Singh, DSW	Member
Dr Neetu Gupta, Chairperson, ICC	Member
Prof. Komal Kumar Bhatia	Member
Prof. Atul Mishra	Member
Dr Sandhya Dixit	Member
Dr Bindu Mangla	Member
Dr Pawan Kumar Malik	Member
Ms Renu Dagar, Asst. Law Officer	Member Secretary

E Mail: [vigilance@jcboseust.ac.in](mailto:vigilance@jcboseust.ac.in) | Phone: 0129-2310125





## **EQUAL OPPORTUNITY CELL**

### **CONSTITUTION**

Prof. Raj Kumar, Mechanical Engineering Department (Chairman)

Prof. Atul Mishra, Computer Engineering Department (Member)

Ms. Pooja, Chemistry Department (Member)

Ms. Renu Dagar, Assistant Law Officer (Member)

#### **The broad objectives of the cell are as follows:**

- To take measure against the discrimination.
- To take appropriate measure to safeguard the interest of students without any prejudice to their caste, creed, religion, language, ethnicity, gender and disability.
- Eliminate the discrimination or harassment
- Promote the equality among the students
- To ensure no discrimination against the students of scheduled caste and scheduled tribes



## **SC/ST WELFARE CELL**

**To improve the academic skills & linguistic proficiency of students belonging to SC/ST Category in various courses.**

### **CONSTITUTION**

- Dr. Raj Kumar, Dean & Chairperson (HAS) – Chairman
- Dr. Vasdev Malhotra, Associate Professor – Incharge
- Dr. Renuka, Assistant Professor – Member
- Mr. Bal Krishan Assistant Professor – Member
- Mr. Harish Kumar, Assistant Professor – Member
- Mrs. Anushree Chauhan, Assistant Professor – Member

The broad objectives of the SC/ST Welfare Cell are as follows:

- To improve the academic skills & linguistic proficiency of students in various subjects.
- To raise their level of Comprehension of basic subjects to provide a stronger foundation for further academic work.
- To strengthen their knowledge, skills & attitudes in such subjects where quantitative & qualitative techniques and laboratory activities are involve, so that the necessary guidance and training provided under the programme may enable the students to come p to the level necessary for pursuing higher studies efficiently to reduce their failure and dropout rate.
- To provide career guidance and psychological counselling for capacity building to those who are in need of such counselling.



## CAREER AND COUNSELLING CELL

### 1. INTRODUCTION

The Career and Counselling Cell was established in the University on 5th May 2015. The aim of the cell is to provide comprehensive guidance programs and services that will equip students with necessary knowledge, attitude and skills to become mature and socially responsible individuals. The cell aims to enhance the academic and personal skills of the students by providing a variety of counselling, mentoring and psychological services and to educate students in ways that develops self-awareness, self-reliance, and self-confidence.

### 2. CONSTITUTION

Sr. No.	Name and Designation	Responsibility
1.	Prof. Arvind Kumar	Chairman
2.	Sh. Bharat Bhushan	Member
3.	Dr. Manvi	Member
4.	Dr. Ashlesha Gupta	Member
5.	Dr. Neha Goyal	Member
6.	Sh. Atma Ram	Member

### 3. MEETINGS DURING THE YEAR 2021-22

Sr. No.	Date of Meeting	Agenda of Meeting
1.	24.08.2021	To discuss about various events to be organized in 2021-22
2.	11.09.2021	To do SWOC Analysis done and Finalize Budget for various activities.
3.	15.03.2022	To Finalized Data regarding NAAC and Cell website.
4.	21.05.2022	To discuss Mentor Development Programme being conducted by Bharatiya Yuva Shakti Trust

### 4. EVENTS / ACTIVITIES DURING THE YEAR 2021-22

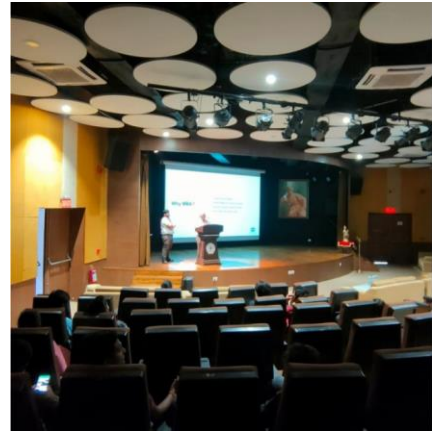
Sr. No.	Name of Activity	Date	Number of Participants
1.	Opportunities in Higher Education	15 <sup>th</sup> March 2022	250
2.	Mentor Development Programme conducted by Bhartiya Yuva Shakti Trust	4 <sup>th</sup> -5 <sup>th</sup> June 2022	12
3.	Coding Contest and a Seminar on Roadmap to Crack Internships and Placement	16.05.2022	200
4.	How to prepare for Civil Services Exam	19 <sup>th</sup> June, 2021	54
5.	Heartfulness Meditation	21 <sup>st</sup> -23 <sup>rd</sup> May, 2021	128
6.	Hit It and Quid ditch 2.0	9 <sup>th</sup> to 18 <sup>th</sup> July 2021	500



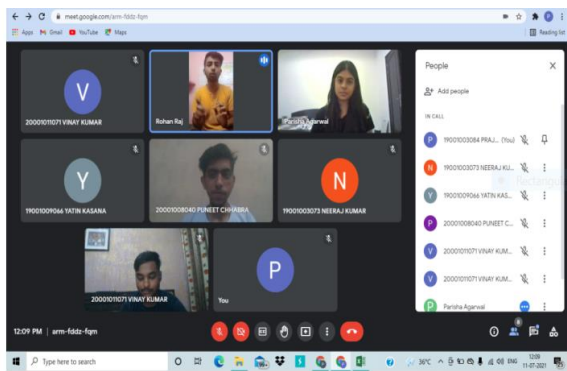
5. PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE CELL



Opportunities in Higher Education, IMS Group



Opportunities in Higher Education , IMS Group



Hit it & Quditch 2.0



Hit It & Quditch 2.0



## ALUMINI AFFAIR CELL

### 1. INTRODUCTION

The Alumni Affairs Cell is a dynamic, member-focused organization directed towards connecting, engaging, involving, creating and supporting a network of former graduates who will, in turn, help to raise the profile of the university. The Alumni and Corporate Affair Cell wishes to garner active support from industries and facilitate their involvement in research, training and placements. This cell also supports various other networks of the university among which the most prominent one is YMCA MOB Alumni Association. The Alumni and Corporate Affair Cell connects with its alumni through an online portal in which currently 7000 + alumni leaders of the university are linked.

### CONSTITUTION

Sr. No.	Name and Designation	Responsibility
1.	Dr. Vikram Singh	Dean
2.	Dr. Shruti Mittal	Coordinator

### OBJECTIVES

- To encourage interactions between students, faculty, alumni and industry by holding lectures, seminars, workshops and conferences.
- To generate a 'Brain-Bank' from amongst its members or experts from outside and provides its services for the benefit of the University, in particular, Alma Matter and the society, in general.
- To publish and distribute various materials relating to the University and its alumni.
- To arrange and conduct meetings of the alumni.
- To assist in the placement of students and to provide scholarships where appropriate.
- To encourage alumni and friends of the University to generously support the University.
- To organize and promote a fund to be known as The University Alumni Fund for the use and benefit of The University and its association.

### EVENTS / ACTIVITIES DURING THE YEAR 2021-22

Sr. No.	Name of Activity	Date
1.	YMCA MOB Alumni Portal	2022
2.	Reserch collaboration with Local Industries	10.05.2022
3.	YMCA MOB supported 'Green Initiative'	08.08.2022
4.	Alumni Meet	24.10.2021
5.	Constitution of the new team of YMCA - MOB Alumni Association.	07.02.2022





### ACHIEVEMENTS

1. MoU with Bony Polymers Pvt. Ltd,
2. MoU with Belz Instruments Pvt. Ltd.
3. MoU with AV Automation Gurugram.
4. Scholarship amount of about Rs. 13 Lakhs for needy students

### ACADEMIC ACTIVITIES CONDUCTED BY THE CELL



Reserch collaboration with Local Industries



YMCA MOB supported Green Initiative



MOB Council Meeting

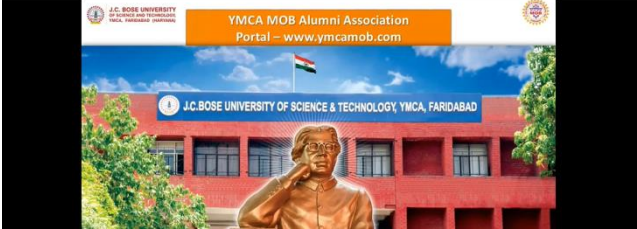


Alumni Meet 2021



**J.C. Bose University of Science and Technology, YMCA, Faridabad**  
June 24, 2022

Dear Alumni,  
YMCA MOB **Alumni Portal** membership is available to all @JCBoseUST (YMCA) alumni and alumni have full access to password-protected features like searching alumni directory, making friends list, sharing photos, jobs and messages etc. To access these features you must register to establish a User ID and Password and you need to register only once.  
The registration process includes few easy steps. To walkthrough the Alumni Portal Registration process, please follow t... [See more](#)



**YMCA MOB Alumni Portal**



**MoUs with Bony Polymers Pvt. Ltd, Belz Instruments Pvt. Ltd., and A V Automation**



## IPR, INNOVATION AND STARTUP/INCUBATION CELL

### CONSTITUTION

1. Dr. Sanjeev Goel, Associate Professor, Mechanical Engineering (In-charge)
2. Dr. Sapna Taneja, Assistant Professor, Management Studies (Coordinator)
3. Dr. Rashmi Chawla, Assistant Professor, Electronics Engineering
4. Dr. Krishan Verma, Assistant Professor, Mechanical Engineering
5. Dr. Ashlesha, Assistant Professor, Computer Engineering
6. Dr. Neha, Assistant Professor, Management Studies

### INCUBATION FOUNDATION

#### 1. INTRODUCTION

The University has created an ecosystem for innovation including JCB-TBI, supported by other initiatives including IoT Lab, Coworking Space, 3D printing setup for prototyping and testing, for creation and transfer of knowledge. At JCB-TBI we offer a wide range of Technical, Strategic Management and Business mentoring support by the expert faculty and experts from various industries. We regularly organize activities like seminars, start-up events, motivational and technical lectures, workshops and symposiums on Ideation, Start-up and Entrepreneurship, Intellectual Property Rights (IPR) and Industry-Academia Innovative practices etc. to kindle the entrepreneurial spirit of our students and participants. JCB-TBI also supports our budding entrepreneurs with fundraising assistance through various activities. Incubation Center have set up a comprehensive Start-up Entrepreneurship Workshop Program to help our students to understand the deep nuances of business and all its components including market research, business planning, pitching to investors for successful implementation of their start-up business ideas. Incubation Center have already successfully conducted over 50 programs/competitions/ workshops for Innovation and Entrepreneurship and half a dozen programs/ workshops on Intellectual Property Rights (IPR) alone.

**No. of start-up supported by institute: 5**

Sr. No.	Added On	Title of Project	Name of Students	Amount	S.No.
1.	Sept.2020	CYNDI	Lalit	200000	1
2.	Dec. 2020	Lunablaze	Mahender	100000	2
3.	Dec. 2020	Smart MFP 3D Printer	Sachin Yadav	300000	3
4.	Dec. 2020	Automated Vertical Planter	PalakKumari	200000	4
5.	Dec. 2020	Smart parking	Sameer Sharma	100000	5





## **INSTITUTION'S INNOVATION CELL**

### **1. INTRODUCTION**

Ministry of Education (MoE), Govt. of India has established 'MoE's Innovation Cell (MIC)' to systematically foster the culture of Innovation amongst all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are informative years.

MIC has envisioned encouraging creation of 'Institution's Innovation Council (IICs)' across selected HEIs. A network of these IICs will be established to promote innovation in the Institution through multitudinous modes leading to an innovation promotion eco-system in the campuses.

#### **Major focus of IIC**

- To create a vibrant local innovation ecosystem.
- Start-up supporting Mechanism in HEIs.
- Prepare institute for Atal Ranking of Institutions on Innovation Achievements Framework.
- Establish a Function Ecosystem for Scouting Ideas and Pre-incubation of Ideas.
- Develop better Cognitive Ability for Technology Students.

#### **Functions of IIC**

- To conduct various innovation and entrepreneurship-related activities prescribed by Central MIC in time bound fashion.
- Identify and reward innovations and share success stories.
- Organize periodic workshops/ seminars/ interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.
- Network with peers and national entrepreneurship development organizations.
- Highlight innovative projects carried out by the institution's faculty and students.
- Organize Hackathons, idea competition, mini-challenges etc. with the involvement of industries.

The university of has created an eco-system of innovation by establishing an Institution's Innovation Cell of the and Technology Business Incubator, supported by other initiatives including IoT Lab, 3D printing setup for prototyping and testing. These divisions regularly organize activities like seminars, workshops, motivational sessions, Intellectual Property Rights (IPR), field visits and Ideation etc. to inspire the entrepreneurial spirit among the students and participants.



## J. C. Bose University of Science & Technology, YMCA, Faridabad

(A Haryana State Government University)

(Established by Haryana State Legislative Act No. 21 of 2009 & Recognized by UGC Act 1956 u/s 22 to Confer Degrees)

Accredited 'A' Grade by NAAC

### INSTITUTIONS'S INNOVATION COUNCIL

IIC/2020/69

#### Notice

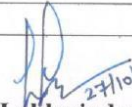
27-10-2020

#### **SUBJECT: Reconstitution of Institute Innovation Council**

As Approved by competent authority, following is the list of Faculty members of updated Institute Innovation Council (University level) for the duration 2020-2021. All the Faculty Coordinators are responsible for smooth conduct of MIC- driven, IIC driven and Self Driven Activities. During conduct of activities please note:

- Banner/details must be uploaded on IIC Facebook Page before the activity.
- Report of the activity must be uploaded on MoE Portal and University ERP Portal.
- For Self Driven Activity, Information about related activity must be uploaded on MoE portal.
- Activity coverage in the form of Photos or videos must be uploaded on IIC Facebook Page after the event.
- For uploading on IIC Facebook page, all members are requested to send the information to Mr. Aditya with a request to upload on IIC Facebook Page.

1	President	Prof. Lakhwinder Singh	
2	Vice-President	Dr. Sapna Gambhir	
3	Convenor	Dr. Parul Tomar	
		<b>Faculty Coordinator</b>	<b>Member Coordinator</b>
4.	Incubation Activity	Mr. Ajay Sharma	Dr. Krishan Verma Dr. Sakshi Dr. Rewa Dr. Yogita
5	Innovation Activity	Ms. Rashmi Chawla	Dr. Poonam Garg Ms. Jyotsana Chawla Dr. Somvir Dr. Anurag
6	Start-up Activity	Dr. Rashmi Popli	Dr. Nikhil dev Dr. Sheilza Jain Dr. Suraj Ms. Anubha Gautam
7	Internship Coordinator	Dr. Vishal Puri	
8	IPR Activity Coordinator	Dr. Ashlesha Gupta	Dr. Manvi Dr. Vishal Puri Ms. Gunjan Gumber
9	Social Media Coordinator	Mr. Jitender (PRO)	Mr. Aditya
10	ARIIA Coordinator	Dr. Krishan Verma	
11	NIRF Coordinator	Ms. Jyotsana Chawla	

  
 27/10/2020  
**Prof. Lakhwinder Singh**  
 Director/ President, IIC



**List of Events/ Sessions /Workshop organized by Institution’s Incubation Cell (Session – 2021-22):**

Sr. No.	Activity Category	Activity Name	From Date	To Date
1.	IIC Calender Activity	Workshop on Entrepreneurship and Innovation as Career Opportunity	11/12/2021	11/12/2021
2.	Self Driven	Government Initiatives and Schemes for Start-ups	11/18/2021	11/18/2021
3.	IIC Calender Activity	Entrepreneurial Motivation through all the ripples	11/18/2021	11/18/2021
4.	IIC Calender Activity	Session on Problem Solving and Ideation Workshop	11/17/2021	11/17/2021
5.	Self Driven	Yuva Prerna Diwas	9/8/2021	9/17/2021
6.	Self Driven	Coordination Chemistry and Alzheimer's Disease: Innovations & Challenges	11/17/2021	11/17/2021
7.	Celebration	National Education Day	11/11/2021	11/11/2021
8.	IIC Calender Activity	My Story - Motivational Session by Successful Innovators.	11/15/2021	11/15/2021
9.	Self Driven	Innovation Protection through IPR	12/15/2021	12/15/2021
10.	IIC Calender Activity	Workshop on Entrepreneurship Skill, Attitude and Behavior Development	1/28/2022	1/28/2022
11.	IIC Calender Activity	Process of Innovation Development & Technology Readiness Level & Commercialization of Lab Technologies & Tech Transfer	2/4/2022	2/4/2022
12.	Self Driven	Patent : Its Importance and Filing Procedure	2/8/2022	2/8/2022
13.	Self Driven	Achieving Problem-Solution Fit & Product-Market Fit	2/7/2022	2/7/2022
14.	Self Driven	Expert Talk on “Opportunity in Chaos: Innovate & Inspire”	2/9/2022	2/9/2022
15.	Self Driven	School Student’s visits to Research facilities available at JCBUST	2/15/2022	2/15/2022
16.	Self Driven	Design Thinking and Critical Thinking and Innovation Design	2/14/2022	2/14/2022
17.	Self Driven	Goal Setting	12/27/2021	12/27/2021
18.	MIC Driven	AKAM	1/11/2022	1/13/2022



19.	MIC Driven	AKAM	1/11/2022	1/13/2022
20.	IIC Calender Activity	Workshop on Design Thinking, Critical thinking and Innovation Design (Feb 23, 2022)	2/23/2022	2/23/2022
21.	MIC Driven	Orientation Session on IIC4.0 & Features	1/24/2022	1/24/2022
22.	Celebration	National Science Day	2/28/2022	2/28/2022
23.	Self Driven	Chunauti-22: Solutions for Smart India Hackathon 2022 (SIH2022)	3/15/2022	3/25/2022
24.	IIC Calender Activity	Workshop on Intellectual Property Rights (IPRs) and IP management for start up	4/26/2022	4/26/2022
25.	Celebration	World Intellectual Property Day	4/26/2022	4/26/2022
26.	Self Driven	Idea Presentation for Development of SMART BIN in the University Campus	4/15/2022	5/2/2022
27.	IIC Calender Activity	Workshop on Prototype/Process Design and Development - Prototyping	4/6/2022	4/6/2022
28.	Self Driven	Disruptive Technologies and Entrepreneurship	5/9/2022	5/9/2022
29.	IIC Calender Activity	Session/ Workshop on Business Model Canvas (BMC)	5/10/2022	5/10/2022
30.	Self Driven	Symposium on Employability	5/18/2022	5/18/2022
31.	Celebration	National Technology Day	5/11/2022	5/11/2022
32.	Self Driven	Visit to Incubation Centre, JCBUST	3/29/2022	3/29/2022
33.	Self Driven	Brainstorming on Innovation in Industries : Manufacturing	5/17/2022	5/17/2022
34.	IIC Calender Activity	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer Centre	5/16/2022	5/16/2022
35.	Self Driven	Financial Structuring	5/20/2022	5/20/2022
36.	Self Driven	Importance of innovation culture in India for overall growth and development of nation	7/22/2022	7/22/2022
37.	Self Driven	Patent Filling Process	7/29/2022	7/29/2022
38.	Self Driven	Design Thinking and Innovation	8/13/2022	8/13/2022



39.	Self Driven	Accelerators/Incubation opportunities for students & faculties “ Early Stage Entrepreneurs	8/19/2022	8/19/2022
40.	Self Driven	Startup and It’s Challenges	8/17/2022	8/17/2022
41.	IIC Calender Activity	Session on Angel Investment/VC Funding Opportunity for Early Stage Entrepreneurs.	8/12/2022	8/12/2022
42.	Celebration	World Entrepreneurs Day	8/23/2022	8/23/2022
43.	IIC Calender Activity	Session/ Panel discussion with innovation and Start-up Ecosystem Enablers from the region/state/national level	8/20/2022	8/20/2022
44.	MIC Driven	Out of the box thinking for problem solving	6/28/2022	6/28/2022
45.	MIC Driven	Building Institute Level YUKTI - National Innovation Repository (NIR)	8/9/2022	8/9/2022
46.	MIC Driven	IIC Annual Report	8/13/2022	8/31/2022
47.	MIC Driven	Participation of IIC Institutions in IIC Regional Meets	7/28/2022	7/28/2022



## INTERNAL COMPLAINT COMMITTEE (ICC) CELL

The ICC cell (erstwhile Women Cell) was established in 2012 in the. The objectives of the cell is:

- To follow the directives of Hon'ble Supreme Court of India for framing and implementing a policy against sexual harassment of women at work place.
  - To uphold Women's Right to Gender Equality; Right to life and liberty, Right to protection against to protection against Sexual Harassment.
  - To actively and regularly promote a social, physical and psychological environment, both within and outside YMCA, which will raise awareness about and deter acts of sexual harassment of women.
- To uphold the commitment of YMCA to provide an environment free of discrimination and violence against women.

### 1. CONSTITUTION

Sr. No.	Name and Designation	Responsibility
1.	Prof. Neetu Gupta	Chairperson
2.	Dr. Anuradha Sharma	Member
3.	Dr. Sapna Gambhir	Member
4.	Dr. Sandhaya Dixit	Member
5.	Dr. Meha Sharma	Member
6.	Mrs. Renu Dagar	Member
7.	Mr. Mukesh Gupta	Member
8.	Dr. Richa Tanwar	External Member
9.	Dr. Darshna Gupta	Women Representative of NGO
10.	Mr. Sahil	Student member
11.	Ms. Anu Kaushik	Student member
12.	Ms. Bharti Godara	Student member

### 2. MEETINGS DURING THE YEAR 2021-22

Sr. No.	Date of Meeting	Agenda of Meeting
1.	16.08.2021	Discuss about various events to be organized in 2020-21
2.	04.01.2022	Discuss about conducting Yoga Camp for students
3.	10.02.2022	Discuss about celebration of Women Day in the University
4.	11.03.2022	Discuss about activities related to Women safety and awareness against Sexual Harassment in the University
5.	11.05.2022	Data regarding NAAC Finalized, Discussion on strengths and gap Analysis

### 3. EVENTS / ACTIVITIES DURING THE YEAR 2021-22

Sr. No.	Name of Activity	Date	Number of Participants
1.	Yoga Camp	21-27 Feb 2022	150
2.	Women Day Celebration	8 March 2022	250
3.	Expert Lecture on Awareness of Girl students regarding Rights of Women	13 April 2022	60
4.	Awareness about use of technology and Durga Shakti App for Women safety	22 April 2022	500





5.	Lecture on awareness of Women Rights against Sexual Harassment in University girls Hostel	13 May 2022	100
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**4. PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE CELL (01/07/2021 TO 30/06/2022)**



Yoga Camp



Women Day Celebration



# **BEST PRACTICES**





## **ACADEMIC AND ADMINISTRATIVE AUDIT**

### **OBJECTIVES OF THE PRACTICE**

The objective of the Academic and Administrative Audit is to assess the performance of the university academic Departments/Offices/Cells and highlight their accomplishments and convey suggestions, if any, so that they can improve further in terms of the quality of their work domain i.e. teaching, research, administration, and maintenance of records along with curricular and extra-curricular activities. The visiting committee members for AAA are supposed to give their suggestions on the various points such as faculty and staff, infrastructural facilities, curricular development, research facilities and research output, teaching methods and use of ICT in academic process, feedback mechanism, faculty development programmes, SWOT analysis, mentoring system, generation of funds and their optimum utilization, evaluation methods adopted for internal and external examinations and Future plans of the department.

### **CONTEXT**

The practice of Academic and Administrative Audit was started in order to address whether;

- 1) the arrangements for quality assurance are fit for purpose and conform to the institution's role and mission.
- 2) the standards of higher education align with the expectations.
- 3) the students have access to appropriate learning opportunities through taught provision, private study and supported learning.
- 4) the department are able to promote and enhance high quality teaching and learning.
- 5) the students are fully supported in their academic and personal development to their highest possible levels.
- 6) the planning, resource allocation and quality management is in line with vision and mission of the University.
- 7) the implementation of various policies has been done.
- 8) the academic calendar of the University is adhered with in terms of timelines.
- 9) the offices and other cells are keeping the records and readily retrievable preferably in hard/soft form or through Enterprise Resource portal (ERP).
- 10) the file movement in various (academic departments and administrative offices) is taking place in timely manner.

### **THE PRACTICE**

#### **(a) Methodology**

The academic departments administrative offices/cells are expected to submit the necessary information in the format provided by the IQAC of the university. The format is prepared in such a way that it includes all the possible information as required by criteria of NAAC. For example, The required information includes the achievements, curricular, co-curricular activities and extra-curricular activities carried out, participation of students in various activities and their achievements and participation of teachers in national and international conferences, seminars and workshops. The funds generated by the faculty and the department, the purpose and the names of the funding agencies and duration of the project.



It also includes individual faculty profile indicating their contribution in teaching, research and extension activities and their achievements, awards and prizes received. It is advised to all the departments that supporting data regarding all the claims made by the department and individuals should also be kept ready in the departments. The departments are advised to keep all the data such as Feedback forms collected from students and other stakeholders on curricular developments, infrastructural facilities and performance of teachers for validation of the committee. Further, the information about consultancy services, collaborations with other reputed universities and institutions, placement records, students admitted and their results in final examinations, mentoring system and financial support provided to students etc. should also be readily available during the visit of AAA committee visit.

### **VISIT OF AAA EXPERT TEAM**

The AAA committee visits the academic and administrative units of the university as per the visit schedule. The detailed visit schedule is informed well in time to all the departments and administrative sections. During the visit to the departments Chairpersons and Head of Sections have the choice to make a brief presentation about the department on all aspects to the AAA committee and/or provide them the details as per format of information already provided to departments. The committee may interact with teaching and non-teaching staff and may observe the infrastructural and academic/research facilities available in the department. The faculty members usually interact individually with the committee and brief them about the innovative methods adopted in teaching and research and efforts taken for improving the quality. The faculty can also impress up on how their department is different than similar departments in other universities. The committee may also interact with the students to have suggestions from them regarding infrastructural facilities available, performance of teachers, evaluation methods adopted and teaching learning process. Although University has a separate feedback mechanism from students for classroom teaching learning process during mid of each semester.

It is expected that all the departments, administrative offices and cells submit the information in the format for providing Departmental information and for Faculty Profile enclosed here with to IQAC office before in the month of July of each year so that the visit of AAA committee could be arranged in the month of August/September.

### **EVIDENCE OF SUCCESS**

The academic audit of the teachers of various departments of the university is in practice since the year 2016. Academic audit is done after the end of every semester by a committee duly approved by the Vice Chancellor and consists of the Chairperson of the department and at least one senior faculty member of another department of the university as an external expert. At the time of start of this practice, it was observed that the faculty members were publishing the papers in poor quality journals. In fact the research paper publications especially the numbers of research papers in Scopus, SCI and Web of Science journals were not significant. As a result of this audit, faculty members were encouraged to contribute in this regard and numbers increased year by year since then. Teachers were also encouraged to use ICT tools for conducting their classes.

A fully indigenous online ERP portal was also created at the university level for better record keeping in terms of individual faculty members' activities/achievements and the departmental activities as well.



In the year 2018-19, audit was carried out for the administrative offices also along with the academic audit. The committee for this audit consisted of External experts and senior faculty members of the university. On the basis of observations made by the committee, suggestions were conveyed to the respective office heads who responded the same by taking appropriate actions thus improving the working of their respective offices. The ATRs were submitted to IQAC later on and were placed and approved in EC.

### **PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED**

One of the many problems faced during the conduct of the academic and administrative audit was the compilation of data due to its timely unavailability to the IQAC office. It was also felt by the committee that even various activities are being done in the academic departments and administrative offices but they are not being recorded as per the guideline of the various accreditation bodies whether it is NAAC or NBA. For regular and smooth conduct of AAA in the university, timely updation of activities conducted in various departments and offices is also needed on the ERP portal.

The University has a number of academic departments and administrative offices so all the academic departments could not be covered during the AAA in the year 2019. It was difficult to take time from the outside experts and schedule the visit. Sometimes even after scheduling the time the committee members were not available.

Some of the departments were not quite prepared for getting the audit conducted and wanted more time for the same. Many departments/cell took more time to take actions towards the suggestions/observations made by the committee which delayed the compilations. For year 2019-20, the process of conduct of academic and administrative audit was delayed due to spread of COVID-19 pandemic.

### **360 DEGREE FEEDBACK**

#### **360° Feedback: Continuous Improvement through Stakeholders' Perspective**

##### **Objectives**

1. To adjust and improve current and future actions and behaviors.
2. Helps understand learning objectives, choose the best strategies for the task, and make course corrections throughout the learning process.
3. To improve the performance of staff and students and increase their future potential and value to the university.

##### **The Context**

###### **1. The questionnaire**

The design of the questionnaire shall be such that the questions are not long and also they incorporate the intent precisely with which it is designed.

###### **2. Getting feedback**

People don't like 'wasting' their time sharing their feedback.

###### **3. Getting right feedback**

Filling feedback forms have always been boring.

##### **The Practice**



Regulatory bodies have mandate to set norms and standards for regulating the quality of educational institutes. Bodies like UGC and NAAC have policies and procedures to orient India’s Education system to quality. Stakeholders need to orient their mindset to quality and then only we can dream of a system – that satisfies all.

Quality vs. Quantity has always been a thought provoking issue. As key stakeholder, students are concerned about the expected outcomes. Since the technical education scenario is drifting from output based system to outcome based system, quality in such processes needs to be addressed. It needs to be ensured that the outcome parameters vis a vis the objectives are mapped and the programmes are in tune with the national policies with reference to the global trend.

Satisfaction of stakeholders including students, faculty, alumni and societal expectations has always been a challenge. Since Quality is a benchmark on road to success and thus the improvement scope is bound to be there in any system.

Some of the best practices at J.C. Bose University of Science and Technology, YMCA include Academic Audit, 360 degree feedback, one semester mandatory Industrial training for students and transparent exam system among others.

**360-degree feedback**, also known as **multi-rater feedback**, **multi source feedback**, or **multi source assessment**, is a process utilized by this university to solicit information from a variety of sources on different aspects. Most often, information solicited in a 360-degree feedback process includes feedback from all the stakeholders of the University. Such feedback can also include, when relevant, feedback from external sources who interact with the University, such as peer group, examiners, alumni etc. 360-degree feedback is so named because it solicits feedback regarding University from a variety of points of view (Students, Alumni, Peers, Industry Experts and Parents).

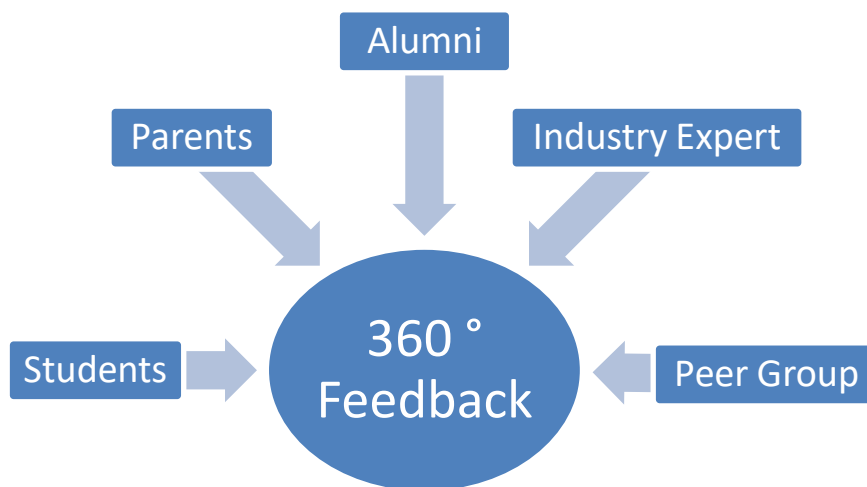


Fig 1: Stakeholders of University for 360° Feedback

The following table depicts the mechanism for feedback collection from various stakeholders



Sr. No.	Stakeholder	Mechanism of Feedback
1.	Student	Students are required to fill-up Feedback Form during semester whereby they are required to give their feedback on relevance, adequacy and coverage of curricula of each subject along with the performance of teacher in the class, teaching methodology and teaching pedagogy etc. Such feedback is taken by the Department based upon which remedial action is taken as when required.
2.	Alumni	Meetings of Alumni are held at least once in a year under the aegis of Alumni Association. Alumni also visit the campus of the University on various occasions and events. Feedback of Alumni is taken in structured feedback form, which includes feedback of relevance and adequacy of curricula, specifically, vis-à-vis their capability to adapt to the world of work after having studied in the Institution.
3.	Employers	Feedback on curricula and performance of Alumni is taken from the employers not only when they visit the campus for conducting campus interviews but also involving them during the curricula finalization.
4.	Parents	Feedback of parents is taken in a structured feedback form as and when they visit on various occasions and events.
5.	Peer Group	External Academic Experts are normally called for delivering Expert Lectures, Selection of Teachers, Workshops, Conferences, Symposia, Faculty Development Programmes, examiners etc., whose feedback on institutional aspects is taken in addition to the relevance and adequacy of infrastructure facilities specifically labs, workshops, library and central computing facilities etc.

In our University, 360° feedback is collected from all the stakeholders by using online or offline mechanisms. Online mechanism for collection of feedback uses online forms for which links are sent to the stakeholders while offline mechanism uses a set Performa to be filled by the stakeholders.

After collecting data from the stakeholders, the response sheet are being generated at department level and analysed thereof by using predefined parameters. Based upon the report, the departments take appropriate action. The department submits a copy of the report along with the action taken to the Internal Quality Assurance Cell (IQAC).

The feedback process is depicted in Fig. 2.

The stakeholders of our University include Students, Parents, Alumni, Industry Experts and Peer Groups. For the purpose of understanding, here only Student feedback is being discussed.

Student Feedback collection activity is conducted by the respective departments in two ways:

- a) Classroom Feedback (conducted in every semester)
- b) Exit survey (conducted once in the final semester)

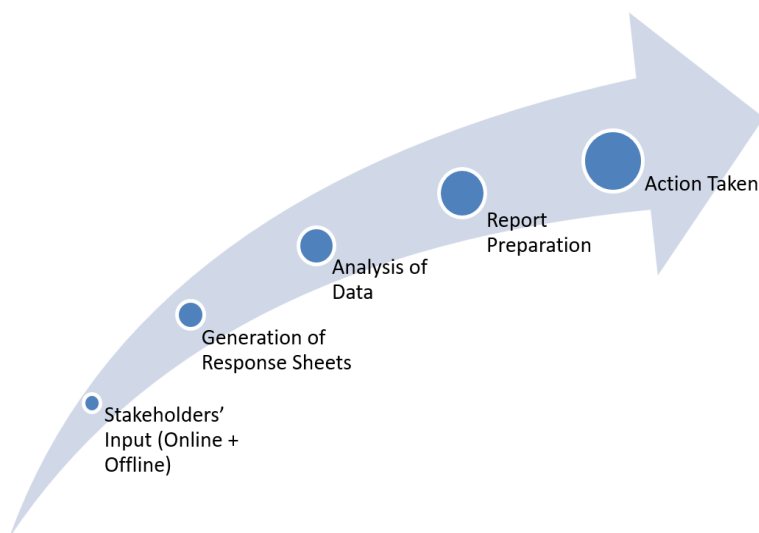


Fig 2: 360 ° Feedback Process

The stakeholders of our University include Students, Parents, Alumni, Industry Experts and Peer Groups. For the purpose of understanding, here only Student feedback is being discussed.

Student Feedback collection activity is conducted by the respective departments in two ways:

- a) Classroom Feedback (conducted in every semester)
- b) Exit survey (conducted once in the final semester)

The predefined parameters for classroom feedback are Subject Matter, Teaching Learning Process, Use of Learning Resources, Evaluation Process and General Points and the question related to each key parameter are given below:

**Subject Matter**

- Was the course planned?
- Was the course coverage adequate?
- Did the topic provide new knowledge?

**Teaching Learning Process**

- Were you able to understand the contents in class?
- Was the interaction in class adequate?
- Were you satisfied with teaching methodology?

**Use of Learning Resources**

- Was the board used effectively?
- Were the projection aids employed effectively?
- Did the overall use of learning resources enhance your understanding?



**Evaluation Process**

- Were adequate assignments/tutorial sheet given?
- Were the assignment and class test challenging?
- Were the same checked properly within seven working days?
- Was the evaluation fair and cleared your doubts?

**General Points**

- Did the teacher meet your expectations?
- Were you satisfied with the course in general?
- Would you like to take another course from the same teacher?

These questions are designed in such a manner that they precisely cover almost all the key parameters.

The responses of the students are collected and analysed at the Department level. The sample screenshots of the responses and their analysis are shown below in Fig. 3 and Fig. 4:

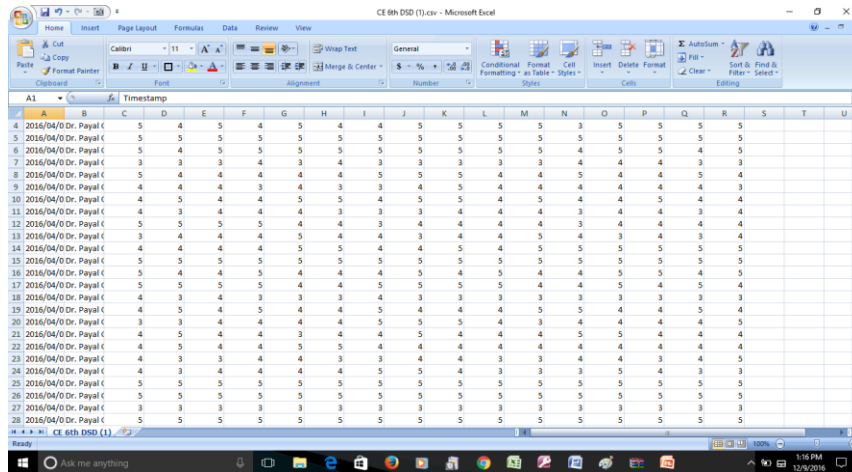


Fig. 3: Sample Responses

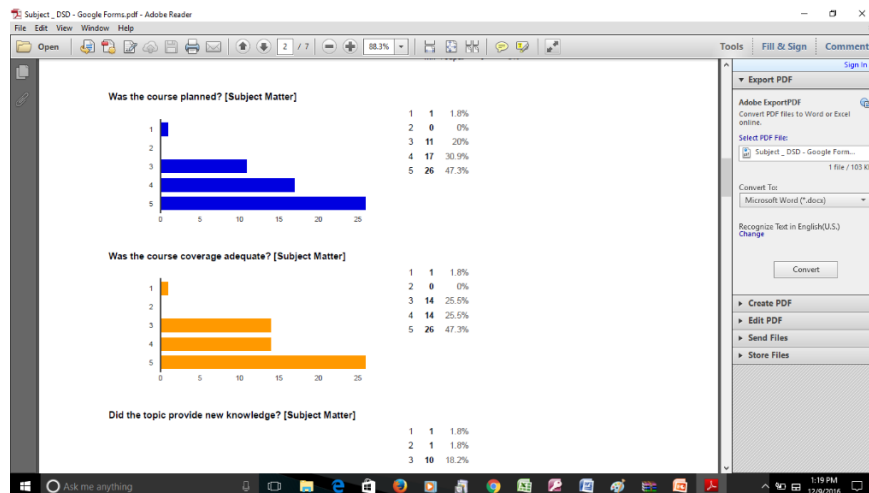


Fig. 4: Sample Analysis



The prime aim of 360° feedback is to ensure that every student has access to competent and qualitative teaching which leads to vibrant academic, social and personal growth. The IQAC regularly monitors the activity along with other quality initiatives. We need to continuously incorporate such Quality Initiatives in our systems and follow them in letter and spirit for satisfaction of stakeholders.

### **Evidence of Success**

Feedbacks always pave a way for continuous improvement. The feedback system has helped in many ways, some of the actions include:

1. Introduction of Credit based system
2. Latest Technologies and practices as elective subjects
3. CBCS
4. Grievance Portal
5. Better Sanitation facilities
6. Improved labs and infrastructure

### **Problems Encountered and Resources Required**

- 1. It was tough to visualize the hard copy of the feedback forms received from various stakeholders.**

To overcome this we used online google forms for data collection and generated analysis report.

### **2. Reporting and Action taken**

By the end of every semester/ academic year, the departments are advised to submit an analysis report along with an action taken report for the same. In case any action is required at the university level, then the Chairperson submits a report for the same to the IQAC for the needful.

### **Notes**

1. For implementing this any level, It is required to identify all of the stakeholders' whose golden inputs are important.
2. Then the questionnaire needs to be designed depending upon key focus areas.
3. A report format based upon the inputs received from the stakeholders shall also be prepared as per the questionnaire that helps in analyzing the feedbacks in a better way.
4. Feedback should be addressed properly. Actions shall be performed or escalated through proper channel.





### **Digital Learning Management System (DLMS)**

In order to facilitate the students to continue their study in the situation posed by corona virus pandemic, University has developed its own 'Digital Learning Management System' to provide the students a platform to access their study material, e-resources and enable them to interact with faculty members through live classes and discussion forums.

Soon after the declaration of complete shut-down of University campus due to COVID-19 pandemic, it was a big challenge before the University to continue the study of students. It was the time, when Digital Cell initiated the process to develop University's own DLMS to continue the teaching learning process in the online mode. DLMS was developed in a short span of time and was launched on 31st March 2020 for adoption by students and teachers of the University. Later, it was upgraded with the facility of live classes, attendance compilation and online test facility also to fulfill all the requirements of teaching-learning process.

The salient features of DLMS are:

- ✓ Easy to use interface for students and teachers
- ✓ Online scheduling facility of official meetings and live lectures
- ✓ Automated scheduling of live classes and attendance compilation
- ✓ Facility to upload the study material by teachers— in the form of recorded lectures, study notes, assignments, online resources
- ✓ Online assignment submission and evaluation facility
- ✓ 24×7 Anytime, Anywhere access to study material without geographic constraints: accessing uploaded lectures and notes
- ✓ Online audio-textual group discussion forums
- ✓ Online audio-video-textual live chat forum for teacher-student interaction
- ✓ Mail broadcasting facility for targeted groups
- ✓ News/announcements broadcasting in-built
- ✓ Quick access to important e-learning platforms (like SWAYAM, NPTEL, National e-library, University's e-library, Course era, Khan Academy etc.)
- ✓ Online test facility—Objective and subjective tests
- ✓ Online proctoring by image capturing facility during tests
- ✓ Overall administrative control on study material, lectures and assessments



# **FACULTIES OF ENGINEERING & TECHNOLOGY**



## DEPARTMENT OF MECHANICAL ENGINEERING





## **1. INTRODUCTION**

The department of Mechanical Engineering has been in existence since inception of institute in 1969. It offered Post- Diploma courses with specialization in three streams viz. i) Machine Tools; ii) Refrigeration and Air-conditioning; iii) Fabrication, Welding and Sheet Metal Technology.

The labs & workshops have been setup with the assistance of German expertise. In 1996, State Govt. of Haryana took complete control of the Institute and upgraded it to University status in Dec. 2009.

The Department of Mechanical Engineering offers courses at UG and PG level. At UG level, B. Tech. course in Mechanical Engineering, started in 1997 with an intake of 60 students and it has been increased 120 students at present. B. Tech. (Hindi Medium) and B. Tech. (Robotics & AI) were started in 2021 with intake of 30. M. Tech. programme in Mechanical Engineering with specialization in Manufacturing Technology and Automation was started from the academic year 2003-04 and has an intake of 18 students. The University had started Ph.D. Course since 2010 and 57 students have registered themselves for the Ph.D. programme in the department.

The Department of Mechanical Engineering has a distinguished record in both teaching and research. The department was shifted to the new building in January 2009 with modern facilities and a dedicated technical and office staff to support the academic programs and research.

The department is actively engaged in research work in the broad area of Design of Mechanical Equipment, Design & Manufacturing, Thermal, Energy Conservation, TQM, Product and Service Quality, Computer Integrated Manufacturing, Manufacturing, Industrial Engineering, Computer Aided Engineering, Just in Time, etc.

The departmental facilities include 16 labs, 3 workshops (Machine Tools, Refrigeration & Air conditioning, Fabrication & Sheet Metal Technology), 8 lecture halls, 1 conference room and 1 seminar hall with Wi-Fi facilities. Department has two centres of excellence in collaboration with Danfoss Industries (P) Ltd. (for Climate and Energy) and Daikin Air-Conditioning (P) Ltd (for Air-Conditioning). The department has highly qualified and experienced faculty including 11 professors, 02 Associate professors and 13 Assistant Professors. 25 of the faculty members are Ph.D. holders with average experience of 18 years approximately.

During last 5 years, faculty members have published more than 500 papers in various National and International Journals and Conferences of repute in India and abroad.

The Mechanical Engineering Department is also highly active in co-curricular and technical activities. Two of its club namely MechNext Club and SAE India YMCA Collegiate Club are actively engaged in practising latest developments for innovative design of automobile vehicles and has won many prizes at National level.

## **2. DEPARTMENT VISION**

“To be a centre of excellence by producing high calibre, competent and self-reliant mechanical engineers, who possess scientific temperament and would engage in activities relevant to industries with ethical values and flair to research”.



### 3. DEPARTMENT MISSION

- To provide efficient engineers for global requirements by imparting quality education.
- To explore, create and develop innovations in various aspects of engineering through industries and institutions.
- To emphasize on practical skills and socially relevant technology.

FACULTY AND DEPARTMENT		
	Name	Tenure
<b>Dean of Faculty:</b>	Prof. (Dr.) M. L. Aggarwal	17.05.2020 to till date
<b>Chairperson of the Departments:</b>	Prof. (Dr.) Raj Kumar	18.05.2020 to till date

### 4. DEPARTMENT HIGHLIGHTS

Courses offered	Existing
<b>UG Course:</b>	B. Tech. (Mechanical Engineering), B. Tech. (Mechanical Engineering) in Hindi, B. Tech. (Robotics & AI)
<b>PG Course:</b>	M. Tech. (Manufacturing & Automation)
<b>PhD</b>	Mechanical Engineering

Sr. No.	COURSE DETAILS	INTAKE
1.	B. Tech.	120 +24 through LEET
2.	B. Tech. (Hindi)	30
3.	B. Tech. (Robotics & AI)	30
4.	M. Tech.	20
5.	PhD	50

STUDENT ENROLLMENT		
	MALE	FEMALE
<b>Total</b>	447	78
<b>UG Course</b>	417	75
<b>PG Course</b>	12	3
<b>PhD</b>	18	0

### 5. FACULTY DETAILS

	Professor	Associate Professor	Assistant Professor	Adjunct/ Visiting Faculty	Total
<b>Male</b>	11	1	12	0	24
<b>Female</b>	0	1	1	0	2
<b>Total</b>	11	2	13	0	26



## 6. FACULTY PROFILE

Sr. No.	Name & Designation	Qualification & Specialization	Total Experience	Publication			Book/Chapter
				SCI/SCIE	SCOPUS	UGC Approved Care/Referred	
1.	Dr. Sandeep Grover, Professor	PhD	34 years	31	61	97	Nil
2.	Dr. M. L. Aggarwal, Professor	PhD	33 Years	10	15	10	4
3.	Dr. Tilak Raj, Professor	PhD	31 years	8	45	80	1
4.	Dr. Raj Kumar, Professor & Chairman	PhD	28 Years	4	6	35	Nil
5.	Dr. Vikram Singh, Professor	PhD	21 Years	17	17	10	1
6.	Dr. Arvind Gupta, Professor	PhD	32 years	10	12	10	3
7.	Dr. Hari Om, Professor	PhD	18 Years	1	1	5	1
8.	Dr. Lakhwinder Singh, Professor	PhD	21 years	2	2	15	Nil
9.	Dr. Vikas Kumar, Professor	PhD	21 years	3	4	8	Nil



10.	Dr. Sanjeev Kumar, Professor	PhD	22 years	6	8	40	Nil
11.	Dr. Vasdev Malhotra, Professor	PhD	22 Years	3	6	25	2
12.	Dr. Sandhya Dixit, Associate Professor	PhD	21 Years	Nil	5	11	1
13.	Dr. Sanjeev Goyal, Associate Professor	Post- Doc	17 years	8	12	25	3
14.	Dr. Mukesh Gupta, Assistant Professor	PhD	17 Years	Nil	1	14	Nil
15.	Dr. Bhaskar Nagar, Assistant Professor	PhD	16 years	3	7	5	Nil
16.	Dr. Rajeev Saha, Assistant Professor	PhD	22 years	2	14	10	4
17.	Dr. Nikhil Dev, Assistant Professor	PhD	17 Years	6	5	5	2
18.	Dr. Rajesh Attri, Assistant Professor	PhD	13 years	15	25	0	0



19.	Dr. Krishan Verma, Assistant Professor	PhD	16 years	3	5	5	6
20.	Dr. Mahesh Chand, Assistant Professor	PhD	12 Years	4	10	22	Nil
21.	Dr. O. P. Mishra, Assistant Professor	PhD	14 years	Nil	14	Nil	3
22.	Sh. Surender Singh, Assistant Professor	M. Tech.	21 Years	Nil	3	2	Nil
23.	Dr. Bhupender Singh, Assistant Professor	PhD	13 years	2	5	5	1
24.	Dr. Shefali Trivedi, Assistant Professor	PhD	10 Years	2	8	8	Nil
25.	Dr. Sanjay Kumar, Assistant Professor	PhD	11 Years	Nil	6	9	2
26.	Dr. Nitin Panwar, Assistant Professor	PhD	9 years	2	3	3	Nil





## 7. NON-TEACHING STAFF

Sr. No.	Name and Designation	Qualification	Date of Joining
1.	Ms. Sapna	Post Graduate (MBA)	26.05.2020 (On Maternity Leave)
2.	Sh. Dinesh Arora, PA to Chairman	B. A.	17.11.1989
3.	Sh. Heera Lal	12th	12.03.2012

## 8. FACULTY MEMBERS SPONSORED FOR STP/COURSES/WORKSHOPS OR CONFERENCES

## 9. DEPARTMENTAL PUBLICATIONS &amp; FDP/STC/WORKSHOP (01/07/2021 - 30/06/2022)

Sr. No.	Particular	Count
1.	Publications in International Journals	3
2.	Publications in International Conferences	1
3.	STC/FDP	4

## 10. PAPER PUBLISHED IN INTERNATIONAL JOURNALS (01/07/2021 - 30/06/2022)

Sr. No.	Name of Faculty	Author, Title, Journal, Volume, Issue, Pages, Year
1.	Sandhya Dixit	Sandhya Dixit, Suman Gothwal and Tilak Raj, "A LAPTOP methodology to evaluate the transition of CMS into FMS: a case study, International Journal of System Assurance Engineering and Management, DOI 10.1007/s13198-021-01224-6, pp. 516-534, Aug, 2021. Web of Sciences, ISSN 0975-6809.
2.	Sandhya Dixit	Arun Chandra Akriti, Sanjeev Goyal and Sandhya Dixit, "Loading Issues in FMS- Interpretive Structural Modeling," Advances and Applications in Mathematical Sciences, Vol. 20, No. 10, Aug 2021, pp. 2197-2213. Web of Sciences, ISSN 0974-6803.
3.	Rajesh Attri	Rajesh Attri and Akanksha Mishra, (2022), "A hybrid decision making framework based on fuzzy PIPRECIA-fuzzy EDAS for failure mode and effects analysis", International Journal of Productivity and Quality Management, 35(4), 473-493.



### 11. PAPER PUBLISHED IN INTERNATIONAL CONFERENCES (01/07/2021- 30/06/2022)

Sr. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1.	Prof. Sandeep Grover	“Material Selection of Steering Rack in ATV Using AHP” International Conference on Advanced Engineering Optimization Through Intelligent Techniques (AEOTIT) 28-30 January 2022, NIT Surat.

### 12. WORKSHOP/STC/INVITED TALKS/WEBINAR/OTHER ACTIVITIES CONDUCTED

(01/07/2021 - 30/06/2022)

Sr. No.	Name of Activity	Title	In collaboration with (if any)	Dates	Name of Coordinator
1.	Workshop	Research for Resurgence Anandshala	RFRF	23 to 24 July, 2021	Dr. Rajeev Kumar Saha
2.	STTP	Research, Researchers and Supervisors: Enhancing Capabilities, Ethics and Relationships	AICTE	23 to 28 March, 2022	Dr. Raj Kumar, Dr. Rajeev Kumar Saha and Dr. O.P. Mishra
3.	STTP	Exergy Analysis in Industrial Applications		25 <sup>th</sup> October to 29 <sup>th</sup> October 2021	Dr Raj Kumar and Dr Nikhil dev

### 13. STC/FDP/WORKSHOP/ SYMPOSIA/ WORKSHOP ATTENDED BY FACULTY MEMBERS

(01/07/2021 TO 30/06/2022)

Sr. No.	Name of Faculty	Name of STC/ FDP	Organized by	Date
1.	Rajeev Kumar Saha	Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College, Ballabgarh	07-07-2021 to 14-07-2021
2.	Rajeev Kumar Saha	Recent Developments in Renewable Energy	Amity University, NOIDA and SERB, DST	20-06-2022 to 24-06-2022
3.	Rajeev Kumar Saha	NEP 2020: Internationalization of Higher Education	Guru Ghasidas Vishwavidyalaya, Bilaspur	30-06-2022
4.	Sandeep Grover	Material Processing Technologies	NITTTR, Chandigarh	6-9-2021 to 10-9-21
5.	Sandhya Dixit	FDP on ‘Cardinal Role of Quality Education in Developing Self-Reliant	IQAC, Aggarwal College, Ballabgarh	07-07-2021 to 14-07-2021



		India'		
6.	Sandhya Dixit	Exergy Analysis in Industrial Applications	JCBUST, YMCA, Faridabad	25.10.2021 to 29.10.2021
7.	Sandhya Dixit	FDP on Engineering Materials	JCBUST, YMCA, Faridabad	24.01.2022 to 30.01.2022
8.	Rajesh Attri	Non- Destructive Testing and Evaluation	National Institute of Technology, Srinagar	26-30 July 2021
9.	Rajesh Attri	Additive Manufacturing: Programming, Operation & Applications	Dr. BR Ambedkar National Institute of Technology Jalandhar	20-24 September, 2021
10.	Rajesh Attri	Engineering Materials	JCBUST, YMCA, Faridabad	24.01.2022 to 30.01.2022

**14. INVITED TALKS/LECTURES DELIVERED BY FACULTY MEMBERS (01/07/2021 - 30/06/2022)**

Sr. No.	Name of Faculty	Topic	Venue	Date
1.	Rajeev Kumar Saha	Research Writing and Professional Ethics	JC Bose UST, YMCA	08-09-21
2.	Rajeev Kumar Saha	Research & Innovations in Engineering	JC Bose UST, YMCA	07/02/2022
3.	Rajeev Kumar Saha	Research Methodology and Data Analysis	B.P.S. Mahila Vishwavidyalaya, Khanpur Kalan, Sonapat	20/02/2022
4.	Rajeev Kumar Saha	AHP using R	ABES Engineering College, Ghaziabad	23-02-2022
5.	Sandeep Grover	NEP 2020	NITTTR Chandigarh	02-07-2021
6.	Sandeep Grover	Promoting Quality Culture in HEIs for global competence	Aggarwal College, Ballabgarh	13-07-2021
7.	Sandeep Grover	Industry Academia Handshake	Women Polytechnic, Agartala	24-09-2021
8.	Sandeep Grover	Contribution of University	DST, Haryana	28-09-2021



		towards STI ecosystem of Haryana		
9.	Sandeep Grover	Awareness session on “NAAC Accreditation Process”	CDL SIET, Panniwala Mota	29-11-2021
10.	Sandeep Grover	Introspection of Outcome based education	MRIIRS, Faridabad	10-1-2022
11.	Sandeep Grover	NEP-2020 relevance for Curriculum Implementation	NITTTR Chandigarh	24-02-2022
12.	Sandeep Grover	Session for improving its academic practices	IIIT Delhi	05-03-2022
13.	Sandeep Grover	“Promoting Quality Culture in HEIs” in NAAC sponsored workshop	GHRIET, Nagpur	04-04-2022
14.	Sandeep Grover	NEP 2020	NIT Uttarakhand	26-05-2022
15.	Sandeep Grover	NEP 2020” during AICTE approved STTP on “Advances in Manufacturing Technology: CNC & Robotics” organized by Department of Mechanical Engineering (12-16 July 2021)	JC Bose UST, YMCA	15-07-2021
16.	Sandeep Grover	Promoting Quality Culture in HEIs” during	JC Bose UST, YMCA	26-08-2021



		One day seminar on “Modern Trends in Quality Education” organized by Deptt. Of Chemistry/ IQAC in association with IGU, Meerpur		
17.	Raj Kumar	Exergy Analysis in Industrial Applications	JC Bose UST, YMCA	29-10-2021

**15. WHETHER MENTOR/MENTEE MEETING HELD REGULARLY: YES**

**16. OUTSTANDING ACHIEVEMENTS 2020-2021**

1. Successfully organized STTP, STC, FDP in various fields of Mechanical Engineering.

**17. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES**

The department is well equipped with the following facilities:

Sr. No.	Facility	Existing
1.	Labs	16
2.	Workshops	3
3.	Lecture Halls	8
4.	Smart Classroom	3
5.	Conference Room	1
6.	Seminar Halls/Projector Rooms/Research Lab	1/ 8/ 1
7.	Internet Connection	Wi- Fi
8.	LCD /LED	3
9.	ICT (Projector/OHP/Interactive Board)	24
10.	Any Other Facility	-

**18. DETAIL OF PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE DEPARTMENT (01/07/2021 TO 30/06/2022)**

Workshop	Research for Resurgence Anandshala	RFRF	23 to 24 July, 2021	Dr. Rajeev Kumar Saha
STTP	Research, Researchers and Supervisors: Enhancing Capabilities, Ethics and	AICTE	23 to 28 March, 2022	Dr. Raj Kumar, Dr. Rajeev Kumar Saha and Dr. O.P. Mishra



	Relationships			
STTP	Exergy Analysis in Industrial Applications		25.10.2021 to 29.10.2021	Dr Raj Kumar and Dr Nikhil dev

### 19. DETAILS OF STUDENTS QUALIFYING COMPETITIVE EXAMS (GATE/CAT/ OTHER EXAM ETC.) (01/07/2021 TO 30/06/2022)

Name of Student	University Roll Number	GATE Registration Number	GATE Score	All India Rank of GATE
Krishan Kumar	18001013054	ME22S83004041	669	1391
Akshat Bhatia	18001013014	ME22S73004164	351	12184
Rahul kadyan	18001013081	XH22S43033176	703	33
Vinay kumar	19001013517	ME22S73004108	405	8987
Sourabh Gupta	18001013111	ME22S83004069	421	8163
Karan Bhakuni	18001013052	ME22S73004339	672	1376
Pankaj	18001013071	XE22S63004197	639	307
Anil Kumar	18001013019	ME22S88021086	398	9349
Hitesh	18001013045	ME22S83007007	362	11386
Roshan Kumar Jha	18001013087	ME22S74043068	420	8245
Mahak	18001013058	ME22S73004048	532	4318
Sachin panwar	18001013090	ME22S73004188	333	13552
Sneha	18001013109	ME22S78043014	737	642
Simran	18001013107	ME22S88020037	744	591
Nisha	18001013066	ME22S73004084	355	11917

### 20. OUTSTANDING ACHIEVEMENTS 2020-2021

Successfully organized STTP, STC, FDP & Expert Lectures in various fields of Mechanical Engineering.

- Value Added Training Programme on the basics of Automobiles (4.10.2021- 6.10.2021)
- Training Programme on Refrigeration & Air- conditioning (27.9.2021- 1.10.2021)
- Free Vehicle health check- up camp (14.10.2021)
- STC on Exergy Analysis in Industrial Applications (25.10.2021- 29.10.2021)
- STTP on Research, Researchers and Supervisors: Enhancing ethics, capabilities and relationships (23.3.2022- 28.3.2022)
- Expert Lecture on I. C. Engines (4.4.2022 & 5.4.2022)
- Expert Lecture on Engine Management System (18.4.2022 & 19.4.2022)
- Expert Lecture on Exhaust Gas Treatment (20.4.2022 & 25.4.2022)
- Expert Lecture on Fuel Injection System (18.5.2022)

### 21. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES

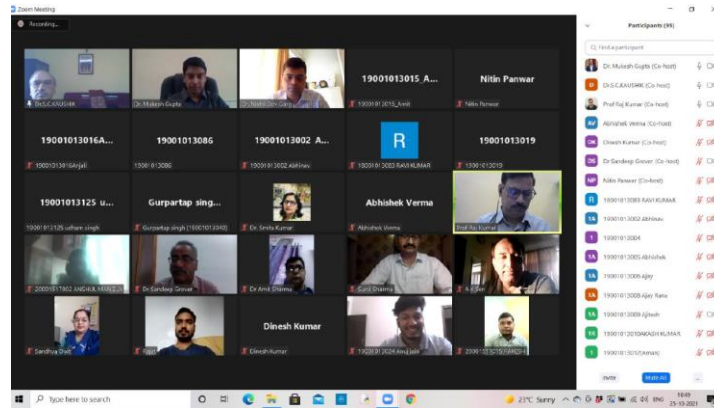
The department is well equipped with the following facilities:



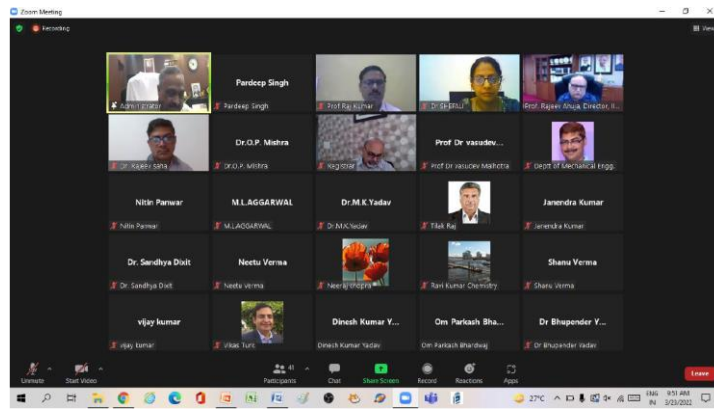
Sr. No.	Facility	Existing	Added*
1.	Labs	16	-
2.	Workshops	3	-
3.	Lecture Halls	8	-
4.	Smart Classroom	3	-
5.	Conference Room	1	-
6.	Seminar Halls/Projector Rooms/Research Lab	1/ 8/ 1	-
7.	Internet Connection	Wi- Fi	-
8.	LCD /LED	3	-
9.	ICT (Projector/OHP/Interactive Board)	24	-
10.	Any Other Facility	-	-

**22. DETAIL OF PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE DEPARTMENT (01/07/2021 TO 30/06/2022)**

Workshop	Research for Resurgence Anandshala	RFRF	23 to 24 July, 2021	Dr. Rajeev Kumar Saha
STTP	Research, Researchers and Supervisors: Enhancing Capabilities, Ethics and Relationships	AICTE	23 to 28 March, 2022	Dr. Raj Kumar, Dr. Rajeev Kumar Saha and Dr. O.P. Mishra
STTP	Exergy Analysis in Industrial Applications		25.10.2021 to 29.10.2021	Dr Raj Kumar and Dr Nikhil dev



STC on Exergy Analysis in Industrial Applications



STTP on Research, Researchers and Supervisors: Enhancing Capabilities, Ethics and Relationships





# DEPARTMENT OF ELECTRONICS ENGINEERING





## 1. INTRODUCTION

The Department of Electronics Engineering is committed to impart technical education in the most efficient manner to its students. It was established in the year 2012 (earlier combined with the Electrical Engineering Department and known as the EEE Department running since the inception of YMCAIE). The department has equipped itself with workshops/labs and a syllabus for achieving engineering education excellence, from the support of the excellent faculty of the Department, the syllabus of the Department is composed of fundamental concepts blended with the ultra-modern topic to impart quality technical education, the lab/workshops consist of the basic instrument to software/simulators for providing the student a feel of the industrial work environment.

Department of Electronics Engineering is running various UG, PG, and Ph.D. programs.

## 2. DEPARTMENT VISION

To be a Centre of Excellence for producing high-quality engineers and scientists capable of providing sustainable solutions to complex problems and promoting cost-effective indigenous Technology in the area of Electronics, Communication & Control Engineering for Industry, Research Organizations, Academia, and all sections of society.

## 3. DEPARTMENT MISSION

1. To frame a well-balanced curriculum with an emphasis on basic theoretical knowledge as well as the requirements of the industry.
2. To motivate students to develop innovative solutions to existing problems for the betterment of society. Collaboration with the industry, research establishments, and other academic institutions to bolster research and development activities.
3. To provide infrastructure and financial support for the culmination of novel ideas into useful prototypes.
4. To promote research in emerging and interdisciplinary areas and act as a facilitator for knowledge generation and dissemination through Research, Institute - Industry and Institute-Institute interaction.

<b>Faculty and Department</b>		
	<b>Name</b>	<b>Tenure</b>
Dean of Faculty	Prof. M. L. Aggarwal	18.05.2020 to till now
Chairperson of the Departments	Prof. Pradeep Kumar	From 19.11.2021 to till date



#### 4. DEPARTMENT HIGHLIGHTS

Courses Offered	Existing	Newly Added
UG Course:	B. Tech. (Electronics Communication Engineering) B.Tech. (Electronics Engineering with specialization in IOT) B.Tech. (Electronics & Computer Engineering)	Nil
PG Course:	M. Tech. (Electronics & Communication Engineering) M.Tech.(VLSI Design)	Nil
PhD	Electronics Engineering	Nil

Sr. No.	Course Details	Intake
1.	B. Tech. (Electronics Communication Engineering)	60+Lateral Entry
2.	B.Tech.(Electronics Engineering with specialization in IOT)	60+Lateral Entry
3.	B.Tech. (Electronics & Computer Engineering)	60+Lateral Entry
4.	M. Tech. (Electronics & Communication Engineering)	18
5.	M.Tech.(VLSI Design)	18

Student Enrollment		
	MALE	FEMALE
Total	545	212
UG Course	527	193
PG Course	9	5
PhD	9	14

#### 5. FACULTY DETAILS

	Professor	Associate Professor	Assistant Professor	Adjunct/Contractual/ Visiting Faculty	Total
Male	02	01	08	00	11
Female	01	00	13	05	19
Total	03	01	21	05	30



## 6. FACULTY PROFILE

Sr. No.	Name & Designation	Qualification & Specialization	Total Experience	Publication			Book/Chapter
				SCI/SCIE	SCOPUS	UGC Approved Care/Referred	
1.	Prof. MunishVashishath (Professor)	Ph.D. Semiconductor Devices	20	09	12	72	
2.	Dr. Neelam Turk (Professor & Chairperson)	Ph.D. Signal Processing	15	03	15	13	
3.	Dr. Pradeep Kumar Dimri (Associate Professor)	Ph.D. Embedded System	29	05	01	12	
4.	Dr. Shailender Gupta (Associate Professor)	Ph.D. Networking, Image Processing	16	17	34	50	01
5.	Dr. Dushyant Shukla (Assistant Professor)	Ph.D. Signal Processing	18	0	01	05	N/A
6.	Ms. Archana Agarwal (Assistant Professor)	M.Tech Communication Engg.	18	0	5	2	
7.	Ms. Archana Aggarwal (Assistant Professor)	M.Tech Control Systems	14	0	0	2	
8.	Mr. Bharat	M.Tech	16	0	0	25	01



	Bhushan (Assistant Professor)	Electronics Engineering					
9.	Dr. Bal Krishan (Assistant Professor)	M.Tech Nano Electronics	17	1	7	4	
10.	Ms. Nitin Sachdeva (Assistant Professor)	M.Tech VLSI Design	16	1	3	8	
11.	Ms Sangeeta Dhall (Assistant Professor)	M.Tech Network Security, Embedded System	17	7	6	01	
12.	Dr. Preet Kaur (Assistant Professor)	Ph.D. Antenna	15	02	05	10	
13.	Ms. Neetu Gupta (Assistant Professor)	M.Tech Video Processing	16	01	02	03	
14.	Ms. Priyanka (Assistant Professor)	M.Tech Communication Engg	16	01	02	02	
15.	Mr. Vinod Rathor (Assistant	M.Tech. Control System	16	0	0	0	N/A



	Professor)						
16.	Mr. Prashant Kumar (Assistant Professor)	M.Tech. VLSI Design	14	03	08	10	N/A
17.	Ms. Sonam Khatter (Assistant Professor)	M.Tech. ECE	14	02	03	02	N/A
18.	Dr. Sheilza Jain (Assistant Professor)	Ph.D. Control System	15	03	06	02	N/A
19.	Dr. Rashmi Chawla (Assistant Professor)	Ph.D. VLSI Design, IoT, Photovoltaic Devices	14	08	15	07	N/A
20.	Ms. Gunjan Sardana (Assistant Professor)	M.Tech Communication	14	0	1	04	N/A
21.	Ms. Kalpana Sheokand (Assistant Professor)	M.Tech. Signal Processing	14	0	1	7	N/A
22.	Mr. Lalit Rai (Assistant Professor)	M.Tech. Control System	13	0	1	05	N/A
23.	Dr. Sunil Jadav (Assistant Professor)	Ph.D. VLSI Design & Automation	13	10	03	0	01
24.	Dr. Rohit Tripathi (Assistant Professor)	Ph.D. IoT	13	8	28	2	N/A
25.	Ms. Manju Kumari (Assistant	M.Tech. Image Processing	11	04	03	02	0



	Professor)						
26.	Ms. Nisha Yadav (Assistant Professor)	M.Tech. VLSI Design	6	1	1	0	1

## 7. NON-TEACHING STAFF

Sr. No.	Name and Designation	Qualification	Date of Joining
1.	Sh. Lalit Mohan (Hos)	M.Tech	15.07.1994
2.	Dr. Dharamvir (Hos)	M.Tech, Ph.D	13.07.1992
3.	Ms. Kusum Arora (Sr. Instructor)	M.Tech	04.10.2006
4.	Ms. Poulani Jana (Instructor)	Diploma, AMIE	01.02.2008
5.	Sh. Mukesh Kumar (Sr. Instructor)	M.Tech	06.10.2006
6.	Sh. Vijay Kumar (Instructor)	M.Tech	02.08.2006
7.	Ms. Dipika Mandal (Instructor)	M.Tech	25.01.2008
8.	Ms. LavitaVirmani (Instructor)	M.Tech	11.07.2014
9.	Mr. Ram Avtar (Technician)	Diploma, BE	02.08.2006
10.	Sh. Varinder Singh (Technician)	Diploma, AMIE	22.03.2012
11.	Sh. Baij Nath (Technician)	M.Tech	09.07.2013
12.	Mr. Virender Singh (Lab Assistant)	Diploma	09.08.2019
13.	Mr. Om Prakash (Sr. Technician)	Diploma	16.04.2016

## 8. FACULTY MEMBER COMPLETED PHD DURING THE YEAR

Sr. No.	Facility Name	Discipline	Topic	Awarding Year	Institution
1.	Prashant Kumar	Electronics Engineering	Analytical Study of MOS Device for Leakage Reduction in Low Power Circuit	2021-22	J C Bose University of Science & Technology Faridabad
2.	Nitin Sachdeva	Electronics Engineering	Modeling Estimation and Reduction of total Leakage in Scaled CMOS Logic Circuits	2021-22	J C Bose University of Science & Technology Faridabad
3.	Sonam Khera	Electronics Engineering	Analysis and implementation of energy-efficient wireless sensor networks	2021-22	J C Bose University of Science & Technology Faridabad
4.	Dushyant Shukla	Electronics Engineering	Some investigation into noise analysis of electronic circuits	2021-22	J C Bose University of Science & Technology Faridabad



5.	Priyanka	Electronics Engineering	Magnetic field analysis for health monitoring of induction motor using search coil	2021-22	J C Bose University of Science & Technology Faridabad
6.	Kalpana Sheokand	Electronics Engineering	Effects of time-varying and constant loads on effectiveness of fault detection methods of electrical machines	2021-22	J C Bose University of Science & Technology Faridabad

### 9. FACULTY MEMBERS SPONSORED FOR STP/COURSES/WORKSHOPS OR CONFERENCES

Sr. No.	Facility Name	Course/Workshop/Conferences	Sponsored by	Date
1.	Ms. Archana Aggarwal	FDP	Jamia Millia Islamia ,New Delhi	17.06.2021-12.06.2021
2.	Dr. Bal Krishan	FDP	J.C. Bose UST Fbd	25.10.2021-29.10.2021
3.	Dr. Sheilja Jain	FDP	AISSMS Colleges of Engineering, Pune	18.07.2021
4.	Dr. Sheilja Jain	FDP	J.C. Bose UST Fbd	20.12.2021-25.12.2021
5.	Mr. Lalit Rai	Training (online)	NITTR, CHANDIGARH	04.09.2021-10.09.2021
6.	Dr. Nitin Sachdeva	Training (online)	GJU, Hissar	25.10.2021-30.10.2021
7.	Dr. Prashant Kumar	Training (online)	J.C. Bose UST Fbd	07.09.2021-13.09.2021
8.	Dr. Rohit Tripathi	Training (online)	IGNOU, New Delhi	23.08.2021-27.08.2021
9.	Dr. Archana Aggarwal	FDP online	J.C. Bose UST Fbd	24.01.2022-29.01.2022
10.	Ms. Gunjan Sardana	FDP online	J.C. Bose UST Fbd	24.01.2022-29.01.2022
11.	Ms. Kalpana	FDP online	J.C. Bose UST Fbd	24.01.2022-29.01.2022
12.	Dr. MunishVashishath	FDP online	J.C. Bose UST Fbd	24.01.2022-29.01.2022
13.	Ms. Archana Aggarwal	FDP online	J.C. Bose UST Fbd	24.01.2022-29.01.2022





14.	Ms. Sonam Khera	FDP online	J.C. Bose UST Fbd	24.01.2022- 29.01.2022
15.	Ms. Manju Kumari	FDP online	J.C. Bose UST Fbd	24.01.2022- 29.01.2022
16.	Ms. Sangeeta Dhall	FDP online	J.C. Bose UST Fbd	24.01.2022- 29.01.2022

#### 10. DEPARTMENTAL PUBLICATIONS & FDP/ STC/ WORKSHOP

Sr. No.	Particular	Count
1.	Publications in International Journals	31
2.	Publications in National Journals	00
3.	Publications in International Conferences	05
4.	Publications in National conferences	00
5.	Workshop	04
6.	STC/FDP	16

#### 11. PAPER PUBLISHED IN INTERNATIONAL JOURNALS

Sr. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
1.	Dr. Sheilza Jain	Sheilza Jain, Megha Chambyal, "Development and analysis of inverted-V MPPT technique for photovoltaic system," INFORMATION TECHNOLOGY IN INDUSTRY, vol. 9, no. 1, pp. 179–190, 2021. DOI: <a href="https://doi.org/10.17762/itii.v9i1.117">https://doi.org/10.17762/itii.v9i1.117</a>
2.	Ms. Sangeeta Dhall & Dr. Shailender Gupta	Sangeeta Dhall and Shailender Gupta, "Multilayered highly secure authentic watermarking mechanism for medical applications," Multimedia Tools and Applications, SPRINGER, vol. 80, no. 12, pp. 18069–18105, 2021. <a href="https://doi.org/10.1007/s11042-021-10531-w">https://doi.org/10.1007/s11042-021-10531-w</a>
3.	Dr. Shailender Gupta	Anjali Malik, Sunil Jadav and Shailender Gupta, "Assessment of diverse image encryption mechanisms under prevalent invasion," Multimedia Tools and Applications, SPRINGER, vol. 80, no. 14, pp. 21521–21559, 2021. <a href="https://doi.org/10.1007/s11042-021-10670-0">https://doi.org/10.1007/s11042-021-10670-0</a>
4.	Dr. Sheilza Jain	Ritika Thusoo, Sheilza Jain and Sakshi Bangia, "Quadrotors in the present era: A Review," INFORMATION TECHNOLOGY IN INDUSTRY, vol. 9, no. 1, pp. 164–178, 2021.
5.	Ms. Sangeeta Dhall & Dr. Shailender Gupta	Priya Panwar, Sangeeta Dhall and Shailender Gupta, "A multilevel secure information communication model for Healthcare Systems," Multimedia Tools and Applications, vol. 80, no. 5, pp. 8039–8062, 2020. <a href="https://doi.org/10.1007/s11042-020-10083-5">https://doi.org/10.1007/s11042-020-10083-5</a>



6.	Dr. Sheilza Jain	Ritika Thusoo, Sheilza Jain and Sakshi Bangia, “An evaluation of UAV path following and collision avoidance using NFMGOA control algorithm,” Wireless Personal Communications, vol. 122, no. 2, pp. 1247–1266, 2021. <a href="https://doi.org/10.1007/s11277-021-08947-6">https://doi.org/10.1007/s11277-021-08947-6</a>
7.	Ms. Sangeeta Dhall & Dr. Shailender Gupta	Anjali Malik, Sangeeta Dhall and Shailender Gupta, “An improved bit plane image encryption technique using RC4 and quantum chaotic demeanour,” Multimedia Tools and Applications, vol. 80, no. 5, pp. 7911–7937, 2020. <a href="https://doi.org/10.1007/s11042-020-09973-5">https://doi.org/10.1007/s11042-020-09973-5</a>
8.	Dr. Rashmi Chawla & Dr. Shailender Gupta	Hardik Dhingra, Gagan Deep Dhand, Rashmi Chawla and Shailender Gupta, “An integrated service model to support user specific QoS routing in cognitive radio ad hoc network,” Peer-to-Peer Networking and Applications, vol. 14, no. 1, pp. 18–29, 2020. <a href="https://doi.org/10.1007/s12083-020-00965-8">https://doi.org/10.1007/s12083-020-00965-8</a>
9.	Dr. Rashmi Chawla	Aryan, Navdeep Sharma, Bhawna and Rashmi Chawla, “Analysis of cooling approach with cost effectiveness for free-standing photovoltaic panel: A comprehensive review,” Transactions on Electrical and Electronic Materials, vol. 22, no. 1, pp. 23–46, 2021. <a href="https://doi.org/10.1007/s42341-020-00280-2">https://doi.org/10.1007/s42341-020-00280-2</a>
10.	Dr. Shailender Gupta	Anjali Malik, Sunil Jadav and Shailender Gupta, “Assessment of diverse image encryption mechanisms under prevalent invasion,” Multimedia Tools and Applications, vol. 80, no. 14, pp. 21521–21559, 2021. <a href="https://doi.org/10.1007/s11042-021-10670-0">https://doi.org/10.1007/s11042-021-10670-0</a>
11.	Dr. Rashmi Chawla	Rashmi Chawla, Poonam Singhal and Amit Kumar Garg, “Career selective SI solar cells: Modelling and Performance Metrics Evaluation,” Transactions on Electrical and Electronic Materials, vol. 22, no. 5, pp. 659–665, 2021. <a href="https://doi.org/10.1007/s42341-020-00281-1">https://doi.org/10.1007/s42341-020-00281-1</a>
12.	Dr. Rohit Tripathi	Rohit Tripathi, G.N.Tiwari, T.S.Bhatti and Manoj K.Shukla, “Comparison of electrical energy and power of PV with different cells materials in Clear Sky Day condition,” Materials Today: Proceedings, vol. 48, pp. 693–696, 2022. <a href="https://doi.org/10.1016/j.matpr.2021.09.072">https://doi.org/10.1016/j.matpr.2021.09.072</a>
13.	Dr. Sheilza Jain	Ritika Thusoo, Sheilza Jain and Sakshi Bangia, “Control of non-linear quadrotor using PID and backstepping techniques,” International Journal of Engineering Trends and Technology, vol. 69, no. 7, pp. 167–173, 2021. <a href="https://doi.org/10.14445/22315381/IJETT-V69I7P223">https://doi.org/10.14445/22315381/IJETT-V69I7P223</a>



14.	Dr. Shailender Gupta	Om Dev Singh, Anjali Malik, Vishakha Yadav, Shailender Gupta and Shirin Dora, "Deep Segmenter system for recognition of micro cracks in solar cell," Multimedia Tools and Applications, vol. 80, no. 5, pp. 6509–6533, 2020. <a href="https://doi.org/10.1007/s11042-020-09915-1">https://doi.org/10.1007/s11042-020-09915-1</a>
15.	Dr. Prashant Kumar	Neeraj Gupta and Prashant Kumar, "Elicitation of scattering parameters of dual-halo dual-dielectric triple-material surrounding gate (DH-DD-TM-SG) MOSFET for microwave frequency applications," Advances in Electrical and Electronic Engineering, vol. 19, no. 1, 2021. DOI: 10.15598/aeee.v19i1.3788
16.	Dr. Sunil Jadav and Munish Vashishath	Sunil Jadav, Shubham Tayal, Rajeevan Chandel and Munish Vashishath, "High speed RLC equivalent RC delay model using normalized asymptotic function for Global VLSI interconnects," Microelectronics Journal, vol. 107, p. 104941, 2021. <a href="https://doi.org/10.1016/j.mejo.2020.104941">https://doi.org/10.1016/j.mejo.2020.104941</a>
17.	Dr. Shailender Gupta	Reema Ganotra, Shirin Dora and Shailender Gupta, "Identifying brain regions contributing to alzheimer's disease using self-regulating particle swarm optimization," International Journal of Imaging Systems and Technology, vol. 31, no. 1, pp. 106–117, 2020. <a href="https://doi.org/10.1002/ima.22458">https://doi.org/10.1002/ima.22458</a>
18.	Mr. Lalit Rai	Lalit Rai and S. K. Agarwal, "IMC based water level control of drum boiler system", International Journal of Electrical Engineering and Technology (IJEET), Vol. 12, Issue 1, pp. 43-49, 2021. DOI: 10.34218/IJEET.12.1.2021.005
19.	Dr. Neelam Turk	Vatsal Gupta, Sonam Khera and Neelam Turk, "MQTT protocol employing IOT based home safety system with ABE Encryption," Multimedia Tools and Applications, vol. 80, no. 2, pp. 2931–2949, 2021. <a href="https://doi.org/10.1007/s11042-020-09750-4">https://doi.org/10.1007/s11042-020-09750-4</a>
20.	Ms. Sangeeta Dhall & Dr. Shailender Gupta	Sangeeta Dhall and Shailender Gupta, "Multilayered highly secure authentic watermarking mechanism for medical applications," Multimedia Tools and Applications, vol. 80, no. 12, pp. 18069–18105, 2021. <a href="https://doi.org/10.1007/s11042-021-10531-w">https://doi.org/10.1007/s11042-021-10531-w</a>
21.	Dr. Sheilza Jain	Savita Lohat, Rajender Kumar and Sheilza Jain, "Optimised Delay and Basic Safety Messages in Fog Computing using Extended Grey Wolf Optimisation (Egwo)", Webology, ISSN: 1735-188X, Vol. 18, Number 6, 2021.
22.	Dr. Neelam Turk and Dr. Sonam Khera	Neelam Turk, Sangeeta Kamboj, Sonam Khera and Neha Rajput, "Performance analysis of different restoration techniques for degraded 3D cervical spine MRI image," Biomedical and Pharmacology Journal, vol. 14, no. 02, pp. 853–867, 2021. <a href="https://dx.doi.org/10.13005/bpj/2188">https://dx.doi.org/10.13005/bpj/2188</a>



23.	Ms. Manju Kumari and Dr. Shailender Gupta	Manju Kumari and Shailender Gupta, "Performance comparison between Chaos and Quantum-chaos based image encryption techniques," Multimedia Tools and Applications, vol. 80, no. 24, pp. 33213–33255, 2021. <a href="https://doi.org/10.1007/s11042-021-11178-3">https://doi.org/10.1007/s11042-021-11178-3</a>
24.	Dr. Rohit Tripathi	Anisha, Munish Sabharwal and Rohit Tripathi, "RECENT DETECTION AND PREDICTION METHODS FOR URINARY TRACT INFECTION IN HUMANS: A DETAILED REVIEW", Journal of Tianjin University Science and Technology, ISSN (Online): 0493-2137, Vol.55, Issue-03, 2022. DOI 10.17605/OSF.IO/PSUFH
25.	Dr. Rohit Tripathi	Danish Ather, Suman Madan, Manjushree Nayak, Rohit Tripathi, Ravi Kant, Sapna Singh Kshatri, and Rituraj Jain, "Selection of smart manure composition for smart farming using artificial intelligence technique," Journal of Food Quality, vol. 2022, pp. 1–7, 2022. <a href="https://doi.org/10.1155/2022/4351825">https://doi.org/10.1155/2022/4351825</a>
26.	Dr. Prashant Kumar and Dr. Munish Vashishath	Prashant Kumar, Munish Vashisht, Neeraj Gupta and Rashmi Gupta, "Subthreshold current modeling of stacked dielectric triple material cylindrical gate all around (SD-tm-CGAA) junctionless MOSFET for low power applications," Silicon, 2021. <a href="https://doi.org/10.1007/s12633-021-01399-4">https://doi.org/10.1007/s12633-021-01399-4</a>
27.	Dr. Rohit Tripathi	Anisha, Munish Sabharwal and Rohit Tripathi, "Urinary Tract Infection using Machine Learning based Classification and ANN: A study of Prediction", Computer & Education (Elsevier), Vol. 184, pp. 504-535, 0360-1315, 2022.
28.	Dr. Pradeep Kumar Dimri	Vikram Singh, Sarvesh Kumar, Pradeep Kumar Dimri, "Comparative analysis of XPM induced crosstalk due to 4OD coefficient in SCM-WDM Link," Optik, vol. 241, p. 166924, 2021. <a href="https://doi.org/10.1016/j.ijleo.2021.166924">https://doi.org/10.1016/j.ijleo.2021.166924</a>
29.	Dr. Munish Vashishath	Taruna Sharma, Parikshit Vasisht, Munish Vashishath, Ravi Chandra, Rajveer Singh Yaduvanshi and Neela Chatteraj, "A novel hybrid ultra-wideband radio sensor for primitive stage detection of breast cancer," International Journal of Information Technology, vol. 13, no. 3, pp. 983–988, 2021. <a href="https://doi.org/10.1007/s41870-021-00641-x">https://doi.org/10.1007/s41870-021-00641-x</a>
30.	Dr. Prashant Kumar and Dr. Munish Vashishath	Prashant Kumar, Munish Vashishath, Neeraj Gupta and Rashmi Gupta, "High-K dielectric double gate junctionless (DG-JL) MOSFET for Ultra Low Power applications- analytical model," Silicon, 2022. <a href="https://doi.org/10.1007/s12633-021-01525-2">https://doi.org/10.1007/s12633-021-01525-2</a>



31.	Dr. Munish Vashishath	Taruna Sharma, Munish Vasishath, Parikshit Vasisht, Amber Khan, Moin Uddin and Rajveer Singh Yaduvanshi, “A versatile Ultra-Wideband radio sensor for early stage detection of breast cancer,” MAPAN, vol. 37, no. 1, pp. 137–147, 2021. <a href="https://doi.org/10.1007/s12647-021-00504-7">https://doi.org/10.1007/s12647-021-00504-7</a>
32.	Dr. Munish Vashishath	Surinder Singh, Dinesh Kumar, Munish Vashishath, Jaspreet Singh & Manish Kumar Hooda, “Investigation of CMOS compatible titanium nitride-based microheater for microthrusters,” ISSS Journal of Micro and Smart Systems, 2022. <a href="https://doi.org/10.1007/s41683-022-00097-6">https://doi.org/10.1007/s41683-022-00097-6</a>
33.	Dr. Munish Vashishath	Taruna Sharma, Gaurav Varshney, R. S. Yaduvanshi and Munish Vashishath, “Modified koch borderline monopole antenna for thz regime,” Optical and Quantum Electronics, vol. 54, no. 5, 2022. <a href="https://doi.org/10.1007/s11082-022-03687-8">https://doi.org/10.1007/s11082-022-03687-8</a>
34.	Dr. Neelam Turk	Chaya Grover and Neelam Turk, “A novel fault diagnostic system for rolling element bearings using deep transfer learning on Bispectrum contour maps,” Engineering Science and Technology, an International Journal, Elsevier, vol. 31, p. 101049, 2022. <a href="https://doi.org/10.1016/j.jestch.2021.08.006">https://doi.org/10.1016/j.jestch.2021.08.006</a>
35.	Dr. Sunil Jadav and Dr. Bal Krishan	Shubham Tayal, Sandip Bhattacharya, J. Ajayan, Laxman Raju Thoutam, Deboraj Muchahary, Sunil Jadav, Bal Krishan and M. Nizamuddin, “Gate-stack optimization of a vertically stacked nanosheet fet for digital/analog/RF applications,” Journal of Computational Electronics, SPRINGER, vol. 21, no. 3, pp. 608–617, 2022. <a href="https://doi.org/10.1007/s10825-022-01864-2">https://doi.org/10.1007/s10825-022-01864-2</a>
36.	Ms. Nisha Yadav and Dr. Sunil Jadav	Nisha Yadav, Sunil Jadav, Gaurav Saini, “Geometrical variability impact on the performance of sub - 3 NM gate-all-around stacked nanosheet fet,” Silicon, SPRINGER, 2022. <a href="https://doi.org/10.1007/s12633-022-01770-z">https://doi.org/10.1007/s12633-022-01770-z</a>
37.	Dr. Sheilza Jain	Sandeep Rangi, Sheilza Jain, and Yogendra Arya, “Utilization of energy storage devices with Optimal Controller for multi-area Hydro-hydro power system under Deregulated Environment,” Sustainable Energy Technologies and Assessments, vol. 52, p. 102191, 2022. <a href="https://doi.org/10.1016/j.seta.2022.102191">https://doi.org/10.1016/j.seta.2022.102191</a>



## 12. PAPER PUBLISHED IN INTERNATIONAL CONFERENCES

Sr. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1.	Dr. Sunil Jadav and Dr. Shailender Gupta	Anjali Malik, Sunil Jadav and Shailender Gupta, "A Multilevel Secured Mechanism for Data Communication", ICRDEEE 2022
2.	Dr. Sheilza Jain	Sandeep Rangi, Sheilza Jain and Yogendra Arya, "Optimal AGC of two area multi source power system incorporating with ES under deregulated environment", ICRDEEE 2022
3.	Dr. Sheilza Jain	Ritika Thusoo, Sheilza Jain and Sakshi Bangia, "Path Planning of Quadrotor using A* and LQR", ICRDEEE 2022
4.	Dr. Shailender Gupta	Reema Ganotra and Shailender Gupta, "Detection of Parkinson's Disease Using Support Vector Machine and Combination of Various Tissue Density Features", ICRDEE 2022
5.	Dr. Shailender Gupta	Reema Ganotra and Shailender Gupta, "Role of Neuroimaging in Diagnosis of Alzheimer's Disease", ICAECE 2022

## WORKSHOP/STC/INVITED TALKS/WEBINAR/OTHER ACTIVITIES CONDUCTED

Sr. No.	Name of Activity	Title	In collaboration with (if any)	Dates	Name of Coordinator
1.	Engineer's Day Celebration 2022	Engineer's Day Celebration 2022		15/09/2022	Dr. Pradeep Kumar and Dr. Rashmi Chawla
2.	Seminar	"Advance Concept in Digital Design"		09/09/2022	Dr. Nitin Sachdeva and Ms. Sangeeta Dhall
3.	Activity for school students	Electronic Prasar		1/8/2022	Dr. Rashmi Chawla
4.	Seminar	"Application of Mathematics in Data Communication Security"		20/07/2022	Dr. Nitin Sachdeva and Ms. Sangeeta Dhall
5.	Seminar	EMF Radiation Myths		27/05/2022	Dr. Sonam Khera, Ms. Neetu Gupta and Ms. Gunjan Sardana
6.	FDP	"WORK-LIFE BALANCE FOR TECHNOCRATS"		20/05/2022 to 24/05/ 2022	Dr. Dushyant Shukla, Dr. Anushree Chauhan, Dr. Sunil Jadav and Dr. Arti Gupta



7.	Seminar	"Trends in Microprocessor and Micro-controllers"		20/05/2022	Dr. Nitin Sachdeva and Ms. Sangeeta Dhall
8.	Seminar	"Evolution of Wireless Generations"		29/04/2022	Dr. Nitin Sachdeva and Ms. Sangeeta Dhall
9.	Seminar	"Interfacing of Microprocessors with Peripheral Devices"		8/04/2022	Dr. Nitin Sachdeva and Ms. Sangeeta Dhall
10.	Expert Lecture	Industry 4.0		6/4/2022	Dr. Rashmi Chawla
11.	STTP	AICTE Sponsored Online STTP on "Cloud Computing and Internet of Things" Feb 2022	AICTE Sponsored	07/02/2022 to 12/02/2022	Dr. Rashmi Chawla, Dr. Sheilza Jain and Ms. Sangeeta Dhall
12.	Webinar	Career option after B.Tech.		31/01/2022	Mr. Bharat Bhushan, Ms. Kalpna Shekand, Dr. Sunil Kumar and Dr. Sonam Khera
13.	STTP	"Recent Challenges and Development in Solar Energy Technologies and its Applications" Jan 2022	AICTE Sponsored	24/01/2022 to 29/01/2022	Dr. Rohit Tripathi, Dr. Sunil Jadav, Dr. Prashant Kumar and Mr. Lalit Rai

**13. STC/FDP/WORKSHOP/ SYMPOSIA/ WORKSHOP ATTENDED BY FACULTY MEMBERS**

Sr. No.	Name of Faculty	Name of STC/ FDP	Organized by	Date	
				From	To
1.	Bal Krishan	Exergy Analysis in Industrial Applications	Online	25-10-2021	29-10-2021
2.	Dr. Sheilza Jain	"Innovation in Technology Adoption and Development of High Precision Slipring: A Case Study"	online	18-07-2021	18-07-2021
3.	Dr. Sheilza Jain	Design and development of Electric vehicle using Ansys	online	26-11-2021	27-11-2021
4.	Dr. Sheilza Jain	"Research Writing and Professional Ethics"	Online	07-09-2021	13-07-2021
5.	Dr. Sheilza Jain	"Electric Vehicle Techniques with OPAL-RT Solutions"	Online	20-12-2021	25-12-2021





6.	Nitin Sachdeva	Trends & Issues IN VLSI and Communication Engineering	Online	25-10-2021	30-10-2021
7.	Nitin Sachdeva	5G Technology : Bridge to Future	Online	03-07-2021	03-07-2021
8.	Pradeep Dimri	Challenges of higher education in 21st century	Online	20-09-2021	25-09-2021
9.	Pradeep Dimri	Essentials of Yoga Tradition and Philosophy	Online	15-10-2020	25-02-2021
10.	Prashant Kumar	Research Writing and Professional Ethics	Online	07-09-2021	13-09-2021
11.	Rohit Tripathi	Reliability and security of VLSI circuits and systems for IoT	Online	02-08-2021	06-08-2021
12.	Rohit Tripathi	Recent Advances and Application of IoT in Renewable Energy Technologies	Online	23-08-2021	27-08-2021
13.	Archana Agarwal	Cloud Computing and Internet of Things	JCBUST, YMCA Faridabad	07-02-2022	12-02-2022
14.	Archana Aggarwal	Recent Challenges and Developments in Solar Energy Technologies and Its Applications	JCBUST, YMCA Faridabad	24-01-2022	29-01-2022
15.	Gunjan Sardana	cloud computing and internet of things	JCBUST, YMCA Faridabad	07-02-2022	12-02-2022
16.	Kalpana Sheokand	Cloud Computing and Internet of Things	JCBUST, YMCA Faridabad	07-02-2022	12-02-2022
17.	Manju Kumari	Cloud Computing and Internet of Things	JCBUST, YMCA Faridabad	07-02-2022	12-02-2022
18.	Neetu Gupta	Cloud Computing and Internet of Things	JCBUST, YMCA Faridabad	07-02-2022	12-02-2022
19.	Nisha Yadav	Cloud Computing and Internet of Things	JCBUST, YMCA Faridabad	07-02-2022	12-02-2022
20.	Nisha Yadav	Next Generation Materials and Devices	SR University, Hanumakonda	03-01-2022	07-01-2022
21.	Nitin Sachdeva	Recent Challenges and Developments in Solar Energy Technologies and Its Applications	JCBUST, YMCA Faridabad	24-01-2022	29-01-2022





22.	Priyanka Gandhi	Cloud Computing and Internet of Things	JCBUST, YMCA Faridabad	07-02-2022	12-02-2022
23.	Rashmi Chawla	Cloud Computing and Internet of Things	JCBUST, YMCA Faridabad	07-02-2022	12-02-2022
24.	Sangeeta Dhall	Cloud Computing and Internet of Things	JCBUST, YMCA Faridabad	07-02-2022	12-02-2022
25.	Sheilza Jain	Cloud Computing and Internet of Things	JCBUST, YMCA Faridabad	07-02-2022	12-02-2022
26.	Sheilza Jain	Converting Research to Patents	JCBUST, YMCA Faridabad	04-03-2022	04-03-2022
27.	Sonam Khera	Cloud Computing and Internet of Things	JCBUST, YMCA Faridabad	07-02-2022	12-02-2022
28.	Bal Krishan	Recent Challenges and Developments in Solar Energy Technologies and Its Applications	JCBUST, YMCA Faridabad	24-01-2022	29-01-2022
29.	Prashant Kumar	Recent Challenges and Developments in Solar Energy Technologies and Its Applications	JCBUST, YMCA Faridabad	24-01-2022	29-01-2022
30.	SANGEETA DHALL	Recent Challenges and Developments in Solar Energy Technologies and Its Applications	JCBUST, YMCA Faridabad	24-01-2022	29-01-2022
31.	Sheilza Jain	Recent Challenges and Developments in Solar Energy Technologies and Its Applications	JCBUST, YMCA Faridabad	24-01-2022	29-01-2022



#### 14. INVITED TALKS/LECTURES DELIVERED BY FACULTY MEMBERS

Sr. No.	Name of Faculty	Topic	Venue	Date
1.	Dr. Munish Vashishath	Trends in Microprocessor and Micro-controllers	JC Bose University of Science and Technology, YMCA, Faridabad	20/05/2022
2.	Dr. Neelam Turk	Evolution of Wireless Generations	JC Bose University of Science and Technology, YMCA, Faridabad	29/04/2022
3.	Dr. Pradeep Kumar	Interfacing of Microprocessors with. Peripheral Devices	JC Bose University of Science and Technology, YMCA, Faridabad	08/04/2022
4.	Dr. Pradeep Kumar	Indian Knowledge system: Language, art and Culture	JC Bose University of Science and Technology, YMCA, Faridabad	09/08/2021

#### 15. FACULTY SERVING IN STATE/NATIONAL/INTERNATIONAL COMMITTEES, EDITORIAL BOARDS ETC.

Sr. No.	Name of Faculty	Details
1.	Dr. Munish Vashishath	Data Auditor of TEQIP-II at i) DTU- DELHI,ii) MDU- ROHTAK,iii) DCRUST-MURTHAL iv) USIC KURUKSHETRA, Editor of International Journal of Science, Technology and Management, Reviewer of Journal of Circuits, Systems, and Computers, Journal of Nanoelectronics and Optoelectronics, Taylor's University Journal of Engineering Science & Technology, Journal of Circuits and Systems (CS), Journal of Signal and Information Processing(JSIP), YMCAUST International Journal of Research
2.	Dr. Pradeep Kumar	Data Auditor of TEQIP-II at NC College of Engg. Israna
3.	Dr. .Neelam Turk	Reviewer for Mechatronics (Elsevier), YMCAUST Journal, EPCS Journal (Taylor & Francis), IJEPS
4.	Ms.Archana Aggarwal	Reviewer for Journal of Renewable and sustainable energy reviews, Elsevier
5.	Dr. Sunil Jadav	Reviewer for ETRI Journal Korea
6.	Mr. Prashant Kumar	Sub Editor of YMCAUST Journal
7.	Dr. Shailender Gupta	Editor of IJCNIS(MECS), IJCNA(Everscience)IJETER(Everscience), Sub Editor (YMCAUST IJR Reviewer for IJFCM(Inderscience), Frontier of Computer Science(SPRINGER), Taylor and Francis



### 16. DETAILS OF STUDENTS QUALIFYING COMPETITIVE EXAMS (GATE/CAT/OTHER EXAM ETC.)

Sr. No.	Name of Exam	Name of Student	Exam Roll Number	Ranking/Score
1.	GATE	Kunal Bhatia	EC22S38026017	6951/25.67
2.	GATE	Divya	IN21S18034088	447/55.33
3.	GATE	Hemant Kumar		6951/25.67
4.	IELTS	Prateek Abhishek Chaubey	000693	7.5
5.	IELTS	Sakshi Raina	S0380023	8
6.	IELTS	Muskan Rana	V1080335	7

### 17. TRAINING PROGRAMMES HELD FOR STUDENTS DURING THE YEAR

Date	Name of Activity	Number of Participants
11/04/2022 to 04/05/2022	Value Added Course on “Pyhon Programming With hands on Training”	200
27/05/2022	EMF Radiation Myths	90
06/04/2022	Expert Lecture Industry 4.0	73
07/02/2022 to 12/02/2022	AICTE Sponsored Online STTP on "Cloud Computing and Internet of Things" Feb 2022	115
31/01/2022	Webinar on topic Career option after B.Tech.	189
24/01/2022 to 29/01/2022	AICTE Sponsored Online STTP on "Recent Challenges and Development in Solar Energy Technologies and its Applications" Jan 2022	77
20/09/2021 to 25/09/2021	CSR - Training on Introduction to Home Appliances Technology by GODREJ	132
9/8/2021	webinar on “Indian Knowledge system: Language, art and Culture”	100

### 18. DETAIL OF MOUs SIGNED DURING THE YEAR

Sr. No.	Title of MOU	Academic Partner/ Agency / Industry	Duration	Date of MOU
1.	To provide assistance in the area of teaching, research, exchange of Faculty and students, cultural exchange and staff development, as deemed beneficial by the two institutions.	Central Electronics Engineering Research Institute, Pilani	18.07.2019-17.07.2024	18.07.2019
2.	To exchange Staff and Students	Semi-Conductor Laboratory	22.05.2017-	22.05.2017



	(Faculty & Research Scholars; Under Graduate, Post graduate & Doctoral Students and Research Project Employees) regarding Academics and Research for the mutual benefit of both institutions.	Department of Space "Govt. of India"	21.05.2027	
3.	To impart industrial training to the engineering/Technology/management students etc.	Mahindra Telephonic	02.05.2017-01.05.2022	02.05.2017

**19. CONSULTANCY PROJECTS IN-HAND**

Sr. No.	Name of Principal Consultant	Name of the Project	Funding Agency	Duration	Year of Allotment	Amount (Rs.)
1.	Dr. Rashmi Chawla	Aakash Agri Products	Aakash Agro Farmers Producer Company Limited	Ongoing	Aug 2020	1 Lac paid so far

**20. INTERNAL REVENUE GENERATED**

Sr. No.	Name of Principal Consultant	Name of the Project	Funding Agency	Duration	Year of Allotment	Amount (Rs.)
	Dr. Rashmi Chawla	Aakash Agri Products	Aakash Agro Farmers Producer Company Limited	Ongoing	Aug 2020	1 Lac

**21. WHETHER MENTOR/MENTEE MEETING HELD REGULARLY: YES**

**22. AWARDS/PRIZES WON BY FACULTY DURING THE YEAR**

Sr. No.	Title of the Award	Name of the Awardee	Awarding Agency	State/National/International
1.	Appreciation Award for "Oxygen Refilling Management System"	Dr. Pradeep Kumar	District Administration Faridabad	State
2.	Appreciation Award for "Oxygen Refilling Management System"	Dr. Rashmi Chawla	District Administration Faridabad	State
3.	Appreciation Award for "Oxygen Refilling Management System"	Dr. Neelam Turk	District Administration Faridabad	State
4.	Appreciation Award for	Ms. Sangeeta Dhall	District Administration	State



	"Oxygen Refilling Management System"		Faridabad	
5.	Appreciation Award for "Oxygen Refilling Management System"	Ms. Manju Kumari	District Administration Faridabad	State

**23. AWARDS/PRIZES WON BY STUDENTS DURING THE YEAR**

<b>Sr. No.</b>	<b>Title of the Award</b>	<b>Name of the Awardee</b>	<b>Awarding Agency</b>	<b>State/National/International</b>
1.	Appreciation (Team Umeed)	Bobby	District Administration	State
2.	Appreciation (Team Umeed)	Ankit	District Administration	State
3.	Appreciation (Team Umeed)	Reema	District Administration	State
4.	Appreciation (Team Umeed)	Om Dev	District Administration	State
5.	Appreciation (Team Umeed)	Kiran	District Administration	State
6.	Appreciation (Team Umeed)	Preksha	District Administration	State
7.	Appreciation (Team Umeed)	Anjali	District Administration	State
8.	Appreciation (Team Umeed)	Surya	District Administration	State
9.	Appreciation (Team Umeed)	Ojasvi	District Administration	State
10.	Appreciation (Team Umeed)	Jasmeet	District Administration	State
11.	Appreciation (Team Umeed)	Divya	District Administration	State
12.	Appreciation (Team Umeed)	Kuldeep	District Administration	State
13.	Appreciation (Team Umeed)	Prince	District Administration	State
14.	Appreciation (Team Umeed)	Shweta	District Administration	State
15.	Appreciation (Team Umeed)	Ritik	District Administration	State



16.	Appreciation (Team Umeed)	Siddhant	District Administration	State
17.	Appreciation (Team Umeed)	Purshotam	District Administration	State
18.	Appreciation (Team Umeed)	Abhay Bhatia	District Administration	State
19.	Appreciation (Team Umeed)	Anurag Shahi	District Administration	State
20.	Appreciation (Team Umeed)	Hridyansh	District Administration	State
21.	Appreciation (Team Umeed)	Arun Kumar	District Administration	State
22.	Appreciation (Team Umeed)	Vansh	District Administration	State
23.	Appreciation (Team Umeed)	Ankit Nain	District Administration	State
24.	Appreciation (Team Umeed)	Vikas Verma	District Administration	State
25.	Appreciation (Team Umeed)	Manav	District Administration	State
26.	Appreciation (Team Umeed)	Devender	District Administration	State
27.	Appreciation (Team Umeed)	Pallavi	District Administration	State
28.	Appreciation (Team Umeed)	Pankaj	District Administration	State
29.	Appreciation (Team Umeed)	Manthan	District Administration	State
30.	Appreciation (Team Umeed)	Anand	District Administration	State
31.	Appreciation (Team Umeed)	Addhyan Garg	District Administration	State
32.	Appreciation (Team Umeed)	Akshay	District Administration	State
33.	Appreciation (Team Umeed)	Pratibha Rani	District Administration	State
34.	Appreciation (Team Umeed)	Sandeep	District Administration	State

**24. OUTSTANDING ACHIEVEMENTS 2021-2022**



Ten members student team "Fobotcs" of Eledronics Engineering department has secured 3 in 1 position and received scholarship prize of Rs.21000 from Chief Minster Sh.Manohar Lal in the project showcase competition in International Conference on "Environmental Challenges and Solution".



Apart from this the team also participated in Innovation Fair of Tech Week organized by “ST Microelectronics” and received a cash prize of Rs.50000 from the organizers.



## **25. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES**

The department is well equipped with the following facilities:

<b>Sr. No.</b>	<b>Facility</b>	<b>Existing</b>	<b>Added*</b>
1.	Labs	07	N/A
2.	Workshops	05	N/A
3.	Lecture Halls	07	N/A
4.	Smart Classroom	01	N/A
5.	Conference Room	01	N/A
6.	Seminar Halls/Projector Rooms/Research Lab	1/2/1	N/A
7.	Internet Connection	Yes	N/A
8.	LCD /LED	Yes	N/A
9.	ICT (Projector/OHP/Interactive Board)	Yes	N/A



## 26. MAJOR EQUIPMENT/SOFTWARE

Sr. No.	Name of Equipment / Software	Cost
10.	Matlab	4000000
11.	Labview software with kit	4000000
12.	Computer Systems 60 Nos	4000000
13.	Digital Storage Oscilloscope (60 Nos)	2500000
14.	NI Lab View Software license	2200000
15.	EM Wave Analyser	2200000
16.	Function Generator	2100000
17.	EMI -EMC trainer kit	2000000
18.	Computers	2000000
19.	Elvis II+	1600000
20.	IOT based industrial sorting machine	1600000
21.	Vector Network Analyser	1597575
22.	Visual TCAD	1200000
23.	Custom bundle: NI-my RIO Bundle	1100000



**35. DETAIL OF PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE DEPARTMENT:**

**EMF Radiation Myths**

**J. C. Bose University of Science & Technology, YMCA, Faridabad**  
 NAAC 'B' Grade accredited University  
 NH-2, Sector-6, Mathura Road, Faridabad – 121006, Haryana, India

**Department of Electronics Engineering**  
 is organizing an Expert Lecture on

**EMF Radiation Myths**  
 By  
**Sh. Amar Relan, IES**  
 Director, Department of Telecommunication,  
 Government of Haryana

**On 27<sup>th</sup> May 2022 at 11 AM (IST)**  
**Venue : Lecture Hall (S8)**

You can also join us on **Zoom Meeting:**  
**Meeting Id: 991 9985 9020**  
**Passcode: 12345678**

**Program Coordinators:** Ms. Neetu Gupta and Ms. Gunjan Sardana  
**Faculty members, research scholars and PG students of all the departments are cordially invited.**



**FDP on "WORK-LIFE BALANCE FOR TECHNOCRATS"**

**REGISTRATION FORM**  
 (Kindly copy the form as provided to be matched with the provided registration form)

- Name (Block Letters)
- Designation
- Department
- Organization
- Address for Communication
- Email (Mandatory)
- Mobile Number (Mandatory)
- Qualification
- Specialization
- Teaching Experience (Years)
- Research Experience (Years)
- Are you an organization participant?
- Do you require accommodation during the duration of FDP?

Please register me for the course of FDP on "Work-Life Balance for Technocrats" to be held at the academy campus from 20<sup>th</sup> May 2022 - 24<sup>th</sup> May 2022.

Date: \_\_\_\_\_  
 Place: \_\_\_\_\_  
 Signature of the Applicant \_\_\_\_\_  
 Authorized Signatory \_\_\_\_\_

**PATRON**  
 Prof. Nishid Kumar Tomar  
 Vice-Chancellor, J.C. Bose University of Science and Technology, YMCA, Faridabad/Haryana

**CO-PATRON**  
 Dr. Nishid Kumar Garg  
 Director, J.C. Bose University of Science and Technology, YMCA, Faridabad/Haryana

**PROGRAM CHAIR**  
 Prof. Pradeep Dixit  
 Chairman, Department of Electronics Engineering, J.C. Bose University of Science and Technology, YMCA, Faridabad/Haryana

**Dr. Richa Agrawal**  
 Chairperson, Department of Biological Studies, J.C. Bose University of Science and Technology, YMCA, Faridabad/Haryana

**ADVISORY COMMITTEE**  
 Prof. M.E. Agrawal Prof. Ashish Nigam  
 Prof. Manish Vashishth Dr. Manish Goel  
 Prof. Neelam Turk

**AICTE COORDINATOR**  
 Prof. C.K. Nagpal  
 Professor, Department of Computer Engineering, J.C. Bose University of Science and Technology, YMCA, Faridabad/Haryana

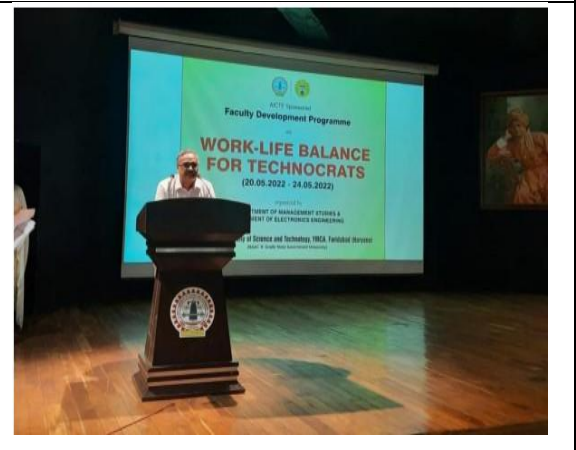
**COORDINATORS**  
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 Dr. Arvi Gupta  
 9912095118  
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**ORGANISING COMMITTEE**  
 Mr. Lalit Rai  
 Dr. Pradeep Kumar  
 Ms. Sangeeta Dhilli  
 Dr. Bal Kishan  
 Ms. Neeta Gupta  
 Dr. Rohit Tyagi  
 Dr. Shweta  
 Dr. Niku Goel  
 Dr. Jyotsna Chavla  
 Dr. Rajeev Siddhanti  
 Dr. Roma Agrawal  
 Dr. Supra Datta  
 Dr. Parveen Bhorat


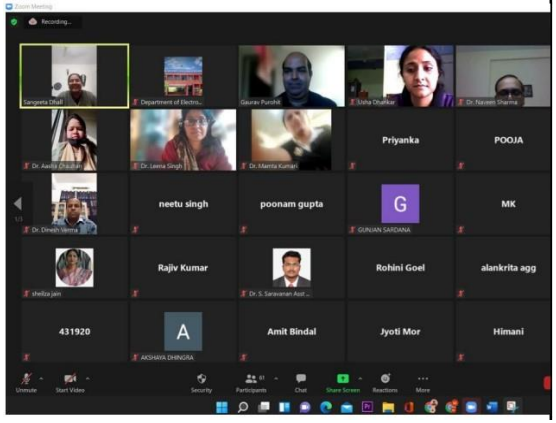
**AICTE Sponsored Short-Term Training Programme**  
**"WORK-LIFE BALANCE FOR TECHNOCRATS"**  
 (20.05.2022 - 24.05.2022)

**DEPARTMENT OF MANAGEMENT STUDIES & DEPARTMENT OF ELECTRONICS ENGINEERING**

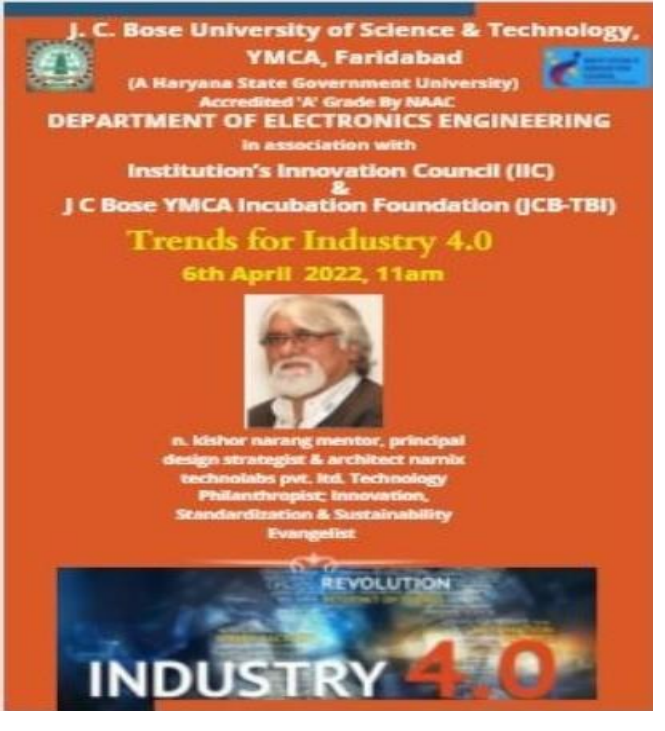

**J.C. BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, YMCA, FARIDABAD**  
 NAAC 'B' Grade accredited India level University  
 (Established by Haryana State Legislature in the year 1986, Recognized by UGC, AICTE, NBA, ISO 9001:2015)  
 NH - 2, SECTOR 6, MATHURA ROAD, FARIDABAD HARYANA 121006



**AICTE Sponsored Online STTP on "Cloud Computing and Internet of Things" Feb 2022**

<p><b>Address for Correspondence</b>                  Dr. Rashmi Chawla (9810368881)                  Department of Electronics Engineering                  J.C. Bose University of Science and Technology, YMCA, Faridabad                  Email id: rashmichawla@jcboseust.ac.in                  Office contact No: 0129-2310110                  Duration: 7th - 12th Feb 2022                  Last date for Registration: 4th Feb 2022  <b>Eligibility Criteria</b>                  Faculty Members and Research Scholars/PG Scholars from the AICTE/UGC or equivalent Universities/Organizations, Industry People.  <b>Venues</b>                  ZOOM Platform (Details will be shared. Participants are requested to install ZOOM platform or App)  <b>Course Fee:</b>                  No registration fee for participation. E-Certificates will be given to all the participants on successful completion of the course.  <b>Registration Form Link:</b>  <a href="https://forms.gle/mXrbyjVByPNk753c7">https://forms.gle/mXrbyjVByPNk753c7</a></p>	<p><b>PATRON</b>                  Shri Raj Nehru                  Vice Chancellor                  J.C. Bose University of Science and Technology, YMCA, Faridabad  <b>PROGRAMME CHAIR</b>                  Prof. Pradeep Kumar Dimri                  (Chairperson)                  Department of Electronics Engineering                  J.C. Bose University of Science and Technology YMCA, Faridabad.  <b>ADVISORY COMMITTEE</b>                  Prof. C.K. Nagpal, AICTE Coordinator                  Prof. Munish Vashishath                  Prof. Neelam Turk                  J.C. Bose UST, YMCA  <b>ORGANISING COMMITTEE</b>                  Dr. Shailender Gupta                  Ms. Archana Agarwal                  Ms. Archana Agarwal                  Ms. Neetu Gupta                  Dr. Nitin Sachdeva                  Dr. Priyanka Gandhi                  Dr. Sonam Khara                  Dr. Prashant                  Dr. Sunil Jadav                  Mr. Lalit Rai                  Ms. Gunjan Sardana                  Ms. Manju                  Ms. Nisha Yadav                  Dr. Kalpana  <b>PROGRAMME CO-ORDINATOR</b>                  Dr. Rashmi Chawla                  Dr. Sheelza Jain                  Ms. Sangeta Dhall                  Department of Electronics Engineering                  J. C. Bose UST, YMCA</p>	<p>J. C. Bose University of Science &amp; Technology                  YMCA, Faridabad                  (A Haryana State Government University)                  Accredited 'A' Grade By NAAC  <b>DEPARTMENT OF ELECTRONICS ENGINEERING</b>  <b>AICTE Sponsored Online STTP</b>  <b>Cloud Computing and Internet of Things</b>                  7th - 12th Feb. 2022</p> 	
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Industry 4.0

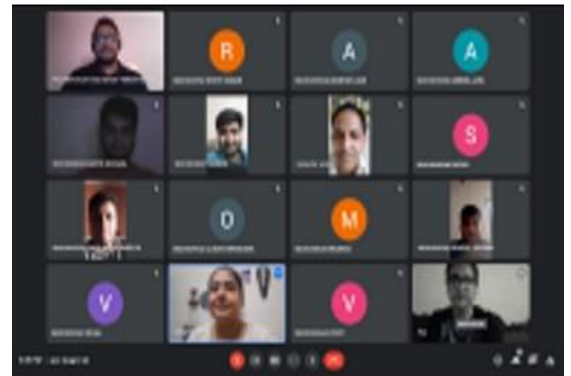
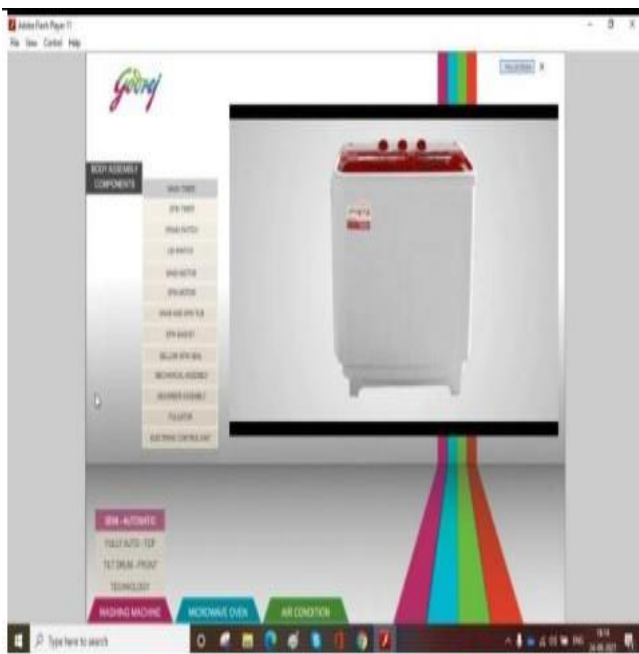
 <p><b>J. C. Bose University of Science &amp; Technology, YMCA, Faridabad</b>                  (A Haryana State Government University)                  Accredited 'A' Grade By NAAC  <b>DEPARTMENT OF ELECTRONICS ENGINEERING</b>                  In association with                  Institution's Innovation Council (IIC)                  &amp;                  J C Bose YMCA Incubation Foundation (JCB-TBI)  <b>Trends for Industry 4.0</b>                  6th April 2022, 11am</p> <p><b>Dr. N. Kishor Narang</b>                  mentor, principal design strategist &amp; architect namix technolabs pvt. ltd. Technology Philanthropist, Innovation, Standardization &amp; Sustainability Evangelist</p> <p><b>INDUSTRY 4.0</b></p>	
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CSR - Training on Introduction to Home Appliances Technology by GODREJ



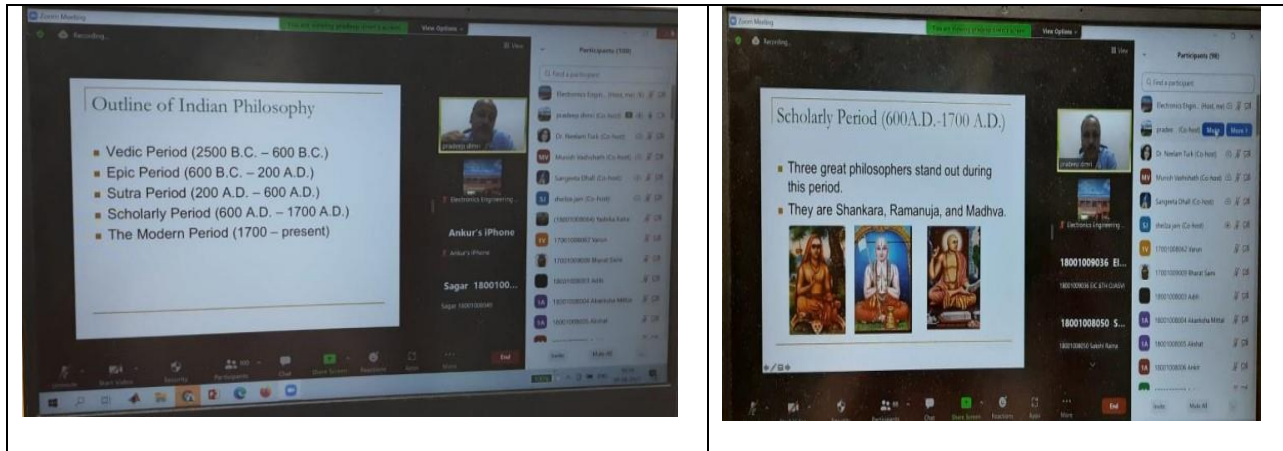
The details of day wise topic covered is shown below

Day 1	Topic covered
20 September 2021	Basics of Air conditioner
21 September 2021	Basics of Air conditioner
22 September 2021	Basic of Refrigerator
23 September 2021	Basic of Refrigerator
24 September 2021	Basic of Washing Machine
25 September 2021	Basic of Microwave Oven




Webinar on Indian Knowledge system: Language, art, and Culture





Seminar on "Interfacing of Microprocessors with Peripheral Devices"

 <p>Electronics Engineering Department - Seminar Series</p> <p><i>Seminar on</i>  <b>"Interfacing of Microprocessors with Peripheral Devices"</b></p> <p>Friday, 8<sup>th</sup> April 2022 (4:00-5:00 pm)</p> <p>Venue: Conference Hall, Electronics Engineering Department</p> <p>Faculty members, research scholars and PG students of all the departments are cordially invited</p> <p><b>Speaker</b>  <b>Prof. Pradeep Kumar Dimri</b>          (Chairperson, Electronics Engineering)          JCBUST, YMCA          Faridabad</p>	
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**BRIEF DETAILS ABOUT THE ACTIVITY**

An EMF Awareness workshop to remove myths about ill health effects of radiations from Mobile Towers was organized by Department of Electronics Engineering, J.C. Bose University of Science and Technology, YMCA, Faridabad in collaboration with the Department of Telecom, Haryana LSA. Sh. Amar Relan, Director, DoT gave a presentation on the topic & explained to the students that radiations from Mobile Towers are Non ionizing radiations & the emission levels are below the limits prescribed by DoT, Govt. of India. Further in India the prescribed emission limits are 1/10th of levels prescribed internationally by ICNIRP (International Commission on Non Ionizing radiation protection). In addition to the Self Certifications by the Telecom Service Providers, the radiation levels from the towers are randomly tested by DoT teams. He also gave a practical demo on how the radiation level is measured in field by DoT team.



To encourage the concept of work-life balance, J.C. Bose University of Science and Technology, YMCA, Faridabad has organised a five-day Faculty Development Program on "Work-Life Balance for Technocrats" from 20th May to 24th May 2022. The program was organized by the Department of Management Studies in collaboration with the Department of Electronic Engineering. This program was sponsored by AICTE.

There is an evident need of internet of things. IoT has practically taken many industries around the world including precision agriculture, healthcare, energy, transportation and building management. Cloud Computing and IoT are one of the most trending technologies in today's world. Although these are two different technologies, it is very interesting to learn about the interdependence of cloud computing and IoT. In this STTP, we will briefly explain the close relation between Cloud Computing and IoT, while covering diverse topics related to that.

The prime objective of the workshop was to make students aware of upcoming technologies in the industry. Mr. Kishore Narang's speech began with a discussion of the history of technology. The guest speaker enlightened the students with the eventual growth of technology in the industry. In the end, the speaker discussed various boons and banes of the technologies.

The Electronics Engineering department in coordination with GODREJ Inc. conducted training for workshop staff and students from 20th -25th September 2021.

Electronics Engg Deptt JCBUST YMCA Fbd organized a one-day webinar on the Indian Knowledge System: Language, art, and Culture. Prof. Pradeep Dimri, keynote speaker of the webinar discussed the relevance of traditional knowledge systems and ancient wisdom in contemporary times. He called for the conservation, promotion, and dissemination of the cultural wealth of the country as it is crucial to preserve the country's identity. Dr Dimri emphasized that science, culture, civilization, art, history, etc are an integral part of our glorious tradition and our young generation should be aware of and respect these traditions.

The first lecture was delivered by Dr. Pradeep Kumar Dimri on topic "Interfacing of Microprocessors with Peripheral Devices". He has delivered his talk successfully by exploring the interfacing of microprocessors with peripheral devices. Microprocessor based system design involves interfacing of the processor with one or more peripheral devices for the purpose of communication with various input and output devices connected to it. To communicate with the outside world microcomputers use peripherals (I/O devices). Commonly used peripherals are: A/D converter, D/A converter, CRT, printers, Hard disks, floppy disks, magnetic tapes etc. Peripherals are connected to the microcomputer through electronic circuits known as interfacing circuits. The faculty members, workshop staff, research scholars and PG students of the electronics department have attended this lecture.



**DEPARTMENT OF  
CIVIL ENGINEERING**

## 1. INTRODUCTION

The Department of Civil Engineering was established in 2018 with the aim of providing quality education and training to students in the field of Civil Engineering. The department offers a Bachelor of Technology (B.Tech.) program in Civil Engineering from 2018 and Environmental Engineering from 2021, which has been duly approved by the All-India Council for Technical Education (AICTE), ensuring that the program meets the highest standards of technical education in India. The curriculum of the program emphasizes practical-based teaching and research, tailored to the requirements of the Civil and Environmental industry. In line with this goal, the department has also launched a Ph.D. program in Civil Engineering in 2021, aimed at providing research-oriented education and advancing the field of Civil Engineering. With a focus on excellence in teaching, research, and innovation, the Department of Civil Engineering is committed to preparing the next generation of Civil Engineering professionals who will contribute to the development and growth of the country.

## 2. DEPARTMENT VISION

The vision of the Department of Civil Engineering is to be recognized as a center of excellence in education, research, and innovation in the field of Civil and Environmental Engineering. The department aims to prepare graduates who are well-equipped with technical knowledge and practical skills, and who are capable of addressing the complex challenges facing the industry and society.

## 3. DEPARTMENT MISSION

The mission of the Department of Civil Engineering To provide efficient engineers for global requirements by imparting quality education with an emphasis on practical skills and social relevance.

To explore, create and develop innovations in various aspects of engineering through industries and institutions.

Faculty And Department		
	Name	Tenure
Dean of Faculty:	Dr M.L Aggarwal	18.05.2020 to till now
Chairperson of the Department:	Dr M.L Aggarwal	16.05.2018 to 10.04.2022
Chairperson of the Department:	Dr Tilak Raj	11.04.2022 to till date

## 4. DEPARTMENT HIGHLIGHTS

Courses Offered	Existing	Newly Added
UG Course:	B.Tech	N/A
Doctorat Course	PhD	N/A

Sr. No.	Course Details	Intake
1.	B.Tech(Civil Engineering)	71 *Standard intake-60
2.	B.Tech( Environmental Engineering)	15 *Standard intake-30
3.	PhD	01

Student Enrollment		
	Male	Female
Total	70	17
UG Course (Civil Engineering)	57	14
UG Course (Environmental Engineering)	12	03
PhD	01	--

### 5. FACULTY DETAILS

	Professor	Associate Professor	Assistant Professor	Adjunct/Contractual/ Visiting Faculty	Total
Male	-	-	02	03 (Contractual)	05
Female	-	01	-	-	01
Total	-	01	02	03	06

### 6. FACULTY PROFILE

Sr. No.	Name & Designation	Qualification & Specialization	Total Experience	Publication			Book/Chapter
				SCI/SCIE	SCOPUS	UGC Approved Care/Referred	
1	Dr.Rajni Saggu Associate Professor	Ph.D Geotechnical Engineering	15	10	5		5
2	Mr. Yogesh Kumar Morya Assistant Professor	M.Tech Highway Safety and Engineering	3.5	-	-	3	-
3	Dr. Vishal Puri Assistant Professor	Ph.D Building Materials	5	3	1	-	5
4	Dr. Ashish Agarwal Assistant Professor	Ph.D Structural Engineering	3	3	3	2	-
5	Dr Sandeep Ravish Assistant Professor	Ph.D Hydraulics and Water Resources Engineering	1.5	4	2	-	3
6	Mr. Vivek Rawat Assistant Professor	M.Tech Environmental Engineering	2.8	-	-	-	-

### 7. NON-TEACHING STAFF

Sr. No.	Name and Designation	Qualification	Date of Joining
1	Mr. Rajdeep Assistant	MCA	01/08/2014



**8. DEPARTMENTAL PUBLICATIONS & FDP/STC/WORKSHOP (01/07/2021 - 30/06/2022)**

Sr. No.	Particular	Count
1	Publications in International Journals	6
2	Publications in National Journals	-
3	Publications in International Conferences	-
4	Publications in National conferences	-
5	Workshop	01
6	STC/FDP	Organized-03

**9. PAPER PUBLISHED IN INTERNATIONAL JOURNALS (01/07/2021 - 30/06/2022)**

Sr. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
1	Dr. Rajni Saggu	Saggu, R. (2021). Temperature Effects on Pile-Soil Interface Behaviour in case of Piles in Sand. Proceedings of the Institution of Civil Engineering-Geotechnical Engineering. (SCIE) <a href="https://doi.org/10.1680/jgeen.20.00197">https://doi.org/10.1680/jgeen.20.00197</a>
2	Dr. Rajni Saggu	Saggu, R. (2021). Cyclic Pile-Soil Interaction Effects on Load-Displacement Behavior of Thermal Pile Groups in Sand. Journal of Geotechnical and Geological Engineering, 40, 647-661. (ESCI) <a href="https://doi.org/10.1007/s10706-021-01912-x">https://doi.org/10.1007/s10706-021-01912-x</a>
3	Dr. Vishal Puri	Performance assessment of bamboo bond strength in cement-fly ash mortar, Proceedings of the Institution of Civil Engineers-Structures and Buildings,1-16
4	Dr. Vishal Puri	Development of Eco-Friendly Bricks for Sustainable Construction, Journal IOP Conference Series: Materials Science and Engineering,1248
5	Dr. Ashish Agarwal	Comprehensive Study of Mechanical Performance, June 2022, Materials 15(12):4350, DOI:10.3390/ma15124350
6	Dr. Sandeep Ravish	Classification of groundwater quality using multivariate statistical techniques:A case study from a part of Haryana, northwestern India, Environmental Geochemistry and Health, <a href="https://doi.org/10.1007/s10653-022-01288-8">https://doi.org/10.1007/s10653-022-01288-8</a> , 2022 (SCI)

**10. PAPER PUBLISHED IN NATIONAL CONFERENCES (01/07/2021- 30/06/2022)**

Sr. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1.	Dr. Sandeep Ravish	Reclamation of Wastewaters Using Microalgae and Microalgal Bioremediation Potential: A Review, HYDRO-2022, PEC, CHANDIGARH, 2022 (An International Renowned Conference Organised Under the aegis of IIT Bombay, Indian Society of Hydraulics)

**11. WORKSHOP/STC/INVITED TALKS/WEBINAR/OTHER ACTIVITIES CONDUCTED  
(01/07/2021 - 30/06/2022)**

Sr. No.	Name of Activity	Title	In collaboration with (if any)	Dates	Name of Coordinator
1	FDP	Research Writing and Professional Ethics	--	07-13 September 2021	Dr. Rajni Saggu Dr. Vishal Puri
2	FDP	Research and Innovations in Engineering	AICTE	07-12 Feb 2022	Dr. Rajni Saggu Dr. Vishal Puri
3	VAC	Value added Course on 'Recent Trends in Geotechnical and Hydraulic Engineering'	--	15.09.2021	Dr. Sandeep Ravish

**12. STC/FDP/WORKSHOP/ SYMPOSIA/ WORKSHOP ATTENDED BY FACULTY MEMBERS (01/07/2021 TO 30/06/2022)**

Sr.No.	Name of Faculty	Name of STC/ FDP	Organized by	DATE	
				FROM	TO
1	Dr. Rajni Saggu	FDP on Engineering Materials	Civil Engineering Dept., JCBUST	Jan 24, 2022	Jan 30, 2022
2	Dr. Rajni Saggu	FDP on Research and Invoations in Engineering	Civil Engineering Dept., JCBUST	Feb 7, 2022	Feb 12, 2022
3	Dr. Rajni Saggu	FDP on Research Writing and Professional Ethics	Civil Engineering Dept., JCBUST	SEPT 7, 2021	SEPT 13, 2021
4	Mr. Yogesh Kumar Morya	FDP on Engineering Materials	Civil Engineering Dept., JCBUST	Jan 24, 2022	Jan 30, 2022
5	Mr. Yogesh Kumar Morya	FDP on Research and Invoations in Engineering	Civil Engineering Dept., JCBUST	Feb 7, 2022	Feb 12, 2022
6	Mr. Yogesh Kumar Morya	FDP on Research Writing and Professional Ethics	Civil Engineering Dept., JCBUST	SEPT 7, 2021	SEPT 13, 2021
7	Dr. Sandeep Ravish	FDP on Engineering Materials	Civil Engineering Dept., JCBUST	Jan 24, 2022	Jan 30, 2022
8	Dr. Sandeep Ravish	FDP on Research and Invoations in Engineering	Civil Engineering Dept., JCBUST	Feb 7, 2022	Feb 12, 2022
9	Dr. Sandeep Ravish	FDP on Research Writing and Professional Ethics	Civil Engineering Dept., JCBUST	SEPT 7, 2021	SEPT 13, 2021
10	Dr. Vishal Puri	FDP on Engineering Materials	Civil Engineering Dept., JCBUST	Jan 24, 2022	Jan 30, 2022
11	Dr. Vishal Puri	FDP on Research and Invoations in Engineering	Civil Engineering Dept., JCBUST	Feb 7, 2022	Feb 12, 2022
12	Dr. Vishal Puri	FDP on Research Writing and Professional Ethics	Civil Engineering Dept., JCBUST	SEPT 7, 2021	SEPT 13, 2021

13	Mr. Vivek Rawat	FDP on Engineering Materials	Civil Engineering Dept., JCBUST	Jan 24, 2022	Jan 30, 2022
14	Mr. Vivek Rawat	FDP on Research and Invoations in Engineering	Civil Engineering Dept., JCBUST	Feb 7, 2022	Feb 12, 2022
15	Mr. Vivek Rawat	FDP on Research Writing and Professional Ethics	Civil Engineering Dept., JCBUST	SEPT 7, 2021	SEPT 13, 2021
16	Dr. Ashish Agarwal	FDP on Engineering Materials	Civil Engineering Dept., JCBUST	Jan 24, 2022	Jan 30, 2022
17	Dr. Ashish Agarwal	FDP on Research and Invoations in Engineering	Civil Engineering Dept., JCBUST	Feb 7, 2022	Feb 12, 2022
18	Dr. Ashish Agarwal	FDP on Research Writing and Professional Ethics	Civil Engineering Dept., JCBUST	SEPT 7, 2021	SEPT 13, 2021

**13. FACULTY SERVING IN STATE/NATIONAL/INTERNATIONAL COMMITTEES,  
EDITORIAL BOARDS ETC.(01/07/2021 - 30/06/2022)**

Sr. No.	Name of Faculty	Details
1.	Dr. Rajni Saggi	Reviewer of SCI International Journals: Computers and Geotechnics Canadian Geotechnical Journal Geotechnique Geotechnical and Geological Engineering Renewable Energy Energy Transportation Infrastructure Technology
2.	Dr. Sandeep Ravish	Editor in Edit Springs Co. (Boston, USA)
3.	Dr. Sandeep Ravish	Editor in International Journal of Bioculture; Applied Environmental Science; Public Health Risk Assessment; Toxicology, Environmental, and Occupational Health; Sustainability, Society, and Eco-Welfare; Agrosociology and Sustainableilty; Earth Kingdom; Natural Disaster Mitigation, and Education; Environmental and Materials (IASSSF, Indonesia)
4.	Dr. Sandeep Ravish	Reviewer of International Journal of Scientific Reports (Publisher Nature.com; UK, SCI), International Journal of Environmental Monitoring and Assessment (Publisher Springer, Netherlands, SCI), International Journal of Civil Engineering (Publisher Springer Nature, Switzerland, SCI), Arabian Journal of Geosciences (Publisher Springer Nature, Germany, SCI), Current World Environment (Publisher Springer Nature, Indi, SCI), International Journal of Applied Water Science (Publisher Springer Nature, Germany, SCI), Journal of Sn Applied Science (Publisher Springer Nature, India, ESCI)

**14. DETAILS OF STUDENTS QUALIFYING COMPETITIVE EXAMS (GATE/CAT/  
OTHER EXAM ETC.) (01/07/2021 TO 30/06/2022)**

Sr. No.	Name of Exam	Name of Student	Exam Roll Number	All India Rank	Score
1	GATE-2022	Isha	CE22S58021018	6455	40.64
2	GATE-2022	Sachin	CE22S53004341	5895	41.97
3	GATE-2022	Ravi Goyal	CE22S53004027	5455	43.3
4	GATE-2022	Ravi Goyal	ES22S33004068	870	27
5	GATE-2022	Ankit Kumar	CE22S64048329	12080	31.49
6	GATE-2022	Abhishek Jangra	CE22S58001007	4079	47.63
7	GATE-2022	Deepak	CE22S53009377	4777	45.3
8	GATE-2022	Sachin Yadav	CE22S53009009	4459	46.3
9	GATE-2022	Sahil	CE22S63007105	25998	21.39
10	GATE-2022	Mohsin Zaki	CE22S63036019	13363	30.1
11	GATE-2022	Sandeep kumar	CE22S63009045	10017	34.28

**15. SPONSORED R&D PROJECTS IN-HAND**

Sr.No.	Name of Principal Investigator	Title of Research Project	Funding Agency	Duration	Year of Allotment	Amount (Rs.)
1	Dr. Rajni Saggu	Energy Efficiency in Green Buildings using Geothermal Pile for Cooling	Department of Science and Technology (DST), Govt. of India	5 years	2015	26.3648 Lakh
2	Dr. Rajni Saggu	Investigation of Load Transfer Mechanism of Geothermal Energy Pile Groups in Sand	Council of Scientific and Industrial Research (CSIR-HRDG), Govt. of India	3 years	2019	19.32 Lakh
3	Dr. Vishal Puri	Numerical Analysis of Bamboo reinforced concrete prefabricated wall panels	JCBUST, Faridabad	2 years	2021	2 Lakh

**16. WHETHER MENTOR/MENTEE MEETING HELD REGULARLY:**

**YES**

### 17. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES

The department is well equipped with the following facilities:

Sr. No.	Facility	Existing	Added*
1	Labs	04	N/A
2	Workshops	N/A	N/A
3	Lecture Halls	03	N/A
4	Smart Classroom	02	N/A
5	Conference Room	N/A	N/A
6	Seminar Halls/Projector Rooms/Research Lab	N/A	N/A
7	Internet Connection	All Rooms/Labs etc	N/A
8	LCD /LED	01	N/A
9	ICT (Projector/OHP/Interactive Board)	Interactive board-02 Projector-01	N/A

### 18. EXPENDITURE INCURRED ON ACADEMIC SUPPORT FACILITIES DURING THE YEAR

Sr. No.	Name of Item Procured	Academic Utility	Cost
	Desktops (07 Nos)	For different labs of the department	4,20,000/- (approx.)

**DEPARTMENT OF  
ELECTRICAL ENGINEERING**





## 1. INTRODUCTION

The Department of Electrical Engineering is committed to impart technical education in the most efficient manner to its students. It was established in the year 2012 (earlier combined with Electronics Engineering Department and known as EEE Department running since the inception of YMCAIE). The department has equipped itself with workshops/labs and syllabus for achieving engineering education excellence, from the support of excellent faculty of the Department, YMCA UST has established itself as well-known entity in the field of Electrical education. The syllabus of the Department composed of the fundamental concepts blended with the ultra modern topic to impart quality technical education, the lab/workshops consists of the basic instrument to software/simulators for providing the student a feel for industrial work environment. Department of Electrical Engineering is running various UG, PG and Ph.D. programs.

## 2. DEPARTMENT VISION

Electrical Engineering Department congregates the challenges of new technological advancements to provide comprehensively trained, career focused, morally strong accomplished graduates, cutting edge researchers by experimental learning which contribute to ever changing global society and serve as competent engineers.

## 3. DEPARTMENT MISSION

To commit excellence in imparting knowledge through incubation and execution of high quality innovative educational programs. To develop the Research oriented culture to build national capabilities for excellent power management. To inculcate and harvest the moral values and ethical behavior in the students through exposure of self -discipline and personal integrity. To develop a Centre of Research and Education generating knowledge and technologies which lay ground work in shaping the future in the field of electrical engineering.

Faculty and Department		
	Name	Tenure
Dean of Faculty:	Dr M.L Aggarwal	18.05.2020 to till date
Chairperson of the Departments:	Dr. Poonam Singal	01.05.2019 to 30.04.2022
Chairperson of the Departments:	Dr P.R Sharma	24.02.2021 (Absence of Poonam Singal)
Chairperson of the Departments:	Prof. Anju Gupta	01.05.2022 to till date

## 4. DEPARTMENT HIGHLIGHTS

Courses Offered	Existing	Newly Added
UG Course:	B.Tech	N/A



PG Course:	M.Tech (Power Electronics and Drives)	N/A
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Sr. No.	Course Details	Intake
1	B.Tech(Electrical Engineering)	71 *Standard intake-60
2	M.Tech( Power Electronics and Drives)	04 *Standard intake-18

Student Enrollment		
	Male	Female
Total	57	19
UG Course	53	18
PG Course	04	-
PhD	-	01

### 5. FACULTY DETAILS

	Professor	Associate Professor	Assistant Professor	Adjunct/Contractual/ Visiting Faculty	Total
Male	02	01	03	00	06
Female	02	00	06	01 (Contract)	09
Total	04	01	09	01	15

### 6. FACULTY PROFILE

Sr. No.	Name & Designation	Qualification & Specialization	Total Experience	Publication			Book/Chapter
				SCI/SCIE	SCOPUS	UGC Approved Care/Referred	
1	Dr. P.R. Sharma Professor	Ph.D Power System	29	4	13	5	-





2	Dr. Rajesh Kr. Ahuja Professor	Ph.D Power Electronics and Drives	25	3	3	-	-
3	Dr. Poonam Singhal Professor	Ph.D Power System	37	1	8	2	-
4	Dr. Anju Gupta Professor	Ph.D Power System	23	3	4	3	
5	Dr Yogendra Arya Associate Professor	Ph.D Power System	13	43	6	1	2
6	Mr. Nitin Goel Assistant Professor	M.Tech Power System & Drives	15	-	-	2	2
7	Dr. Shakuntla Assistant Professor	Ph.D Power System	18.5	2	2	7	-
8	Dr. Sakshi Kalra Assistant Professor	Ph.D Power System	16	4	9	-	1
9	Dr. Rashmi Agarwal (Jain) Assistant Professor	Ph.D Power System & Drives	17	3	5	1	-
10	Dr. Anubha Gautam Assistant Professor	M.Tech Power Electronics and Drives	18	-	4	2	-
11	Ms. Shipra Aggarwal Assistant Professor	M.Tech Power System & Drives	19	-	1	3	-



12	Mr. Satvinder Singh Assistant Professor	M.Tech Power System & Drives	12	-	-	5	4
13	Mr. Atma Ram Assistant Professor	M.Tech Power System & Drives	10	-	1	5	2
14	Ms. Rachna Assistant Professor	M.Tech Power System	8.5	-	1	2	1
15	Ms. Bharti Thakur Assistant Professor	M.Tech Power System & Drives	8	-	2	3	-

#### 7. NON-TEACHING STAFF

Sr. No.	Name and Designation	Qualification	Date of Joining
1	Mr Satpal (HOS)	B.E(Electrical)	18.08.2006
2	Mr Pawan Kumar (Sr Instructor)	M.Tech (Electrical)	26.03.2012
3	Mr Puran Lal (Instructor)	M.Tech (Electrical)	08.07.2013
4	Mr Avnish Kr Gaur (Technician)	B.E(Electrical)	04/08/2014

#### 8. FACULTY MEMBER COMPLETED PHD DURING THE YEAR

Sr. No.	Faculty Name	Discipline	Topic	Awarding Year	Institution
	Dr Anubha Gautam	Electrical Engg.	Congestion Management in Deregulated Power System	2022	JCBose University of Science and Technology, YMCA Fbd



### 9. DEPARTMENTAL PUBLICATIONS & FDP/STC/WORKSHOP (01/07/2021 - 30/06/2022)

Sr. No.	Particular	Count
1	Publications in International Journals	22
2	Publications in National Journals	1
3	Publications in International Conferences	28
4	Publications in National conferences	-
5	Workshop	01
6	STC/FDP	Organized-02 Attended-50

### 10. PAPER PUBLISHED IN INTERNATIONAL JOURNALS (01/07/2021 - 30/06/2022)

Sr. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
1	Prof. P.R Sharma	Manisha Malik, PR Sharma, Optimal siting and sizing of hybrid PV and wind energy distribution network
2	Prof. Rajesh Ahuja	Yadav, Uma & Gupta, Anju & Ahuja, Rajesh. (2022). Experimental validation of novel PRESH controller for TPSPPS. Electrical Engineering. 10.1007/s00202-022-01551-2.
3	Prof. Rajesh Ahuja	Yadav, Uma & Gupta, Anju & Ahuja, Rajesh. (2021). Analysis of CPG control strategies using APC for single phase grid tied SPSS. Materials Today: Proceedings. 47. 10.1016/j.matpr.2021.05.195.
4	Prof. Rajesh Ahuja	Yadav, Uma & Gupta, Anju & Ahuja, Rajesh. (2022). Analysis of High-Performance Two-Stage CPG Interfaced with GTSPPS. Electrical Engineering. 1-15. 10.1007/s00202-022-01611-7.
5	Prof. Rajesh Ahuja	Yadav, Uma & Gupta, Anju & Ahuja, Rajesh. (2021). Harmonic Mitigation In Grid-Tied TPSPPS Via Novel PRESH Controller. International Journal of Mathematical Models and Methods in Applied Sciences. 15. 233-238. 10.46300/9101.2021.15.30.



6	Prof. Rajesh Ahuja	Ram, Atma, Sharma, Parsh & Ahuja, Rajesh. (2022). Performance evaluation of different configurations of system with DSTATCOM using proposed Icos $\phi$ technique. Indonesian Journal of Electrical Engineering and Computer Science. 25. 1. 10.11591/ijeecs.v25.i1.pp1-13.
7	Dr. Anju Gupta	Yadav, Uma & Gupta, Anju & Ahuja, Rajesh. (2022). Experimental validation of novel PRESH controller for TPSPSS. Electrical Engineering. 10.1007/s00202-022-01551-2.
8	Dr. Anju Gupta	Yadav, Uma & Gupta, Anju & Ahuja, Rajesh. (2021). Analysis of CPG control strategies using APC for single phase grid tied SPSS. Materials Today: Proceedings. 47. 10.1016/j.matpr.2021.05.195.
9	Dr. Anju Gupta	Yadav, Uma & Gupta, Anju & Ahuja, Rajesh. (2022). Analysis of High-Performance Two-Stage CPG Interfaced with GTSPSS. Electrical Engineering. 1-15. 10.1007/s00202-022-01611-7.
10	Dr. Anju Gupta	Yadav, Uma & Gupta, Anju & Ahuja, Rajesh. (2021). Harmonic Mitigation In Grid-Tied TPSPSS Via Novel PRESH Controller. International Journal of Mathematical Models and Methods in Applied Sciences. 15. 233-238. 10.46300/9101.2021.15.30.
11	Dr. Yogendra Arya	E. Çelik, N. Öztürk, Y. Arya, and C. Ocak, "(1+PD)-PID cascade controller design for performance betterment of load frequency control in diverse electric power systems," Neural Computing and Applications, vol. 33, no. 22, pp. 15433–15456, Nov. 2021. DOI: <a href="https://doi.org/10.1007/s00521-021-06168-3">https://doi.org/10.1007/s00521-021-06168-3</a> . IF = 5.102.
12	Dr. Yogendra Arya	E. Çelik, N. Öztürk, and Y. Arya, "Advancement of the search process of salp swarm algorithm for global optimization problems," Expert Systems with Applications, vol. 182, 115292, Nov. 2021. DOI: <a href="https://doi.org/10.1016/j.eswa.2021.115292">https://doi.org/10.1016/j.eswa.2021.115292</a> . IF = 8.665.
13	Dr. Yogendra Arya	Z. Y. Yılmaz, G. Bal, E. Çelik, N. Öztürk, U. Güvenç, and Y. Arya, "A new objective function design for optimization of secondary controllers in load frequency control," Journal of the Faculty of Engineering and Architecture of Gazi University, vol. 36, no. 4, pp. 2053–2067, Sept. 2021. DOI: <a href="https://doi.org/10.17341/gazimmfd.841751">https://doi.org/10.17341/gazimmfd.841751</a> . IF = 1.059.
14	Dr. Yogendra Arya	I. Eke, M. Saka, H. Gözde, Y. Arya, and M. C. Taplamacioglu, "Heuristic optimization based dynamic weighted state feedback approach for 2DOF PI-controller in automatic voltage regulator," Engineering Science and Technology, an International Journal, vol. 24, no. 4, pp. 899–910, Aug. 2021. DOI: <a href="https://doi.org/10.1016/j.jestch.2020.12.023">https://doi.org/10.1016/j.jestch.2020.12.023</a> . IF = 5.155.



15	Dr. Shakuntala	Shakuntla Boora, S.K Agarwal, K.S Sandhu, A Takagi-Sugeno (T-S)-Type FIS-Based Controller for an Autonomous Induction Generator (AIG) IETE Journal of Research 1-14 0377-2063
16	Dr. Shakuntala	Boora, S., Agarwal, S.K. & Sandhu, K.S, "Experimental and simulation testing of an EGLC controller for an IAG-EGLC system for electrifying off-grid rural sites," SN Appl. Sci. 3, 616, 2021, <a href="https://doi.org/10.1007/s42452-021-04599-0">https://doi.org/10.1007/s42452-021-04599-0</a> .
17	Dr Sakshi Kalra	Dr. Sheilza Jain, Ms Ritika Thusoo, "Control of nonlinear quadrotor using PID and Backstepping Techniques", International journal of engineering trends and technology vol 69, 167-173 2231-5381
18	Dr Rashmi Agarwal	Varun Agarwal, Vatsala Singh, Purna Gaur, Rashmi Agarwal "PV Output forecasting based on weather classification, SVM and ANN" Indian Journal of Engineering Materials Sciences vol 29, 211-217 2162-6359
19	Ms. Shipra Jain	Shipra Jain, Rajesh Kr. Ahuja, Anju Gupta "Experimental Validation of FPD Controller for controlling and stabilizing the bus voltage of PV DC Microgrid, International Journal of Mechanical Engineering vol 6, 3475-3479 0974-5823
20	Mr. Atma Ram	Ram, Atma, Sharma, Parsh & Ahuja, Rajesh. (2022). Performance evaluation of different configurations of system with DSTATCOM using proposed Icos technique. Indonesian Journal of Electrical Engineering and Computer Science. 25. 1. 10.11591/ijeecs.v25.i1.pp1-13.
21	Ms. Bharti Thakur	Bharti Thakur, Dr Archana Rani. "Comparative analysis of Pi, Fuzzy and Interval type 2 fuzzy based DVR for compensation of voltage sag and swell", Journal of university of Shanghai for science and technology, Vol 23, July 2021, 550-557
22	Ms. Bharti Thakur	Bharti Thakur, Dr Archana Rani, "Performance analysis of SRF based Pi controller on DVR for compensation of voltage sag and swell", IJERA, vol 11, pp17-24

### 11. PAPER PUBLISHED IN NATIONAL JOURNALS (01/07/2021– 30/06/2022)

Sr. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
1	Shipra Jain	Shipra Jain, Rajesh Kr. Ahuja, Anju Gupta "A review on Control hierarchy of DC



		Microgrid” Design Engineering vol 1, 1057-1064 0011-9342
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## 12. PAPER PUBLISHED IN INTERNATIONAL CONFERENCES (01/07/2021- 30/06/2022)

Sr. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1	Dr Anju Gupta	U. Yadav, A. Gupta and R. K. Ahuja, "Comparison Analysis of Conventional RCC and Novel PRESH Controller in Three Phase GTSPPS," 2021 3rd International Conference on Electrical, Control and Instrumentation Engineering (ICECIE), Kuala Lumpur, Malaysia, 2021, pp. 1-9, doi: 10.1109/ICECIE52348.2021.9664745.
2	Dr. Yogendra Arya	S. Rangi, S. Jain, and Y. Arya, "Optimal AGC of two-area multi-source power system incorporating ES under deregulated environment," International Conference on Recent Developments in Electrical and Electronics Engineering (ICRDEEE 2022), 15-16 April 2022, Faridabad, India.
3	Dr. Yogendra Arya	Y. Arya and K. Singh, "Optimal frequency control of Micro-grid system using IPD-(1+I) Controller," International Conference on Recent Developments in Electrical and Electronics Engineering (ICRDEEE 2022), 15-16 April 2022, Faridabad, India.
4	Dr Shakuntla	Sumit Kumar Yadav, Shakuntla Boora and Nitin Goel "A Hybrid approach to PMBLAC Machine for High-Speed mobility", International Conference on Recent Developments in Electrical and Electronics Engineering (ICRDEEE 2022), 15-16 April 2022, Faridabad, India.
5	Dr Shakuntla	Shiva Singh and Shakuntla Boora, "Arduino Based Battery Thermal Management for Electric Vehicle, IASTSF, 2022, Feb 28-March 01, 2022
6	Dr Shakuntla	Jalaj Tayagi, Poonam Singhal, Shakuntla Boora and Atma Ram, "Vehicle a Game Changer Technology in Automobile Sector-An Extensive Review," International Conference on Integrated Approaches in Science and Technology for Sustainable Future, IASTSF, 2022, Feb 28-March 01, 2022.
7	Dr Shakuntla	Robin Singh, Shakuntla Boora, "SPWM Operated Inverter", International Conference on Advances in Sustainable Energy, Environment and Engineering, ICASEE 2021, ISBN: 978-93-91681-04-3, April 16-17, 2021.
8	Dr Shakuntla	Sagar, Shakuntla Boora, " SVPWM Technique Operated Matrix Converter for the Speed Control Of the Induction machine", International Conference on Advances in Sustainable Energy, Environment and Engineering, ICASEE



		2021, ISBN: 978-93-91681-04-3, April 16-17, 2021.
9	Dr Shakuntla	Neha Jadoun, Shakuntla Boora, "A STATCOM based control Scheme for Grid Connected Wind Energy System for Power Quality Improvement", International Conference on Advances in Sustainable Energy, Environment and Engineering, ICASEE 2021, ISBN: 978-93-91681-04-3, April 16-17, 2021.
10	Dr Shakuntla	Navdeep Singh, Kunal Vashisht, Shakuntla Boora, Leena G, "Review of Different Methods of Speed Control of Brushless DC Motor", International Conference on Advances in Sustainable Energy, Environment and Engineering, ICASEE 2021, ISBN: 978-93-91681-04-3, April 16-17, 2021.
11	Dr Shakuntla	Jalaj Tayagi, Shakuntla Boora, "Review of Electric Motor towards the Advancement in Automobile Sector", International Conference on Advances in Sustainable Energy, Environment and Engineering, ICASEE 2021, ISBN: 978-93-91681-04-3, April 16-17, 2021.
12	Dr Shakuntla	Sujit Kumar, Shakuntla Boora, Poonam Singhal, P.R Sharma, "Comparative Study and Performance Analysis of Various Fibonacci Pattern of Solar Photovoltaic Tree- An Extensive Review, International Conference on Advances in Information Communication Technology, AICTC, 17-18 Dec 2022
13	Dr Shakuntla	Jalaj Tayagi, Sumit Kumar Yadav, Shakuntla Boora, Poonam Singhal, "Implementation of Battery and Ultra capacitors Based storage for Electric Vehicle System, 7-9 Oct 2022, IEEE, GCAT 2022.
14	Dr Sakshi Kalra	Sakshi Kalra, "Path planning of Quadrator using a and LQR" International Conference on Recent Developments in Electrical and Electronics engg. 2022
15	Dr Rashmi Agarwal	Abhishek, Bhim Singh, Rashmi Jain, "Grid Integration of 3P3W Singl Stage Solar PV System using modified Digital filter control' International conference on Recent Developments in Electrical and Electronics engg. 2022
16	Mr. Nitin Goel	Amit Sharma, Atma Ram & Nitin Goel, "IRPT Based Control Technique for DSTATCOM For Power Quality Enhancement", Proceeding of International Conference on Advances in Sustainable Energy, Environment and Engineering (ICASEE-2021), J C Bose University of Science and Technology, YMCA Faridabad, April 16-17, 2021 ISBN-978-93-91681-04-3 pp:1-7
17	Mr. Nitin Goel	Manish, Anju Gupta, Atma Ram & Nitin Goel, "Simulation of A Three Phase Inverter Using Closed Loop Voltage Control", International Conference on Advances in Sustainable Energy, Environment and Engineering (ICASEE-



		2021), J C Bose University of Science and Technology, YMCA Faridabad, April 16-17, 2021 ISBN: 978-93-91681-04-3
18	Mr. Nitin Goel	Nitin Goel, Atma Ram & Rajesh Saw "Performance Enhancement of MPPT Based Photovoltaic System Using Fuzzy Logic Controller", International Conference on Advances in Sustainable Energy, Environment and Engineering (ICASEE-2021), J C Bose University of Science and Technology, YMCA Faridabad, April 16-17, 2021, ISBN: 978-93-91681-04-3
19	Mr. Nitin Goel	Sumit Kumar Yadav, Shakuntla Boora and Nitin Goel "A Hybrid approach to PMBLAC Machine for High-Speed mobility", International Conference on Recent Developments in Electrical and Electronics Engineering (ICRDEEE 2022), 15-16 April 2022, Faridabad, India.
20	Dr. Anubha Gautam	Anubha Gautam, P.R.Sharma, Yogendra kumar "Application of novel method to reduce congestion in DPS applying TCSC" ICRDEEE 2022
21	Ms. Shipra Jain	Shipra Jain, " Power Management in DC Microgrid", International Conference on Integrated approaches in Science and Technology for Sustainable Future, IASTSF-2022 , 28thFeb -1st March 2022
22	Mr. Satvinder Singh	Satvinder Singh "Fault- Ride through capability enhancement in a grid connected PV Power plant via dc link braking chopper ICRDEEE 2022
23	Ms Rachna	Dhir, Rachna & Garg, Rachna & Mahajan, Priya. (2022). A Review of Microgrid Control Strategies. 1-5. 10.1109/DELCON54057.2022.9753044.
24	Ms Rachna	Priyanka, Sakshi Bangia, Rachna, "Speed Control Of SRM Motor Using Fuzzy Logic Controller" International Conference on Advances in Sustainable Energy, Environment, and Engineering (ICASEE-2021), April 21 (Presented only)
25	Mr. Atma Ram	Atmaram, "Vehicle a Game Changer Technology in Automobile Sector-An Extensive Review" international conference on integrated approaches in science and technology for sustainable future-2022
26	Mr. Atma Ram	Prabhat, Atma Ram & Rajesh Kr. Ahuja, "4.5 KW IGBT Based Natural Cooled Battery Charger with an Emergency Charging Unit" Proceeding of International Conference on Advances in Sustainable Energy, Environment and Engineering (ICASEE-2021), J C Bose University of Science and Technology, YMCA Faridabad, April 16-17, 2021, ISBN-978-93-91681-04-3 pp:37-42
27	Mr. Atma Ram	Amit Sharma, Atma Ram & Nitin Goel, "IRPT Based Control Technique for DSTATCOM For Power Quality Enhancement", Proceeding of International Conference on Advances in Sustainable Energy, Environment and Engineering (ICASEE-2021), J C Bose University of Science and Technology, YMCA





		Faridabad, April 16-17, 2021 ISBN-978-93-91681-04-3 pp:1-7
28	Mr. Atma Ram	Atma Ram, P.R. Sharma, Rajesh Kr. Ahuja, Harmonics Mitigation using PR controller based DSTATCOM in the distribution system .International conference on Recent Developments in Electrical and Electronics engg. 2022

### 13. WORKSHOP/STC/INVITED TALKS/WEBINAR/OTHER ACTIVITIES CONDUCTED (01/07/2021 - 30/06/2022)

Sr. No.	Name of Activity	Title	In collaboration with (if any)	Dates	Name of Coordinator
1	6 days online STP	Vehicle Techniques with OPAL-RT Solutions	AICTE	20.12.2021-25.12.2021	Dr. Shakuntala Mr. Nitin Goel
2	Two days online workshop	Design and development of electric vehicles using Ansys	NA	26.11.2021-27.11.2021	Dr. Shakuntala Mr. Nitin Goel
3	One-week STTP	AutoCAD for Engineers with PLC Basics	NA	25.06.2021-02.07.2021	Dr. Shakuntala Mr. Nitin Goel
4	Expert lecture	Career opportunities after B. tech	NA	18.05.2022	Dr. Sakshi Kalra
5	Expert lecture	Webinar on machines	NA	04.12.2021	Dr. Shakuntla
6	Expert lecture	Converting research to patents	NA	04.03.2022	Dr. Shakuntala Mr. Nitin Goel
7	Value added course	PLC Programming' in session.	NA	July-Dec 2021	Ms. Shipra Jain
8	Value added course	Message of Bhagwat Gita	NA	Jan-April 2022	Ms. Shipra Jain
9	Industrial Visit	Bhakranangal dam	NA	19.05.2022-21.05.2022	Dr. Poonam Singhal
10	Two Days International conference	ICRDEEE 2022	AICTE sponsored	28.01.2021	Dr. Poonam Singhal



**14. STC/FDP/WORKSHOP/ SYMPOSIA/ WORKSHOP ATTENDED BY FACULTY MEMBERS  
(01/07/2021 TO 30/06/2022)**

Sr. No.	Name of Faculty	Name of STC/ FDP	Organized by	DATE	
				FROM	TO
1.	Dr. Yogendra Arya	Patent Filing	National Institute of Technology, Srinagar	20.06.2022	24.06.2022
2.	Dr. Yogendra Arya	Advanced Control of Standalone Energy Systems	National Institute of Technology ,Srinagar	13.06.2022	17.06.2022
3.	Dr. Yogendra Arya	Smart Grids and Power System	National Institute of Technology Meghalaya, Shillong, India	21.03.2022	25.02.2022
4.	Dr. Yogendra Arya	Intelligent Control and Protection Techniques for Hybrid Morcogrid (ICPT-2022)	Motilal Nehru National Institute of Technology Allahabad, Prayagraj-211004, UP	05.03.2022	09.03.2022
5.	Dr. Yogendra Arya	Recent Challenges and Developments in Solar Energy Technologies and Its Applications	Department of Electronics Engineering, JC Bose University of Science and Technology, YMCA, Faridabad, Haryana	24.01.2022	29.01.2022
6.	Dr. Yogendra Arya	International Workshop on Solar Thermal Energy Storage	Indian Institute of Technology Roorkee, Roorkee, India	13.12.2021	14.12.2021
7.	Dr. Yogendra Arya	Twoday online workshop on Design and Development of Electric Vehicle using Ansys	J.C.BOSE UST, YMCA, Faridabad	26.11.2021	27.11.2021
8.	Dr. Yogendra Arya	Modeling and Simulation of Dynamical Systems (MSDS 2021)	Department of Electrical Engineering, Motilal Nehru National Institute of Technology, Allahabad, Prayagraj-211004, UP, India	27.09.2021	01.10.2021
9.	Dr. Yogendra Arya	Recent Advancements and Future Scope of Research in Electrical Electronics Engineering	Raj Kumar Goel Institute of Technology (RKGIT), Ghaziabad	06.09.2021	10.09.2021



10.	Dr. Yogendra Arya	Recent Advancement in Electrical and Allied Engineering (RAEAE-2021)	BIT Sindri	12.07.2021	16.07.2021
11.	Dr. Shakuntla	Converting Research to Patents	Department of Electrical Engg. J.C.BOSE UST, YMCA, Faridabad	04.03.2022	04.03.2022
12.	Dr. Shakuntla	Electric Vehicle Techniques with OPAL-RT Solutions	Department of Electrical Engg. J.C.BOSE UST, YMCA, Faridabad	20.12.2021	25.12.2021
13.	Dr. Shakuntla	Design and Development of Electric Vehicle using ANSYS	Department of Electrical Engg. J.C.BOSE UST, YMCA, Faridabad	26.11.2021	27.11.2021
14.	Dr. Shakuntla	4 Days Training Programme on laboratory Management Systems and Internal Audit as per IS/IEC/ISO17025/2017	Belz Training Institute	26.08.2021	29.08.2021
15.	Dr. Shakuntla	Process of Writing and Publishing Quality Research Papers in Indexed Journals	Department of Electrical Engg. J.C. BOSE UST, YMCA, Faridabad	07.07.2021	07.07.2021
16.	Dr. Sakshi Kalra	Converting Research to Patents(online)	J.C. BOSE UST, YMCA, Faridabad	04.03.2022	04.03.2022
17.	Dr. Sakshi Kalra	Cloud Computing and Internet of Things(online)	J.C. BOSE UST, YMCA, Faridabad	07.02.2022	12.02.2022
18.	Dr. Sakshi Kalra	AICTE Sponsored Online Short Term training Program on Electric Vehicle Techniques with OPAL-RT Solutions(online)	J.C.BOSE UST, YMCA, Faridabad	20.12.2021	25.12.2021
19.	Dr. Sakshi Kalra	AICTE Sponsored Online Short Term Training Program on Electric Vehicle Techniques with OPAL-RT Solutions(online)	J.C.BOSE UST, YMCA, Faridabad	20.12.2021	25.12.2021
20.	Dr. Sakshi Kalra	One day Seminar on Modern Trends in Quality Education	J.C. BOSE UST, YMCA, Faridabad	26.08.2021	26.08.2021
21.	Dr. Sakshi	Innovative Inventive Problem	J.C.BOSE UST, YMCA,	13.07.2021	18.07.2021



	Kalra	Solving(online)	Faridabad		
22.	Mr. Nitin Goel	Solar Energy A Pathway to Green Energy	Online, RBCET, Bareill	03.06.2022	04.06.2022
23.	Mr. Nitin Goel	Converting Research to Patents	J.C. BOSE UST, YMCA, Faridabad	04.03.2022	04.03.2022
24.	Mr. Nitin Goel	Electric Vehicle Techniques with OPAL-RT Solutions	J.C. BOSE UST, YMCA, Faridabad	20.12.2021	25.12.2021
25.	Mr. Nitin Goel	Design and Development of Electric Vehicle Using Ansys	J.C. BOSE UST, YMCA, Faridabad	26.11.2021	27.11.2021
26.	Mr. Nitin Goel	Process of Writing and Publishing Quality Research Papers in Indexed Journals	J.C. BOSE UST, YMCA, Faridabad	07.07.2021	07.07.2021
27.	Dr. Anubha Gautam	Issues and Challenges of Grid Connected Renewable Energy sources (ICGCRE-22)	Jamia Millia Islamia, New Delhi	21.02.2022	25.02.2022
28.	Dr. Anubha Gautam	Recent Challenges and Development in Solar Energy Technologies and its applications	J.C. BOSE UST, YMCA, Faridabad	24.01.2022	29.01.2022
29.	Dr. Anubha Gautam	Electric Vehicle techniques with OPAL-RT solutions	J.C. BOSE UST, YMCA, Faridabad	20.12.2021	25.12.2021
30.	Dr. Anubha Gautam	Intellectual Property Rights(online)	E and ICT Academy IIT Guwahati	23.08.2021	28.08.2021
31.	Dr. Anubha Gautam	Process of Writing and Publishing Quality Research Papers in Indexed Journals	J.C. BOSE UST, YMCA, Faridabad	07.07.2021	07.07.2021
32.	Ms. Shipra Jain	Issues and Challenges of Grid Connected Renewable Energy Sources(online)	J.C. BOSE UST, YMCA, Faridabad	21.02.2022	25.02.2022
33.	Ms. Shipra Jain	Recent Challenges and Developments in Solar Energy Technologies and its Applications(online)	J.C. BOSE UST, YMCA, Faridabad	24.01.2022	29.01.2022
34.	Ms. Shipra Jain	Electric Vehicle Techniques with OPAL-RT	J.C. BOSE UST, YMCA,	20.12.2021	25.12.2021



		Solutions(online)	Faridabad		
35.	Mr. Satvinder Singh	Smart Grids and Micro Grids in Indian Context	Mahatma Gandhi Institute of Technology	20.06.2022	24.06.2022
36.	Mr. Satvinder Singh	Basics Of Hardware in Loop Simulation	NITTTR, Chandigarh	02.05.2022	06.05.2022
37.	Mr. Satvinder Singh	Role of traceable PMU in smart grids	CSIR National Physical Laboratory	29.03.2022	29.03.2022
38.	Mr. Satvinder Singh	Recent Advances in Technologies for Environmental Sustainability	Deptt. of Environmental Science and engg. JCBOSE UST YMCA	17.03.2022	22.03.2022
39.	Mr. Satvinder Singh	Online one day Webinar on Sustainability and our role in achieving SDGs	J.C.BOSE UST, YMCA, Faridabad	28.02.2022	28.02.2022
40.	Mr. Satvinder Singh	Introduction of AMI and role of AMI in reducing at and losses	NPTI, faridabad	24.02.2022	25.2.2022
41.	Mr. Satvinder Singh	Recent Challenges And Developments In Solar Energy Technologies And Its Applications	Electronics Engineering Department , J.C.BOSE UST, YMCA, Faridabad	24.01.2022	29.01.2022
42.	Mr. Satvinder Singh	Renewable Energy : A future alternative	Government polytechnic thane	17.01.2022	21.01.2022
43.	Ms. Rachna.	Design and Development of Electric Vehicle using Ansys	J.C.BOSE UST, YMCA, Faridabad	26.11.2021	27.11.2021
44.	Ms. Rachna.	Recent Challenges and development in Solar Energy Technologies and its applications	J.C.BOSE UST, YMCA, Faridabad	24.01.2022	29.01.2022
45.	Ms. Rachna.	Electric Vehicle Techniques with OPAL-RT Solutions	J.C.BOSE UST, YMCA, Faridabad	20.12.2021	25.12.2021
46.	Mr. Atma Ram	Recent Challenges and Development in Solar Energy Technologies and its Applications	J.C. BOSE UST, YMCA, Faridabad	24.01.2022	29.01.2022



47.	Mr. Atma Ram	Electric Vehicle Techniques with OPAL-RT Solutions	J.C. BOSE UST, YMCA, Faridabad	20.12.2021	25.12.2021
48.	Mr. Atma Ram	Modeling and Simulation of Dynamical Systems	MNNIT, Allahabad, Prayagraj	27.09.2021	01.10.2021
49.	Mr. Atma Ram	Power Systems and Power Electronics for Green Energy	J.C. BOSE UST, YMCA, Faridabad	20.09.2021	25.09.2021
50	Mr. Atma Ram	Power Quality(online)	NPTEL	12.07.2021	16.10.2021
51	Ms. Bharti Thakur	Digital Circuit Implementation using ZYNQ FPGA IC	J.C. BOSE UST, YMCA, Faridabad (online)	16.09.2021	20.09.2021

Sr. No.	Name of Faculty	Details
1.	Dr. P.R Sharma	Member( BOS), Central University Mahendragarh, Member PG(BOS), DCRUST Murthal
2.	Dr. Poonam Singhal	Member District Advisory Committee ( PC&PNDDT), Member District Task Force ( Beti Bachao Beti Padhao )
3.	Dr. Yogendra Arya	Associate Editor- Journal of Electrical Engineering & Technology, International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, Electrica, Frontiers in Energy Research, Journal of Ambient Intelligence and Humanized Computing, Engineering Applications of Artificial Intelligence, Automatika, Electric Power Components and Systems  Academic Editor- Plos One, International Journal of Energy Research  Editorial Advisory Board Member of Energy Sources Part A: Recovery, Utilization, and Environmental Effects SCIE Journal
4.	Dr Rashmi Agarwal	EXECOM Committee member of IEEE Delhi section, Secretary (WIE Delhi Section), IEEE Women of Engineering AG Secretary

#### 15. INVITED TALKS/LECTURES DELIVERED BY FACULTY MEMBERS (01/07/2021 -30/06/2022)

Sr.No.	Name of Faculty	Topic	Venue	Date
1.	Dr. Rashmi Agarwal	Empower	NIT Delhi (virtual mode)	28.11.21



**16. FACULTY SERVING IN STATE/NATIONAL/INTERNATIONAL COMMITTEES, EDITORIAL BOARDS ETC. (01/07/2021 - 30/06/2022)**

**17. DETAILS OF STUDENTS QUALIFYING COMPETITIVE EXAMS (GATE/CAT/ OTHER EXAM ETC) (01/07/2021 TO 30/06/2022)**

Sr. No.	Name of Exam	Name of Student	Exam Roll Number	Ranking/Score
1	GATE-2022	Deepak Rathi	K159Z61	25

**18. TRAINING PROGRAMMES HELD FOR STUDENTS DURING THE YEAR**

Date	Name of Activity	Number of Participants
07.07.2021	National webinar on Process of Writing and Publishing Quality Research Papers in Indexed –Journals	50
July-Dec'2021	Value added course on 'PLC Programming'	17
Jan-April-2022	Value added course on ' Message of Bhagwat Gita'	58
11.06.2021	Session on 'Introduction to Database'	93
27.07.21-28.07.21	Workshop on 'Encoders & Motors'	78
31.10.21	Workshop on 'LED Matrix'	30
20.11.21-21.11.21	A two-days workshop on 'PCBify with Altium'	58
5.22.22-6.2.22 & 12.02.22-13.02.22	A 4-days workshop on 'Elements of Electronics & Electrical'	129
28.02.22	Workshop on 'SC Maglev'	134
12.03.22-13.03.22	A two days Workshop on 'Solar Power Generation & BMS Circuits'	127
17.04.22	Workshop on 'Arduino Bootcamp'	86
14.05.22	Workshop on 'Inquiring Interface'	86

**19. DETAIL OF MOUs SIGNED DURING THE YEAR**

Sr. No.	Title of MOU	Academic Partner/ Agency / Industry	Duration	Date of MOU
1	N/A	MOU with Bareja solar and Projects Pvt. Ltd.	3 years	02.09.2021
2	N/A	RVM CADSoft	3 years	20.08.2021

20. **WHETHER MENTOR/MENTEE MEETING HELD REGULARLY:** YES**21. PATENT PUBLISHED /AWARDED DURING THE YEAR**

Sr.No.	Name of faculty member	Title of Patent	Date of Award/ Publication
1	Dr. Rashmi Agarwal	Improved Hybrid Solar Collector	15/04/22

**22. AWARDS/PRIZES WON BY FACULTY DURING THE YEAR**

Sr. No.	Title of the Award	Name of the Awardee	Awarding Agency	State/National/ International
1	Excellent Reviewer Certificate	Yogendra Arya	Indian Journal of Science and Technology (Scopus Indexed)	National
2	Best Associate Editor Award	Yogendra Arya	Journal of Electrical Engineering & Technology (SCIE Journal published by Springer with Impact Factor of 1.528)	International
3	Top 2% of Researchers in the World	Yogendra Arya	Stanford University, USA	International





### 23. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES

The department is well equipped with the following facilities:

Sr. No.	Facility	Existing	Added*
1	Labs	10	02
2	Workshops	01	N/A
3	Lecture Halls	03	N/A
4	Smart Classroom	01	N/A
5	Conference Room	01	N/A
6	Seminar Halls/Projector Rooms/Research Lab	01	N/A
7	Internet Connection	All Rooms/Labs etc	N/A
8	LCD /LED	03	N/A
9	ICT (Projector/OHP/Interactive Board)	Interactive board-02 Projector-06	N/A
10	Any Other Facility	Motion Sensors	N/A

The Department of Electrical Engineering has developed a Control System Lab, detail of which is as follows:

#### Introduction of Lab

With the objective to connect theoretical material taught in lecture courses with the realities of physical hardware and to give students thorough understanding of basic concepts and phenomenon of control theory the Department of Electrical Engineering has setup a Control Systems Lab in Electrical Engineering Department.



2. Laboratory/Project Coordinator: Dr. Yogendra Arya
3. Total Cost of equipments: Rs. 1,36,589/-
4. Details of equipments: 1. PID controller



2. Linear System Simulator
3. Temperature Control System
4. DC Position Control System
5. Potentiometric Error Detector
6. Study of Synchro Devices

5. Benefit to students/researchers:

After the successful completion of the Lab course, the student will be able to get basic knowledge of control system specifically related to

1. Study the effect of P, PD, PI and PID controller on a closed loop system.
2. Execute the time response of a first/second order control system.
3. Control the position of D.C servo motor.
4. Study the relation between synchro transmitter and receiver outputs.
5. Study the performance of PID controller to control the temperature of an oven.
6. Study the potentiometric error detector

The Department of Electrical Engineering has developed a Microprocessor Lab, detail of which is as follows:

Introduction of Lab

This laboratory is used to provide intensive practical exposure to learn the assembly language programming systematically for the different issues of microprocessor and microcontroller. Students are extensively exposed with the interfacing of microprocessor and microcontrollers with other peripherals. The course will help to analyse, implement and understand the interfacing circuits for various applications of Microprocessor-based system.





2. Laboratory/Project Coordinator: Ms. Rachna
3. Total Cost of equipments: Rs. 1,49,506/-
4. Details of equipments:
  1. LED Array Module
  2. 8085 Microprocessor kit
  3. 8086 Microprocessor kit
  4. Motor Drive Module
  5. Stepper Motor Module
  6. 8051 Universal Developmental Platform
  7. Input Interface module
  8. ADC Module
  9. Computer Interface Module
  10. Seven segment module
  11. Display Module
5. Benefit to students/researchers: After the successful completion of the Lab course, the student will be able to get basic knowledge of microprocessors specifically related to architecture and assembly language programming of 8085 and 8086. They will be exposed to microprocessor interfacing applications too.

**24. EXPENDITURE INCURRED ON ACADEMIC SUPPORT FACILITIES DURING THE YEAR**

Sr. No.	Name of Item Procured	Academic Utility	Cost
1	Desktops ( 07 Nos)	For different labs of the department	4,20,000/-(approx.)

**25. DETAIL OF PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE DEPARTMENT  
(01/07/2021 TO 30/06/2022)**



Six days Online AICTE SPONSORED STP on “Vehicle Techniques with OPAL-RT Solutions (20-25December 2021)



Two days Online workshop on "Design and Development of Electric Vehicle using Ansys" (26-27 November 2021)



6 days Offline STTP on “AutoCAD for Engineers with PLC Basics” (25 June- 2 July 2021)



A seminar on "Career Opportunities after B.Tech" held on 18th May'2022

### BRIEF DETAILS ABOUT THE ACTIVITY

1. This STTP covers the entire spectrum of design, technology and analysis involved in the electric vehicle development cycle. It aims to deliver the right tools and skills for EV Systems Modelling and simulation that includes EV technology, operations, battery systems and functions, power train systems and components for better simulation and modelling using OPAL-RT hardware and simulator.
2. The objective of the Workshop was to get insight details of various aspects related with the basics of Electric Vehicles, its design and analysis using Ansys Software. To understand the four pillars which form the basis electrification of electric vehicle namely Battery, Traction Motor, Power Electronics and Systems Engineering and how ANSYS helps in different aspects like reducing battery cost and increasing life, meeting EMI– EMC regulations and developing fuel cells.
3. The training was a combination of technical seminars, presentations and practicals. The key concepts are delivered through practical experience under the guidance of industry-expert instructors.
4. Mr. Arjun Chhabra gave seminar on career opportunities after B.Tech. He discussed that pursuing higher studies is another most popular career option after engineering. After completing the B.Tech course the students can take admission to an M.Tech program. He informed that students can also appear for the GATE exam which will test comprehensive understanding of undergraduate engineering subjects and help them to enter IITs and NITs for M.Tech.



# **INFORMATICS & COMPUTING**



# DEPARTMENT OF COMPUTER ENGINEERING







## 1. INTRODUCTION

The Department of Computer Engineering aims to promote academic growth by offering high quality UG, PG and Doctoral programmes. Department aims to make a place at both National and International level by producing high quality ethically rich computer engineers and IT professionals conversant with the state-of-the-art technology with the ability to adapt the upcoming challenges in information technologies and their applications to cater to the ever changing industrial & societal needs. The hallmark of the department is a team of passionate academic staff with a wide range of research interests. The department was established in 1991, currently offers B.Tech courses in CE, CE with specialization in Data Science & IT; and master courses in CE and CSE. The doctoral programme was started in 2010. The department has modern and state of the art laboratories.

## 2. DEPARTMENT VISION

The department aims to make a place at both national and international level by producing high quality ethically rich computer engineers conversant with the state-of-the-art technology with the ability to adapt the upcoming technologies to cater to the everchanging industrial demands and societal needs. It endeavours to establish itself as a centre of excellence by contributing to research areas having IT impact on the people's life and nation's growth.

## 3. DEPARTMENT MISSION

To provide the future leaders in the area of computer engineering and information technology through the development of human intellectual potential to its fullest extent.

To enable the students to acquire globally competence through problem solving skills and exposure to latest developments in IT related technologies.

To educate the students about their professional and ethical responsibilities.

To ensure continuous interaction with the industry and academia through collaborative research projects.

Faculty and Department		
	Name	Tenure
Dean of Faculty:	Prof. Komal Kumar Bhatia	03.07.2019 to till now
Chairperson of the Department:	Prof. Atul Mishra	11.04.2022 to till now

## 4. DEPARTMENT HIGHLIGHTS

Courses Offered	Existing	Newly Added
UG Course	B.Tech (Computer Engineering) B.Tech (Information Technology) B.Tech (Computer Engineering with specialization in Data	B.Tech(Hindi)



	Science)	
PG Course	M.Tech (Computer Engineering) M.Tech (Computer Science and Engineering)	NIL
PhD	Computer Engineering	NIL
Others	NIL	NIL

Sr. No.	Course Details	Intake
1	B.Tech (Computer Engineering)	120
2	B.Tech (Information Technology)	60
3	B.Tech (Computer Engineering with specialization in Data Science)	60
4	B.Tech(Hindi)	30
5	M.Tech (Computer Engineering)	18
6	M.Tech (Computer Science and Engineering)	18

Student Enrollment		
	Male	Female
Total	3596	2251
UG Course	3039	1402
PG Course	553	843
PhD	4	6

## 5. FACULTY DETAILS

	Professor	Associate Professor	Assistant Professor	Adjunct/Contraual/ Visiting Faculty	Total
Male	5	1	4	0	10





Female	0	6	11	8	25
Total	5	7	15	8	35

## 6. FACULTY PROFILE

Sr. No.	Name & Designation	Qualification & Specialization	Total Experience	Publication			Book/Chapter
				SCI/SCIE	SCOPUS	UGC Approved Care/Referred	
1	Dr. Komal Kumar Bhatia	Ph.D.(2009)	22	5	45	55	10
2	Dr. Chander Kumar Nagpal	Ph.D. (2005)	34	6	16	20	2
3	Dr. Naresh Chauhan	Ph.D.(2008)	30	2	35	40	3
4	Dr. Atul Mishra	Ph.D.(2012)	30	0	6	10	0
5	Dr. Ashutosh Dixit	Ph.D (2011)	19	1	27	0	0
6	Dr. Jyoti	Ph.D (2012)	19	1	0	0	0
7	Dr. Harish Kumar	Ph.D. (2017)	17	1	3	0	0
8	Dr. Parul Tomar	Ph.D. (2012)	20	5	10	22	1
9	Dr. Neelam Duhan	Ph.D. (2011)	20	4	25	30	6
10	Dr. Sapna Gambhir	Ph.D. (2010)	20	4	30	0	0
11	Dr. Parul Gupta	Ph.D (2013)	19	1	7	13	1
12	Dr. Shruti Sharma	Ph.D (2022)	17	3	1	8	4
13	Dr. Anuradha	Ph.D. (2011)	19	0	1	0	1
14	Dr. Poonam	Ph.D (2019)	15	1	7	12	2
15	Dr. Deepika	Ph.D. (2017)	17	4	5	19	1



16	Dr. Payal Gulati	Ph.D. (2013)	15	2	5	14	3
17	Dr. Amita Arora	Ph.D.(2019)	14	0	2	8	1
18	Dr. Preeti Sethi	Ph.D. (2016)	20	1	3	0	0
19	Dr. Ashlesha Gupta	Ph.D. (2019)	17.5	1	2	0	0
20	Dr. Rashmi Popli	Ph.D. (2016)	17	0	1	0	0
21	Dr. Sonali Gupta	Ph.D. (2016)	19	0	10	0	0
22	Mr. Sushil Kumar	Ph.D.(2021)	19	0	1	3	0
23	Dr. Umesh Kumar	Ph.D. (2020)	12	1	0	0	0
24	Dr Lalit Goyal	Ph.D. (2016)	19	19	34	0	0
25	Dr Rewa Sharma	Ph.D. (2016)	12	2	3	1	3
26	Dr Shivi Garg	Ph.D. (2021)	9	3	2	2	1
27	Mr Piyush Gupta	M.Tech (2015)	7	0	1	5	1
28	Ms. Ayyu Gupta	M.Tech (2015)	6	0	0	0	0
29	Ms. Jyotsna Parmar	M.Tech (2016)	6.5	0	0	2	0
30	Ms. Alka Chaudhary	M.Tech (2006)	16	0	0	5	0
31	Ms. Shikha Gupta	M.Tech (2014)	8	0	0	0	0
32	Ms Monika Gupta	M.Tech (2017)	4	0	1	7	1
33	Ms Shilpi	M.Tech (2016)	5	0	0	0	0
34	Ms Aayushi	M.Tech (2017)	4	1	0	0	0
35	Ms Raveena	M.Tech (2017)	4	1	0	0	0

## 7. NON-TEACHING STAFF

Sr No.	Name	Qualification	Date of Joining
1	Mr. Mukesh Kumar Gupta	M.Tech.(Computer Engg.), AMIE (CE)	29-09-2006



	Head Of Section (CE)		
2	Mr. Jitender Taneja Head Of Section (IT)	MCA, Diploma(CE)	26-03-2012
3	Mr. Ankit Pannu System Analyst & Programmer	M.Tech(CE), MBA(IT), B.Tech(IT)	27-11-2018
4	Dr. Mukesh Kumar Garg Sr. Instructor (CE)	PhD. ,M.Tech(CE)	19-10-1993
5	Mr. Mohan Singh Sr.Instructor (IT)	AMIE, Diploma(CE)	26-03-2012
6	Mr. Sanjay Kumar Instructor (CE)	B.E.	23-01-2008
7	Mr. Krishan Bhardwaj Instructor (CE)	AMIE, Diploma(CE)	08-07-2013
8	Mr. Omdev Nagar Programmer	M.Tech(CN), B.Tech(CSE)	01-04-2019
9	Mr. Manmohan Dagar Technician	M.Tech(CN), B.Tech(CSE)	01-12-2020
10	Mr. Ratnakar Singh Technician	MSC(CSE), Diploma in Hardware & Networking	01-08-2019
11	Mr. Nakul Kumar Technician	MSC(CSE), Diploma in Hardware & Networking	01-08-2019
12	Mr. Himanshu Technician	BCA	16-10-2019
13	Sh. Bharat Technician	Diploma (Computer Networking)	16-02-2022

#### 8. FACULTY MEMBER COMPLETED PHD DURING THE YEAR



Sr. No.	Faculty Name	Discipline	Topic	Awarding Year	Institution
1.	Dr Sushil Kumar	Computer Engineering	Design of Novelty Detection Techniques for Optimized Search Engine Results	July 2021	J.C. Bose University of Science and Technology YMCA
2.	Dr. Shivi Garg	Computer Engineering	Design and Analysis of Mobile Application Vulnerabilities	Dec, 2021	Indira Gandhi Delhi Technology University for Women, Delhi
3.	Dr Shruti Mittal	Computer Engineering	Predictive modeling techniques using big data	March 2022	J.C. Bose University of Science and Technology YMCA

#### 9. FACULTY MEMBERS SPONSORED FOR STP/COURSES/WORKSHOPS OR CONFERENCES

Sr. No.	Facility Name	Course/Workshop/Conferences	Sponsored by	Date
1	Dr C.K.Nagpal	International Conference on Soft Computing and its Engineering Applications (icSoftComp2021)	JCBUST	10-11 December 2021
2	Dr. Shruti Mittal	International Conference on Advancement in Computation & Computer Technologies	JCBUST	30-31 October 2021

#### 10. DEPARTMENTAL PUBLICATIONS & FDP/STC/WORKSHOP (01/07/2021 - 30/06/2022)

Sr. No.	Particular	Count
1	Publications in International Journals	22
2	Publications in National Journals	0
3	Publications in International Conferences	4
4	Publications in National conferences	0
5	Workshop	1
6	STC/FDP/VAC	5



### 11. PAPER PUBLISHED IN INTERNATIONAL JOURNALS (01/07/2021 - 30/06/2022)

Sr. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
1	Shruti Mittal, C.K Nagpal	Shruti Mittal, C.K Nagpal, "A predictive analytics framework for opportunity sensing in stock market" , Kuwait Journal of Science, June 2022
2	Parul Gupta, Payal Gulati	Dimple Chehal, Parul Gupta, Payal Gulati , "Evaluating Annotated Dataset of Customer Reviews for Aspect Based Sentiment Analysis", Journal of Web Engineering, Vol 21, Issue 2
3	Naresh Chauhan, Rashmi Popli	Madan Singh, Naresh Chauhan, Rashmi Popli, "Task Allocation in Distributed Agile Software Development Environment Using Unsupervised learning", Journal of Engg. Research, ICMET Special Issue, April 2022
4	Ayushi Bansal, Rewa Sharma, Mamta Kathuria	Ayushi Bansal, Rewa Sharma, Mamta Kathuria, "A Systematic Review on Data Scarcity Problem in Deep Learning: Solution and Applications", ACM Computing Surveys, Volume 54, Issue 10s, January 2022
5	Rewa Sharma	Rajesh Kumar, Rewa Sharma, "Leveraging Block-chain for ensuring Trust in IoT: A Survey", Journal of King Saud University- Computer and Information Sciences, Volume 34, Issue 10, Part A, November 2022, Pages 8599-8622
6	Amita Arora, Ashlesha Gupta, Manvi Siwach	Amita Arora, Ashlesha Gupta, Manvi Siwach, "Web-Based News Straining and Summarization Using Machine Learning Enabled Communication Techniques for Large-Scale 5G Networks", Hindawi Wireless Communications and Mobile Computing Volume 2022
7	Raveena, Jyoti Verma, Manvi Siwach	Raveena, Jyoti Verma, Manvi Siwach, "Small files' problem in Hadoop: A systematic literature review", Volume 34, Issue 10, Part A, November 2022, Pages 8658-8674
8	Shruti Mittal, C.K Nagpal	Shruti Mittal, C.K Nagpal, "Predicting a reliable stock for mid and long term investment", Journal of King Saud University- Computer and Information Sciences, Volume 34, Issue 10, Part A, November 2022, Pages 8440-8448
9	Sonali Gupta, Komal Kumar Bhatia	Disha Garg, Dr. Komal Kumar Bhatia, Sonali Gupta, "A Research Perspective on Security in Fog Computing through Blockchain Technology", Communications in Computer and Information Science, 1865-0929, pages 91-104, July 2021



10	Parul Tomar, Sapna Gambhir	Simmi Chawla, Parul Tomar, Sapna Gambhir, " Design and implementation of IoT based Low cost, effective learning mechanism for empowering STEM education in India", Turkish Journal of Computer and Mathematics Education, 1309-4653, pages 125-133
11	Parul Tomar	Parul Tomar, Gyanendra Kumar, "SENSEnue Its IoT platform and Bayes decision theorem based mine control system", Mathematics in Engineering, Science and Aerospace (MESA), Vol 12, No 4 .2041-3165, pages 901-914 (Nov 2021)
12	Vedpal, Naresh Chauhan	Vedpal, Naresh Chauhan, "A STRUCTURAL ANALYSIS BASED TEST CASE PRIORITIZATION TECHNIQUE FOR OBJECT ORIENTED", ICIC Express letters part B Applications, 2185-2766, pages 81-88, January 2022
13	Shruti Mittal, Chander Nagpal	Chander Nagpal, "Reinforcement learning based predictive analytics framework for survival in stock market", Int. J. Intelligent Engineering Informatics, Vol 9, 1758-8715, October 2021
14	Parul Tomar	Parul Tomar, Gyanendra Kumar, " A Stateless Spatial IPv6 Address Configuration Scheme for Internet of Things", IETE Journal of Research, 0974-780X, October 2021
15	Ashlesha Gupta, Ashutosh Dixit	Ashlesha Gupta, Ashutosh Dixit, "A novel user trend-based priority assigner and URL scheduler for dynamic incremental crawling", Concurrency and Computation Practice and Experience, 1532-0634, Vol 32, August 2021
16	Sonali Gupta, Komal Kumar Bhatia	Sonali Gupta, Komal Kumar Bhatia, "Design of a Parallel and Scalable Crawler for the Hidden Web", International Journal of Information Retrieval Research (IJIRR), 2155-6377, Vol12, January 2022
17	Parul Tomar	Parul Tomar, Ranjita Joon, "Energy Aware Q-learning AODV (EAQ-AODV) routing for cognitive radio sensor networks", Journal of King Saud University - Computer and Information Sciences", 1319-1578, April 2022
18	Shivi Garg	Shivi Garg, Niyati Baliyan, "M2VMapper Malware-to-Vulnerability mapping for Android using text processing", Expert Systems with Applications, 0957-4174, April 2022
19	Sapna Gambhir	Ketna Khanna, Sapna Gambhir, Mohit Gambhir, "A novel technique for image classification using short-time Fourier transform and local binary pattern", Multimedia Tools and Applications, 1573-7721, March 2022
20	Parul Tomar	Gyanendra Kumar, Parul Tomar, Lal Pratap Verma, "Path-Rank-Based Data Chunk Scheduling for Concurrent Multipath Transmission", Computer and Communications Networks and Systems The Computer Journal, June 2022



21	Poonam Mittal	Mittal, Poonam, et al. "Fuzzy Modelling of Clinical and Epidemiological Factors for COVID-19." International Journal of System Dynamics Applications (IJSDA) 11.1 (2022): 1-16.
22	Anuradha Pillai, Deepika Punj	Mamta Mahiya, Anuradha Pillai, Deepika Punj, "A Novel Approach to Detect Copy Move Forgery using Deep Learning". Journal of Scientific & Industrial Research 81.09 (2022): 963-971.

## 12. PAPER PUBLISHED IN INTERNATIONAL CONFERENCES (01/07/2021- 30/06/2022)

Sr. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1	Piyush Gupta	Suraj Tiwari and Piyush Gupta. "Handwritten Multi-digit Recognition Using Convolutional Neural Networks with Par-Mod." In Emergent Converging Technologies and Biomedical Systems: Select Proceedings of ETBS 2021, pp. 381-394. Singapore: Springer Singapore, March 2022.
2	Parul Tomar	Bhawna Wadhwa, Parul Tomar "Security and Privacy challenges in Big Data", 3rd Doctoral Symposium on Computational Intelligence, An International Conference (DoSCI 2022), 5th March 2022.
3	Parul Tomar	Pushpa, Parul Tomar "Binary and Multi-class Classification for Intrusion Detection systems", IEEE conference on Machine Learning, Big Data, Cloud and Parallel Computing: Trends, Perspective and Prospects (COM-IT-CON 2022), 26th-27th May 2022
4	Parul Gupta, Payal Gulati	Dimple Chehal, Parul Gupta, Payal Gulati "An Approach to Utilize E-Commerce Product Reviews to Remove Irrelevant Recommendations", IEEE Delhi Section International Conference on Electrical, Electronics and Computer Engineering (DELCON-2022) Feb 22

## 13. WORKSHOP/STC/INVITED TALKS/WEBINAR/OTHER ACTIVITIES CONDUCTED (01/07/2021 - 30/06/2022)

Sr. No.	Name of Activity	Title	In collaboration with (if any)	Dates	Name of Coordinator
1	Expert Lecture	Expert Lecture on "Project Flow Design"	Department of Computer Applications	07-07-2021	Dr Preeti Sethi
2	Webinar	Webinar on "DBMS for GATE	ACE Engineering Education India Pvt Ltd	22-11-2021	Dr Preeti Sethi



		Preparation”(179)			
3	Lecture Series	Lecture Series 1.2 on Data Science Evolution by Prof C.K.Nagpal	Department of Computer Applications	01-04-2022	Dr Poonam
5	Lecture Series	Lecture Series 1.1 on Data Science Evolution by Prof C.K.Nagpal	Department of Computer Applications	26-03-2022	Dr Poonam
6	Lecture Series	Lecture Series 1.4 on Data Science Evolution by Prof C.K.Nagpal	Department of Computer Applications	20-04-2022	Dr Poonam
7	Lecture Series	Lecture Series 2.1 on Nature of Language, Mind and Consciousness - I by Prof Manjeet Singh Tomar	Department of Computer Applications	27-04-2022	Dr Poonam
8	Lecture Series	Lecture Series 2.3 on Nature of Language, Mind and Consciousness - III by Prof Manjeet Singh Tomar	Department of Computer Applications	25-05-2022	Dr Poonam
9	Lecture Series	Lecture Series 2.2 on Nature of Language, Mind and Consciousness - II by Prof Manjeet Singh Tomar	Department of Computer Applications	06-05-2022	Dr Poonam
12	Lecture Series	Lecture Series 1.3 on Data Science Evolution by Prof C.K.Nagpal	Department of Computer Applications	08-04-2022	Dr Poonam
13	Webinar	Webinar on “5G Technology: Bridge to Future”	National Telecommunications Institute for Policy Research, Innovation	03-07-2021	Dr Parul Tomar





			and Training		
14	STTP	AICTE sponsored online STTP on “Block Chain Technology and Networks”	AICTE	07-03-2022 to 12-03-2022	Dr Preeti Sethi
15	Expert Lecture	Expert Lecture on Project Flow Design		07-07-2021	Dr Preeti Sethi
16	STTP	AICTE approved Short Term Training Programme on ‘Emerging Research Areas in Big Data Computing’	AICTE	11-10-2021 to 16-10-2021	Prof Atul Mishra
17	Workshop	Three-day hands- on workshop on Microsoft Office for Girl Students of Computer Centre		11-10-21 to 13-10-2021	Dr Shruti
18	FDP	One Week Online Faculty Development Programme on “Internet of Things”	AICTE	13-09-2021 to 17-09-2021	Dr Parul Tomar
19	VAC	Value Added Course on CODING FOR BEGINNERS USING PYTHON		18-09-2021 to 01-10-2021	Dr Poonam
20	STTP	AICTE Sponsored One-Week Online STTP on “EMERGING RESEARCH AREAS IN BIG DATA COMPUTING”	AICTE	26-07-2021 to 31-07-2021	Prof Atul Mishra
21	Webinar	VIRTUAL SESSION ON ‘CYBER CRIMES AND		27-07-2021	Dr Rashmi Popli



		LAWS'			
22	FDP	FDP on Computer Vision and Image Processing	AICTE	30-5-2022 to 03-06-2022	Dr Parul Tomar

**14. STC/FDP/WORKSHOP/ SYMPOSIA/ WORKSHOP ATTENDED BY FACULTY MEMBERS  
(01/07/2021 TO 30/06/2022)**

Sr.No.	Name of Faculty	Name of STC/ FDP	Organized by	From	To
1	Monika Gupta	5G Technology Bridge to future	J C Bose University of Science and Technology in collaboration with National Telecommunications Institute for Policy Research, Innovation and Training	03-07-2021	03-07-2021
2	Aayushi Bansal	5G Technology Bridge to Future	J C Bose University of Science and Technology in collaboration with National Telecommunications Institute for Policy Research, Innovation and Training	03-07-2021	03-07-2021
3	Parul Tomar	5G Technology Bridge to Future	J C Bose University of Science and Technology in collaboration with National Telecommunications Institute for Policy Research, Innovation and Training	03-07-2021	03-07-2021
4	Shivi Garg	5G Technology Bridge to Future	J C Bose University of Science and Technology in collaboration with National Telecommunications Institute for Policy Research, Innovation and Training	03-07-2021	03-07-2021
5	Rewa Sharma	5G Technology-Bridge to future	J C Bose University of Science and Technology in collaboration with National	03-07-2021	03-07-2021



			Telecommunications Institute for Policy Research, Innovation and Training		
6	Payal Gulati	5G Technology-Bridge to future	J C Bose University of Science and Technology in collaboration with National Telecommunications Institute for Policy Research, Innovation and Training	03-07-2021	03-07-2021
7	Ashlesha Gupta	5G Technology Bridge to Future	J C Bose University of Science and Technology in collaboration with National Telecommunications Institute for Policy Research, Innovation and Training	03-07-2021	03-07-2021
8	Poonam	5G Technology Bridge to future	J C Bose University of Science and Technology in collaboration with National Telecommunications Institute for Policy Research, Innovation and Training	03-07-2021	03-07-2021
9	Piyush Gupta	Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College Ballabgarh	07-07-2021	14-07-2021
10	Monika Gupta	Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College Ballabgarh	07-07-2021	14-07-2021
11	Jyotsna Parmar	Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College Ballabgarh	07-07-2021	14-07-2021
12	Aayushi Bansal	Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College Ballabgarh	07-07-2021	14-07-2021
13	Parul Tomar	Cardinal Role of Quality Education in Developing	Aggarwal College Ballabgarh	07-07-2021	14-07-2021



		Self-Reliant India			
14	Anuradha Pillai	Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College Ballabgarh	07-07-2021	14-07-2021
15	Shivi Garg	Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College Ballabgarh	07-07-2021	14-07-2021
16	Rewa Sharma	Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College Ballabgarh	07-07-2021	14-07-2021
17	Ashlesha Gupta	Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College Ballabgarh	07-07-2021	14-07-2021
18	Harish Kumar	Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College Ballabgarh	07-07-2021	14-07-2021
19	Deepika Punj	Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College Ballabgarh	07-07-2021	14-07-2021
20	Preeti Sethi	Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College Ballabgarh	07-07-2021	14-07-2021
21	Poonam	Cardinal role of Quality education in Developing Self-Reliant India	Aggarwal College Ballabgarh	07-07-2021	14-07-2021
22	Shivi Garg	Webinar certification series on Journal Citation Reports	Clarivate Analytics	08-07-2021	08-07-2021
23	Parul Gupta	Data Analytics using R	J C Bose University of Science and Technology, YMCA	11-07-2021	15-07-2021
24	Parul Gupta	Data Analytics using R	J C Bose University of Science and Technology, YMCA	11-07-2021	15-07-2021



25	Payal Gulati	Entrepreneurship and Challenges 2021	J C Bose University of Science and Technology, YMCA	12-07-2021	16-07-2021
26	Monika Gupta	Emerging Research areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	26-07-2021	31-07-2021
27	Aayushi Bansal	Emerging Research Areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	26-07-2021	31-07-2021
28	Chander Nagpal	Emerging Research Areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	26-07-2021	31-07-2021
29	Chander Nagpal	Emerging Research Areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	26-07-2021	31-07-2021
30	Chander Nagpal	Emerging Research Areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	26-07-2021	31-07-2021
31	Chander Nagpal	Emerging Research Areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	26-07-2021	31-07-2021
32	Sushil Panwar	Emerging Research Areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	26-07-2021	31-07-2021
33	Shivi Garg	Emerging Research Areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	26-07-2021	31-07-2021
34	Shruti Sharma	Emerging Research Areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	26-07-2021	31-07-2021
35	Parul Gupta	Emerging Research Areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	26-07-2021	31-07-2021
36	Parul Gupta	Emerging Research Areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	26-07-2021	31-07-2021
37	Parul Gupta	Emerging Research Areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	26-07-2021	31-07-2021
38	Parul Gupta	Emerging Research Areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	26-07-2021	31-07-2021



39	Ashlesha Gupta	Emerging Research Areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	26-07-2021	31-07-2021
40	Payal Gulati	Web Development AICTE LITE	AICTE	23-08-2021	30-11-2021
41	Preeti Sethi	Modern Trends in Quality Education	J C Bose University of Science and Technology, YMCA	26-08-2021	26-08-2021
42	Piyush Gupta	Internet of Things	J C Bose University of Science and Technology, YMCA	13-09-2021	17-09-2021
43	Aayushi Bansal	Internet of Things	J C Bose University of Science and Technology, YMCA	13-09-2021	17-09-2021
44	Parul Tomar	Internet of Things (IoT)	J C Bose University of Science and Technology, YMCA	13-09-2021	17-09-2021
45	Umesh Kumar	Internet of Things	J C Bose University of Science and Technology, YMCA	13-09-2021	17-09-2021
46	Rewa Sharma	Internet of Things	J C Bose University of Science and Technology, YMCA	13-09-2021	17-09-2021
47	Preeti Sethi	FDP on Internet of Things	J C Bose University of Science and Technology, YMCA	13-09-2021	17-09-2021
48	Piyush Gupta	Coding for Beginners using Python	J C Bose University of Science and Technology, YMCA	18-09-2021	01-10-2021
49	Monika Gupta	Coding for beginners using Python	J C Bose University of Science and Technology, YMCA	18-09-2021	01-10-2021
50	Poonam	Coding for Beginners using Python	J C Bose University of Science and Technology, YMCA	18-09-2021	01-10-2021
51	Monika Gupta	Emerging Research areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	11-10-2021	16-10-2021
52	Parul Gupta	Emerging Research areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	11-10-2021	16-10-2021
53	Parul Gupta	Emerging Research areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	11-10-2021	16-10-2021



54	Payal Gulati	Emerging Research areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	11-10-2021	16-10-2021
56	Deepika Punj	Emerging Research Areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	11-10-2021	16-10-2021
57	Poonam	Emerging Research Areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	11-10-2021	16-10-2021
58	Lalit Mohan Goyal	Refresher Course in Computational and Mathematical Sciences	UGC-Human Resource Development Centre, Jamia Millia Islamia, New Delhi	22-10-2021	05-11-2021
59	Sapna Gambhir	Cyber Security Awareness	J C Bose University of Science and Technology, YMCA	26-10-2021	26-10-2021
60	Lalit Mohan Goyal	Parallel Algorithms for Computational Biology	MANIT, Bhopal	06-12-2021	10-12-2021
61	Piyush Gupta	Data Science	J C Bose University of Science and Technology, YMCA	21-02-2022	25-02-2022
62	Poonam	Blockchain Technology, Cryptocurrencies and Smart Contract	NIT Jalandhar	01-02-2022	15-02-2022
63	Parul Tomar	Cloud computing and Internet of Things	J C Bose University of Science and Technology, YMCA	07-02-2022	12-02-2022
64	Payal Gulati	Cloud Computing and Internet of Things	J C Bose University of Science and Technology, YMCA	07-02-2022	12-02-2022
65	Deepika Punj	Research Innovations in Engineering	J C Bose University of Science and Technology, YMCA	07-02-2022	12-02-2022
66	Sapna Gambhir	Cloud Computing and Internet of things	J C Bose University of Science and Technology, YMCA	07-02-2022	12-02-2022
67	Monika Gupta	Data Science	J C Bose University of Science and Technology, YMCA	21-02-2022	25-02-2022
68	Aayushi	Data Science	J C Bose University of Science	21-02-2022	25-02-



	Bansal		and Technology, YMCA		2022
69	Sushil Panwar	Faculty Development Program on Data Science	J C Bose University of Science and Technology, YMCA	21-02-2022	25-02-2022
70	Shivi Garg	Faculty Development Program on Data Science	J C Bose University of Science and Technology, YMCA	21-02-2022	25-02-2022
71	Alka Chaudhary	Faculty Development Program on Data Science	J C Bose University of Science and Technology, YMCA	21-02-2022	25-02-2022
72	Parul Gupta	Data Science	J C Bose University of Science and Technology, YMCA	21-02-2022	25-02-2022
73	Rewa Sharma	Data Science	J C Bose University of Science and Technology, YMCA	21-02-2022	25-02-2022
74	Payal Gulati	ATAL FDP on Data Science	J C Bose University of Science and Technology, YMCA	21-02-2022	25-02-2022
75	Deepika Punj	Data Science	J C Bose University of Science and Technology, YMCA	21-02-2022	25-02-2022
76	Poonam	Data Science	J C Bose University of Science and Technology, YMCA	21-02-2022	25-02-2022
77	Ashlesha Gupta	Blockchain Technology and Networks	J C Bose University of Science and Technology, YMCA	07-03-2022	12-03-2022
78	Payal Gulati	Computer Vision and Image Processing	J C Bose University of Science and Technology, YMCA	31-05-2022	03-06-2022
79	Sonali Gupta	Computer Vision and Image Processing	J C Bose University of Science and Technology, YMCA	31-05-2022	03-06-2022
80	Parul Tomar	Computer Vision and Image Processing	J C Bose University of Science and Technology, YMCA	31-05-2022	03-06-2022
81	Lalit Mohan Goyal	Computer Vision and Image Processing	J C Bose University of Science and Technology, YMCA	31-05-2022	03-06-2022





82	Monika Gupta	Computer Vision and Image Processing	J C Bose University of Science and Technology, YMCA	31-05-2022	03-06-2022
83	Raveena	Computer Vision and Image Processing	J C Bose University of Science and Technology, YMCA	31-05-2022	03-06-2022
84	Aayushi Bansal	Computer Vision and Image Processing	J C Bose University of Science and Technology, YMCA	31-05-2022	03-06-2022
85	Alka Chaudhary	Computer Vision and Image Processing	J C Bose University of Science and Technology, YMCA	31-05-2022	03-06-2022
86	Sushil Panwar	Computer Vision and Image Processing	J C Bose University of Science and Technology, YMCA	31-05-2022	03-06-2022
87	Neelam Duhan	Computer Vision and Image Processing	J C Bose University of Science and Technology, YMCA	31-05-2022	03-06-2022
88	Sapna Gambhir	Computer Vision and Image Processing	J C Bose University of Science and Technology, YMCA	31-05-2022	03-06-2022
89	Harish Kumar	Computer Vision and Image Processing	J C Bose University of Science and Technology, YMCA	31-05-2022	03-06-2022
90	Umesh Kumar	Computer Vision and Image Processing	J C Bose University of Science and Technology, YMCA	31-05-2022	03-06-2022
91	Lalit Mohan Goyal	Effective Teaching of Machine Learning	IIT, Delhi	1-1- 2022	5-1- 2022

INVITED TALKS/LECTURES DELIVERED BY FACULTY MEMBERS (01/07/2021 -30/06/2022)

Sr.No.	Name of Faculty	Topic	Venue	Date
1	Mr. Piyush Gupta	Academic Motivation: Strategies to enhance students success	Government college, Mohna, Haryana	17-03-2022
2	Dr Lalit Mohan Goyal	AI in Smart Cities	Echelon Institute of Technology, Faridabad	26-03- 2022



3	Dr Lalit Mohan Goyal	Machine Learning and Metrics for Data Analysis	DTU East Delhi Campus	20-05-2022
4	Dr Lalit Mohan Goyal	Adoption of IKS in Computer Science Books: Challenges and Importance	NIT, Kurukshetra	25th May 2022
5	Prof C.K.Nagpal	Lecture Series 1.1 on Data Science Evolution	J.C. Bose University of Science and Technology, YMCA, Faridabad	26-03-2022
6	Prof C.K.Nagpal	Lecture Series 1.2 on Data Science Evolution	J.C. Bose University of Science and Technology, YMCA, Faridabad	01-04-2022
7	Prof C.K.Nagpal	Lecture Series 1.3 on Data Science Evolution	J.C. Bose University of Science and Technology, YMCA, Faridabad	08-04-2022
8	Prof C.K.Nagpal	Lecture Series 1.4 on Data Science Evolution	J.C. Bose University of Science and Technology, YMCA, Faridabad	20-04-2022
9	Prof Manjeet Singh Tomar	Lecture Series 2.1 on Nature of Language, Mind and Consciousness -I	J.C. Bose University of Science and Technology, YMCA, Faridabad	27-04-2022
10	Prof Manjeet Singh Tomar	Lecture Series 2.2 on Nature of Language, Mind and Consciousness -II	J.C. Bose University of Science and Technology, YMCA, Faridabad	06-05-2022
11	Prof Manjeet Singh Tomar	Lecture Series 2.3 on Nature of Language, Mind and Consciousness -III	J.C. Bose University of Science and Technology, YMCA, Faridabad	25/05/2022



### 15. FACULTY SERVING IN STATE/NATIONAL/INTERNATIONAL COMMITTEES, EDITORIAL BOARDS ETC. (01/07/2021 - 30/06/2022)

Sr. No.	Name of Faculty	Details
1	Dr. Neelam Duhan	Member, ISTE
2		Editorial Board, International Journal of Distributed and Cloud Computing, Publishing India
3	Dr. Parul Tomar	Member, ISTE, IEI and IET
4	Dr. Sapna Gambhir	Member, ISTE, CSI, IEEE, IAENG, IACSIT, ACM
5	Prof Naresh Chauhan	Member ISTE, CSI, IEEE
6	Dr Ashlesha Gupta	CSI

### 16. TRAINING PROGRAMMES HELD FOR STUDENTS DURING THE YEAR

Date	Name of Activity	Number of Participants
26-06-2022	Interview Preparation For Placements	200
18-09-2021	Codefury 5.0	200
24-01-2022 to 14-2-2022	Geeky Mondays 2.0	500
3-07-2021	Lecture Series 1.1 on Data Science Evolution by Prof C.K.Nagpal	36
7-07-2021	Lecture Series 1.2 on Data Science Evolution by Prof C.K.Nagpal	26
26-07-2021 to 31-07-2021	Lecture Series 1.3 on Data Science Evolution by Prof C.K.Nagpal	26
27-07-2021	Lecture Series 1.4 on Data Science Evolution by Prof C.K.Nagpal	21
18-09-2021 to 01-10-2021	Lecture Series 2.1 on Nature of Language, Mind and Consciousness -I by Prof Manjeet Singh Tomar	22



26-03-2022	Lecture Series 2.2 on Nature of Language, Mind and Consciousness -II by Prof Manjeet Singh Tomar	28
01-04-2022	Lecture Series 2.3 on Nature of Language, Mind and Consciousness -III by Prof Manjeet Singh Tomar	29
08-04-2022	Lecture Series 2.4 on Nature of Language, Mind and Consciousness -IV by Prof Manjeet Singh Tomar	50
20-04-2022	Seminar on Importance of Innovation Culture in India for Overall Growth & Development of Nation	214
27-04-2022	Seminar on Optimality of Binary Search Trees	25
06-05-2022	Expert Lecture on “Project Flow Design”	200
25-05-2022	One Day Seminar on 5G Technology: Bridge to Future	250
15-07-2022	Three-day hands-on workshop on Microsoft Office for Girl Students of Computer Centre	16
22-07-2022	VIRTUAL SESSION ON CYBER CRIMES AND LAWS	250

#### 17. ANY OTHER TRAINING PROGRAMMES HELD FOR FACULTY AND STAFF(FOR CAPACITY BUILDING)

Date	Name of Activity	No of Participants
26/07/2021 to 31/07/2021	Emerging Research Areas in Big Data Computing	103
13/09/2021 to 17/09/2021	Faculty Development Programme on “Internet of Things”	170
11/10/2021 to 16/10/2021	Short Term Training Program (STTP) on ‘Emerging Research Areas in Big Data Computing’	80
30/05/2022 to 03/06/2022	FDP on Computer Vision and Image Processing	45

**18. DETAIL OF MOUs SIGNED DURING THE YEAR**

Sr. No.	Title of MOU	Academic Partner/ Agency / Industry	Duration	Date of MOU
1	Pupilfirst Pvt Ltd, Unit 3, Ground Floor, Vaishnavi Badri, No 48, 5th Main Rd, Jayamahal Extension, Bengaluru, 560046	NIL	2 years	13.08.2021

**19. SPONSORED R&D PROJECTS IN-HAND**

Sr.No.	Name of Principal Investigator	Title of Research Project	Funding Agency	Duration	Year of Allotment	Amount (Rs.)
1.	Dr. Ashutosh Dixit, Dr. Preeti Sethi, Mr. Punnet Garg	Child Identification Software for Recognising Missing Children using Machine Learning based  Speech Clarification Technique	AICTE	3 Years	Nov 2020	655,686
	Prof. Komal Kumar Bhatia, Dr Neelam Duhan	AICTE Research and Innovation Scheme	AICTE	3 Years	Jan 2022	Granted 448333/- Received 392291/-

20. WHETHER MENTOR/MENTEE MEETING HELD REGULARLY: YES

**21. PATENT PUBLISHED /AWARDED DURING THE YEAR**

Sr.No.	Name of faculty member	Title of Patent	Date of Award/ Publication	Status
1	Dr.Harish, Mr. Piyush Gupta	System for Crop Health Assessment and Monitoring with Incorporating Weather and Forecasting Data Using Artificial Intelligence and Machine Learning	29-10-2021	Published



2	Dr. Amita, Dr. Manvi & Dr. Ashlesha Gupta	A New Approach for Detecting Face Mask and Controlling COVID using IOT and Artificial Intelligence	30-7-2021	Granted
3	Dr. Lalit Mohan Goyal	Insect Species Classification Method	17-12-2021	Granted
4	Dr. Lalit Mohan Goyal	A Wireless Copter for Explosive Handling and Diffusing	09-09-22	Granted
5	Atul Srivastava, Anuradha Pillai, Deepika Punj, Ashutosh Dixit	Method and System for Creating and Analyzing an Interaction Network	23-05-2022	Granted

## 22. AWARDS/PRIZES WON BY FACULTY DURING THE YEAR

Sr. No.	Title of the Award	Name of the Awardee	Awarding Agency	State/National/International
1	Efficient SPOC Award	Dr. Neelam Duhan	SWAYAM-NPTEL, MoE	National
2	Governor Chancellor Gold Medal award	Dr. Neelam Duhan	JCBOSE University	State
3	Influential Woman Award	Dr. Neelam Duhan	Vocal-for-Local Delhi-NCR	National
4	Visvesvaraya Best Teacher Award 2021	Dr. Neelam Duhan	AICTE	National
5	Lilavati Award 2021-2022	Dr. Sapna Gambhir	AICTE	National
6	Lilavati Award 2021-2022	Dr. Parul Tomar	AICTE	National

## 23. AWARDS/PRIZES WON BY STUDENTS DURING THE YEAR



Sr. No.	Title of the Award	Name of the Awardee	Awarding Agency	State/National/ International
1	Lilavati Award 2021-2022	Ms Khushi Gupta	AICTE	National

#### **24. OUTSTANDING ACHIEVEMENTS 2021-22**

B.Tech Information Technology Program has been granted National Board of Accreditation for further 3 years i.e. upto 30-06-2025.

Dr Neelam Duhan has been awarded the ‘AICTE Visvesvaraya Best Teacher award 2021’

Two faculty members, Dr Parul Tomar and Dr Sapna Gambhir and one student member, Ms Khushi Gupta have been awarded ‘AICTE LILAVATI AWARD 2021-22’ under Sub Theme Women Innovators (Rural/Urban)

Dr Neelam Duhan has been awarded with ‘Influential Women Award’ by Vocal for Local, Delhi 2022

Dr Neelam Duhan has been awarded with ‘Efficient SPOC Award 2021-22’

Team of department students reaches to the final round of ‘AICTE LILAVATI AWARDS 2021-22’

One team of our department was shortlisted for the final round of TOYCATHON, 2021

#### **25. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES**

The department is well equipped with the following facilities:

Sr. No.	Facility	Existing	Added*
1	Labs	11	N/A
2	Workshops	N/A	N/A
3	Lecture Halls	11	N/A
4	Smart Classroom	5	N/A
5	Conference Room	1	N/A
6	Seminar Halls/Projector Rooms/Research Lab	3	N/A
7	Internet Connection	NKN line of length two km with 100 Mbps speed extensible to 1 Gbps , BSNL leased line	N/A



		with 100 Mbps speed	
8	LCD /LED	3	N/A
9	ICT (Projector/OHP/Interactive Board)	13	N/A

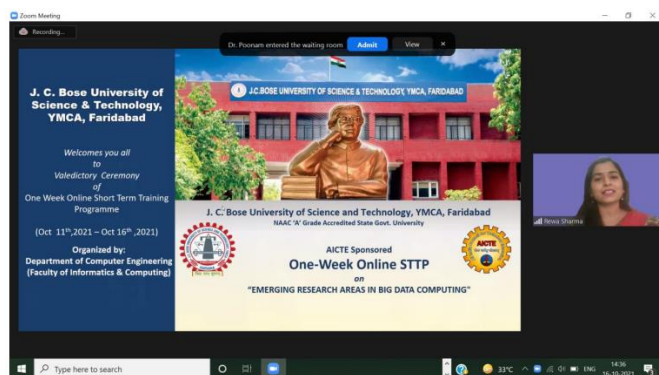
**26. DETAIL OF PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE DEPARTMENT (01/07/2021 TO 30/06/2022)**



Online Short-Term Training Program (STTP) on Emerging Research Areas in Big Data Computing



Online Faculty Development Programme on “Internet of Things” sponsored by AICTE Training and Learning



Short Term Training Program (STTP) on ‘Emerging Research Areas in Big Data Computing’



Hands-on workshop on ‘Microsoft Office for Girl Students of Computer Centre





<p><b>REGISTRATION FORM</b></p> <ol style="list-style-type: none"> <li>Name (Block Letters):</li> <li>Designation:</li> <li>Department:</li> <li>Organization:</li> <li>Address for Communication:</li> <li>E-mail (Mandatory):</li> <li>Mobile Number (Mandatory):</li> <li>Qualification:</li> <li>Specialization:</li> <li>Accommodation Needed (Yes/No):</li> <li>Teaching Experience (Years):</li> <li>Research Experience (Years):</li> </ol> <p>Please register me for the course (FDP) on "Computer Vision and Image Processing" to be held at the campus.</p> <p>Signature of the Applicant</p> <p><b>CERTIFICATE</b></p> <p>This is to certify that _____ is a faculty of our institute and is permitted to attend the 5-day offline FDP on "Computer Vision and Image Processing".</p> <p>Signature of Head of Institution (with office seal)</p>	<p><b>PATRON</b>  <b>Prof. S. K. Tomar</b>                  Vice-Chancellor                  J.C. Bose University of Science and Technology,                  YMCA, Faridabad (Haryana)</p> <p><b>CO-PATRON</b>  <b>Dr. S. K. Garg</b>                  Registrar                  J.C. Bose University of Science and Technology,                  YMCA, Faridabad (Haryana)</p> <p><b>PROGRAMME CHAIR</b>  <b>Prof. Komal Kumar Bhatia</b>                  Dean (Faculty of Informatics &amp; Computing)</p> <p><b>AICTE PROGRAM ADVISOR</b>  <b>Dr. C. K. Nagpal</b>                  Professor (Department of Computer Engineering)</p> <p><b>PROGRAM COORDINATOR</b>  <b>Prof. Atul Mishra</b>                  Chairperson (CE)</p> <p><b>PROGRAM CO-COORDINATORS</b>  <b>Dr. Parul Tomar - +91-9818923336</b>                  Associate professor (CE)  <b>Dr. Payal Gulati - +91-8800311601</b>                  Assistant Professor (CE)  <b>Dr. Sonali Gupta - +91-9999971057</b>                  Assistant Professor (CE)</p> <p><b>ADVISORY COMMITTEE</b>                  Prof. Naresh Chauhan, Professor (CE)                  Prof. Manjeet Singh, Professor (CE)                  Prof. Ashutosh Dixit, Professor (CE)                  Dr. Neelam Duhan, Associate professor (CE)                  Dr. Sapna, Associate professor (CE)                  Dr. Parul Gupta, Associate professor (CE)                  Dr. Anuradha, Associate professor (CE)                  Dr. Jyoti, Associate professor (CE)                  Dr. Harish Kumar, Associate professor (CE)                  Dr. Shilpa Sethi, Associate professor (CA)</p>	  <p>AICTE Sponsored</p> <p><b>ONE WEEK FACULTY DEVELOPMENT PROGRAM</b></p> <p><b>"COMPUTER VISION &amp; IMAGE PROCESSING"</b></p> <p>(30<sup>th</sup> May - 3<sup>rd</sup> June 2022)</p>  <p>organized by  <b>Department of Computer Engineering</b>                  (Faculty of Informatics &amp; Computing)</p>  <p><b>J.C. BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, YMCA, FARIDABAD (HARYANA)</b>                  MAAC 'B' Grade Accredited State Govt. University                  (Established by Haryana State Legislative Act No. 21 of 2009,                  Recognized by U.G.C. Act 2(B), and 10(B) of U.G.C. Act 1956)                  NH - 2, SECTOR-6, MATHURA ROAD, FARIDABAD HARYANA-121006</p> <p><a href="http://jcboseust.ac.in">jcboseust.ac.in</a> <a href="https://www.facebook.com/jcboseust">/jCboseUST</a></p>
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Faculty Development Program on 'Computer Vision and Image Processing'

**BRIEF DETAILS ABOUT THE ACTIVITY**

1. A week long online Short-Term Training Program (STTP) on 'Emerging Research Areas in Big Data Computing' was organized by the Department of Computer Engineering, J.C. Bose University of Science and Technology, YMCA, Faridabad. The weekly programme, sponsored by the All India Council for Technical Education (AICTE) was divided into three sessions per day. Bhopal-based Rajiv Gandhi Proudyogiki Vishwavidyalaya's Vice Chancellor Prof. Sunil Kumar attended the inaugural session as the Chief Guest. The session was presided over by Vice Chancellor Prof. Dinesh Kumar. Registrar Dr. S.K. Garg was also present on this occasion.

One week Online Faculty Development Programme on "Internet of Things" sponsored by AICTE Training and Learning (ATAL) was organized by Department of Computer Engineering J. C. Bose University of Science and Technology, YMCA, Faridabad, from 13th September – 17th September , 2021. This FDP was planned to provide hands on training on various IoT modules so that participants can learn to build their own IoT products for different application domains and to also make participants learn real world application scenarios of IOT along with its social and economic impact using various case studies. The FDP was attended by 170 participants of various institutions from across the country

The week-long Short Term Training Program (STTP) on 'Emerging Research Areas in Big Data Computing' organised by the Department of Computer Engineering, J.C. Bose University of Science and Technology, YMCA, Faridabad concluded today. The programme was sponsored by the All India Council for Technical Education. The programme was attended by scholars and experts from the field of education, as well as industry professionals. A total of 80 participants participated and got benefitted in this Short term training programme.

## Annual Report 2021-22



The Department of Computer Engineering of J.C. Bose University of Science and Technology, YMCA, Faridabad organized a three-day hands-on workshop on 'Microsoft Office for Girl Students of Computer Centre' from 11th Oct, 2021 to 13th Oct, 2021 conducted by Sewa Bharti, Haryana (Purvi). The objective of this workshop was to provide basic understanding of MS Office to the girl students that will enable them to pace with current trends. Vice Chancellor Prof Dinesh Kumar congratulated and appreciated the Department of Computer Engineering for providing an opportunity to these students in enhancing their skillset. He also added that such events shall be organized by the university in future also for aspirants.

Department of Computer Engineering of JC Bose University of Science and Technology, YMCA, Faridabad organized AICTE sponsored 5 day Faculty Development Program on 'Computer Vision and Image Processing' from 30th May to 3rd June, 2022. FDP got the participation of 45 faculties and Phd Scholars from different organizations. FDP constituted of expert Lectures covered by eminent faculties from IIT, NSUT, NIT, GGSIP university, JIS Kolkata in 5 days. They covered various domains and gave insight knowledge about the concerned subject to the participants.



## DEPARTMENT OF COMPUTER APPLICATIONS





## DEPARTMENT OF COMPUTER APPLICATIONS

### 1. DEPARTMENT VISION

The department aims to make a place at both national and international level by producing high quality ethically rich computer engineers and IT professionals conversant with the state-of-the-art technology with the ability to adapt the upcoming challenges in information technology and their Applications to cater to the ever changing industrial and societal needs. It endeavours to establish itself as a centre of excellence in teaching and research to produce skilled human resources for sustainable nation's growth and having technological impact on the people's life.

### 2. DEPARTMENT MISSION

- To provide the future leaders in the area of computer Applications and information technology through the development of human intellectual potential to its fullest extent.
- To enable the students to acquire globally competence through problem solving skills and exposure to latest developments in area of computer Applications and information technologies.
- To educate the students about their professional and ethical responsibilities.

Faculty And Department		
	Name	Joined on
Dean of Faculty:	Prof. Komal Kumar Bhatia	18.05.2020 to till date
Chairperson of the Department:	Prof. Manjeet Singh	20.05.2020 to till date



### 3. DEPARTMENT HIGHLIGHTS

Courses Offered	Existing	Newly Added
UG Course	BCA	NIL
PG Course	MCA	NIL
Others	NIL	NIL

Sr. No.	Course Details	Intake
1.	BCA	60
2.	MCA	60

Student Enrollment		
	Male	Female
Total	70	65
UG Course	34	33
PG Course	36	32

### 4. FACULTY DETAILS

	Professor	Associate Professor	Assistant Professor	Adjunct/Contraual/ Visiting Faculty	Total
Male	1	0	1	0	2
Female	0	1	2	0	3
Total	1	1	3	0	5

### 5. FACULTY PROFILE

Sr n	Name	Qualificatio	Specialization	Designatio	Date of Joining	Experiencein Years
1	Dr. Manjeet Singh	M. Tech an PhD	Natural Language Processing, Artificial Intelligence & Machine Learning	Professor	05/07/2004	20
2	Dr. Shilpa Sethi	M. Tech an PhD	Information Retrieval, Artificial Intelligence & Machine Learning Computer Vision	Associate Professor	03/01/2006	18



3	Dr. Mamta Kathuria	M. Tech an PhD	Computer vision, artificialintelligence, fuzzy logic	Assistant Professor	14/01/2008	15
4	Dr. Manvi	M. Tech an PhD	Information Retrieval, Internet & Web Technologies, Ontology, Big Data	Assistant Professor	14/01/2008	15
5	Dr. Vedpal	M. Tech an PhD	Software Testing , ObjectTechnologies	Assistant Professor	03/08/2009	13.5

#### 6. PAPER PUBLISHED IN INTERNATIONAL JOURNALS (01/07/2021 - 30/06/2022)

Sr. No.	Name of Faculty	Title
1	Dr. Manjeet Singh	Image-basedwheatgrainclassificationusingconvolutionalneuralnetwork, MultimediTTool and Application. 2021
2	Dr. Shilpa Sethi	An optimized crawling technique for maintaining fresh repositories, MultimediTTool and Application. 2021
3	Dr. Shilpa Sethi	Face Mask Detection Using Deep Learning: An Approach to Reduce Risk of Corona Virus Spread, Journal of Bio Informatics, Vol 120, 2021
4	Dr. Shilpa Sethi	A Real-Time IntegratedFaceMask DetectortoCurtailSpreadofCoronavirus, CMES Computer Modelling in Engineering and Sciences, Vol Vol 127, 2021
5	Dr. Manvi	Small files' problem inHadoop:Asystematicliterature review, Journal of king sauduniversitycomputerandinformationsciences, 2021
6	Dr. Manvi	Handling HeterogeneousDatainKnowledgeGraphs: A Survey, Jourtnal of Web Engineering, 2021
7	Dr. Manvi	Web-Based NewsStraining andSummarization UsingMachineLearningEnabled CommunicationTechniquesforLarge-Scale5GNetworksWireless Communications and Mobile Computing, Vol 2022, Article ID 3792816, Page 15
8	Dr. Mamta Kathuria	A Hybrid Approach to Discover Entity Synonyms, International Journal of Information Retrieval Research, Volume 12 • Issue 3, 2022, Pages: 18 DOI: 10.4018/IJIRR.300296
9	Dr. Vedpal	A structural analysis-based test case prioritization technique for object-oriented software "ICIC Express Letters Part B: ApplicationVolume 13, Number 1, January 2022 ISSN 2185-2766pp. 81–88



**7. PAPER PUBLISHED IN INTERNATIONAL CONFERENCES(01/07/2020-30/06/2021)**

Sr. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1	Dr.Vedpal	"Role of Machine Learning in Software Testing," 2021 5th International Conference on Information Systems and Computer Networks (ISCON), Mathura, India, 2021, pp. 1-5, doi: 10.1109/ISCON52037.2021.9702427.

**8. WORKSHOP/STC/INVITED TALKS/WEBINAR/OTHER ACTIVITIES CONDUCTED(01/07/2021 - 30/06/2022)**

Sr. No.	Name of Activity	Title	In collaboration with (if any)	Dates	Name of Coordinator
1	Workshop	Workshop on Coding for Beginner using PYTHON	None	September 18.2021 – January 01. 2022	Dr. Manvi Dr. Vedpal
2	Expert Lecture	“Relevance of IELTS for Overseas Studies”	International Affairs Cell	October 9, 2021	Dr. Shilpa Sethi Dr. Mamta Kathuria
3	Lecture Series	Lecture Series 1.2 on Data Science Evolution by Prof C.K.Nagpal	Department of Computer Engineering	01-04-2022	Dr Poonam
4	Lecture Series	Lecture Series 1.1 on Data Science Evolution by Prof C.K.Nagpal	Department of Computer Engineering	26-03-2022	Dr Poonam
5	Lecture Series	Lecture Series 1.4 on Data Science Evolution by Prof C.K.Nagpal	Department of Computer Engineering	20-04-2022	Dr Poonam
6	Lecture Series	Lecture Series 2.1 on Nature of Language, Mind and Consciousness - I by Prof Manjeet	Department of Computer Engineering	27-04-2022	Dr Poonam





		Singh Tomar			
7	Lecture Series	Lecture Series 2.3 on Nature of Language, Mind and Consciousness - III by Prof Manjeet Singh Tomar	Department of Computer Engineering	25-05-2022	Dr Poonam
8	Lecture Series	Lecture Series 2.2 on Nature of Language, Mind and Consciousness - II by Prof Manjeet Singh Tomar	Department of Computer Engineering	06-05-2022	Dr Poonam
9	Lecture Series	Lecture Series 1.3 on Data Science Evolution by Prof C.K.Nagpal	Department of Computer Engineering	08-04-2022	Dr Poonam
10	Lecture Series	Saturday Lecture Series on Career, Placements and Higher Studies	None	24-07-2021 to 08-07-2022	Dr. Vedpal

**1. STC/FDP/WORKSHOP/ SYMPOSIA/ WORKSHOP ATTENDED BY FACULTY MEMBERS (01/07/2021 TO 30/06/2022)**

Sr.No.	Name of Faculty	Name of STC/ FDP	Organized by	From	To
1	Dr. Shilpa Sethi	Data Analytics using R	J C Bose University of Science and Technology, YMCA	11-07-2021	15-07-2021
2	Dr. Mamta Kathuria	Data Analytics using R	J C Bose University of Science and Technology, YMCA	11-07-2021	15-07-2021
3	Dr. Shilpa Sethi	Emerging Research Areas in BigData Computing	J C Bose University of Science and Technology, YMCA	26-07-2021	31-07-2021
4	Dr. Mamta Kathuria	Emerging Research Areas in BigData Computing	J C Bose University of Science and Technology, YMCA	26-07-2021	31-07-2021
5	Dr. Shilpa Sethi	Emerging Research areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	11-10-2021	16-10-2021
6	Dr. Mamta Kathuria	Emerging Research areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	11-10-2021	16-10-2021





7	Dr. Manvi	Emerging Research Areas in Big Data Computing	J C Bose University of Science and Technology, YMCA	11-10-2021	16-10-2021
8	Dr. Mamta Kathuria	Cloud Computing and Internet of things	J C Bose University of Science and Technology, YMCA	07-02-2022	12-02-2022
9	Dr. Shilpa Sethi	ATAL FDP on Data Science	J C Bose University of Science and Technology, YMCA	21-02-2022	25-02-2022
10	Dr. Mamta Kathuria	ATAL FDP on Data Science	J C Bose University of Science and Technology, YMCA	21-02-2022	25-02-2022
11	Dr. Manvi	ATAL FDP on Data Science	J C Bose University of Science and Technology, YMCA	21-02-2022	25-02-2022

## 2. INVITED TALKS/LECTURES DELIVERED BY FACULTY MEMBERS (01/07/2021 -30/06/2022)

Sr.No.	Name of Faculty	Topic	Venue	Date
1	Prof Manjeet Singh	Lecture Series 2.1 on Nature of Language, Mind and Consciousness -I	J.C. Bose University of Science and Technology, YMCA, Faridabad	27-04-2022
2	Prof Manjeet Singh	Lecture Series 2.2 on Nature of Language, Mind and Consciousness -II	J.C. Bose University of Science and Technology, YMCA, Faridabad	06-05-2022
3	Prof Manjeet Singh	Lecture Series 2.3 on Nature of Language, Mind and Consciousness -III	J.C. Bose University of Science and Technology, YMCA, Faridabad	25/05/2022
4.	Dr. Vedpal	Being Industry Ready	Govt. College Mohna, Faridabad, Haryana	17-02-2022
5	Dr. Vedpal	Inroduction To Machine Learning	Govt. College Mohna, Faridabad, Haryana	02-04-2022
6	Dr. Vedpal	Data Science	Government College, Bahadurgarh, Haryana	21-05-2022



**3. FACULTY SERVING IN  
STATE/NATIONAL/INTERNATIONAL COMMITTEES, EDITORIAL BOARDS  
ETC.(01/07/2021 - 30/06/2022)**

Sr. No.	Name of Faculty	
1	Dr. Shilpa Sethi	Reviewr , IEEE ACCESS, CSI membership, IEEE Membership
2	Dr.Mamta Kathuria	Member IEEE

**4. DETAILS OF STUDENTS QUALIFYING COMPETITIVE EXAMS (GATE/CAT/  
OTHER EXAM ETC.)(01/07/2021 TO 30/06/2022)**

Sr. No.	Name of Exam	Name of Student	Exam Roll Number	Ranking/Score
NIL				

**5. TRAINING PROGRAMMES HELD FOR STUDENTS DURING THE YEAR**

Date	Name of Activity	Number of Participants
18-09-2021 to 10-01-2022	Workshop on Coding for Beginner using PYTHON	250
08-07-2021 to 24-07-2021	Saturday Lecture Series on Career, Placements and Higher Studies	250

**6. ANY OTHER TRAINING PROGRAMMES HELD FOR FACULTY  
AND STAFF(FOR CAPACITY BUILDING)**

Date	Name of Activity	No of Participants
26/07/2021 to 31/07/2021	Emerging Research Areas in Big Data Computing	103
13/09/2021 to 17/09/2021	Faculty Development Programme on “Internet of Things”	170
11/10/2021 to 16/10/2021	Short Term Training Program (STTP) on ‘Emerging Research Areas in Big Data Computing’	80
30/05/2022 to 03/06/2022	FDP on Computer Vision and Image Processing	45

**7. WHETHER MENTOR/MENTEE MEETING HELD REGULARLY: YES**

**8. PATENT PUBLISHED /AWARDED DURING THE YEAR**

Sr.No.	Name of faculty member	Title of Patent	Date of Award/ Publication	Status
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1	Dr. Amita, Dr. Manvi & Dr. Ashlesha Gupta	A New Approach for Detecting Face Mask and Controlling COVID using IOT and Artificial Intelligence	30-7-2021	Granted
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**9. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES**

The department is well equipped with the following facilities:

Sr. No.	Facility	Existing
1.	Labs	04
2.	Workshops	Nil
3.	Lecture Halls	05
4.	Smart Classroom	01
5.	Conference Room	01
6.	Seminar Halls/Projector Rooms/Research Lab	01
7.	Internet Connection Speed	1GBPS
8.	LCD /LED	Nil
9.	ICT (Projector/OHP/Interactive Board)	04
10.	Any Other Facility	Nil

**10. DETAIL OF PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE DEPARTMENT (01/07/2021 TO 30/06/2022)**

**Chief Guest**  
**Prof. Sunil Kumar**  
 Hon'ble Vice Chancellor, RGPM, Bhopal (MP)

**Patron**  
**Prof. Dinesh Kumar**  
 Hon'ble Vice Chancellor, IC Bose UOI, YMCA, Faridabad

**Co-Patron**  
**Dr. Sunil Kumar Garg**  
 Registrar, IC Bose UOI, YMCA, Faridabad

**Program Chair**  
**Prof. Komal Kumar Bhatia**  
 Dean (Faculty of Informatics & Computing) | Chairperson (Department of Computer Engineering)

**Program Coordinator**  
**Prof. Atul Mishra**  
 Professor | Department of Computer Engineering

**26<sup>th</sup> - 31<sup>st</sup> JULY, 2021**

**Program Co-ordinator**  
**Dr. Jyoti**  
 Associate Professor (Department of Computer Engineering)

**Faculty Members**  
**Dr. Mamta Kathuria**  
 Assistant Professor | Department of Computer Application

**Dr. Preeti Sethi**  
 Assistant Professor | Department of Computer Engineering

**Dr. Rashmi Popli**  
 Assistant Professor | Department of Computer Engineering

**ONE - WEEK ONLINE STTP**

For any Queries, Contact at: [fdp.ceit.ymca@gmail.com](mailto:fdp.ceit.ymca@gmail.com)

Join us on Zoom using Link: <https://us02web.zoom.us/j/3102995039>





**FACULTY OF  
MANAGEMENT STUDIES**





# DEPARTMENT OF MANAGEMENT STUDIES



## DEPARTMENT OF MANAGEMENT STUDIES

### 1. INTRODUCTION

The Department of Management Studies is one of the faculties of J.C. Bose University of Science and Technology, YMCA formerly known as YMCA University of Science and Technology. The University is presently NAAC accredited 'A' Grade State Government University and most of the University Teaching Departments (UTDs) are accredited by National Board of Accreditation.

The Department of Management Studies came into existence in the year 2008 with MBA program offering specializations in Information Technology, Operations and Power Management. The program was meant for technical graduates only. Since 2011, the MBA program has been opened for all graduates. With an aim to promote academic growth at various levels, now department offers following high quality management programs:

- MBA (with dual specializations)
- MBA - Executive
- BBA
- Ph.D.

The department follows international standard curricula which are developed in consultation with eminent academicians and industry practitioners. The program delivery is done by well qualified, competent, research-oriented, and experienced faculty and experts from industry.

### 2. DEPARTMENT VISION

To build aspiring managers and entrepreneurs possessing good analytical skills and leadership qualities for effective decision making to contribute to the society and the nation.

### 3. DEPARTMENT MISSION

1. To provide a learning environment to young aspirants by introducing suitable pedagogy and innovative industry-based curriculum.
2. To provide best research facilities for developing analytical capabilities.
3. To impart effective managerial skills for transformation of raw minds into effective managers and entrepreneurs.

Faculty and Department		
	Name	Tenure
Dean of Faculty	Prof. Ashutosh Nigam	11.04.2022- till date
Chairperson of the Department	Dr. Rachna Agrawal	11.04.2022- till date

#### 4. DEPARTMENT HIGHLIGHTS

Courses Offered	Existing	Newly added
UG Course	BBA	—
PG Course	MBA (A), MBA (B), MBA Executive	—
PhD	PhD	
Others		

Sr. No.	Course Details	Intake
1.	BBA	60
2.	MBA (A)	60
3.	MBA (B)	60
4.	MBA Executive	60
5.	Ph.D.	21 (Pursuing)

Student Enrollment		
	Male	Female
Total	129	110
UG Course	36	32
PG Course	91	67
PhD	2	11

#### 5. FACULTY DETAILS

Sr. No.	Professor	Associate Professor	Assistant Professor	Adjunct/Contractual/ Visiting Faculty	Total
Male	1	0	2	2	5
Female	0	2	7	2	11
Total	1	2	9	4	16

#### 6. FACULTY PROFILE

Sr. No.	Name & Designation	Qualification & Specialization	Total Experience (in years)	Publication			Book/ Chapter
				SCI/SCIE/SSCI	SCOPUS	UGC Approved Care/Referred	
1.	Dr. Ashutosh Nigam, Professor	Ph.D. (2005), Marketing and IT	20	1	3	50	4



2.	Dr. Manisha Goel, Associate Professor	Ph.D. (2008), Foreign Exchange Risk Management and Consumer Behaviour	22	9	9	44	8
3.	Dr. Rachna Agrawal, Associate Professor	Ph.D. (2009), Finance and Behavioural Studies	20	1	1	40	14
4.	Dr. Rupali Madan, Assistant Professor	Ph.D. (2019), Marketing	16	1	0	5	7
5.	Dr. Anushree Chauhan, Assistant Professor	Ph.D. (2019), Human Resource Management	17	3	1	7	2
6.	Dr. Neha Goyal, Assistant Professor	Ph.D. (2017), Finance	14	1	1	4	5
7.	Dr. Jyotsana Chawla, Assistant Professor	Ph.D. (2020), Finance	15	0	0	4	7
8.	Dr. Rajiv Sindwani, Assistant Professor	Ph.D. (2017), Service Quality	16	3	4	10	3
9.	Dr. Renu Aggarwal, Assistant Professor	Ph.D. (2011), Finance	19	1	2	12	7
10.	Dr. Sapna Taneja, Assistant Professor	Ph.D. (2017), Human Resource	7.5	4	3	2	1

11.	Dr. Parveen Kumar, Assistant Professor	Ph.D. (2020), Finance & Marketing	9.5	0	3	15	2
12.	Dr. Arti Gupta, Assistant Professor	Ph.D. (2019), Human Resource Management	7	1	3	4	1
13.	Dr. Gunjan Gumber	Ph.D. (2018) Marketing	11	0	1	7	4
14.	Dr. Aniruddh Vijay	Ph.D. (2021) Insurance and Marketing	8.5	0	0	9	0
15.	Mr. Vikas Kumar	MBA (2014) Entrepreneurship	7.5	0	0	0	0
16.	Dr. Shruti	Ph.D (2020) Finance	4.5	2	5	2	1

#### 7. NON-TEACHING STAFF

Sr. No.	Name and Designation	Qualification	Date of Joining
1.	Mr. Parveen Tanwar, DEO	B.A	1 August 2016
2.	Mr. Suraj, Peon	8th	26 June 2016
3.	Ms. Mona, Peon	12th	April 2021

#### 8. FACULTY MEMBERS SPONSORED FOR STP/COURSES/WORKSHOPS OR CONFERENCES ( 1.07.2021 TO 30.06.2022)

Sr. No.	Name of Faculty Member	Course/Workshop/Conferences	Sponsored by	Date
1.	Prof.	Cardinal Role of	Aggarwal College,	7 <sup>th</sup> to 14 <sup>th</sup> July,

	Ashutosh Nigam	Quality Education in Developing Self-Reliant India	Ballabgarh	2021
2	Dr. Rachna Agrawal	ISDSI global conference	IIM Nagpur	27-30th December 2021
3	Dr. Rupali Madan	STTP on, "Research excellence and academic development: Modern Library Practices in present scenario"	J C Bose UST YMCA, Faridabad	28th Feb 2022 to 5th March 2022
		One-week FDP on WORK-LIFE BALANCE FOR TECHNOCRATS	DMS, JCBOSEUST, YMCA	20th May to 24th May 2022
4	Dr. Anushree Chauhan	STTP on, "Research excellence and academic development: Modern Library Practices in present scenario"	J C Bose UST YMCA, Faridabad	28th Feb 2022 to 5th March 2022
		Work Life Balance for Technocrats (AICTE sponsored)		
5	Dr. Neha Goyal	INDAM 2022	IIM, Rohtak	7-9 January 2022
		ISDSI-GLOBAL Conference 2021	IIM Nagpur, India	27 to 30 December 2021
		5 th INTERNATIONAL CONFERENCE ON	Department of Computer Science and Engineering Vasavi	17th – 18th September, 2021

		SMART COMPUTING AND INFORMATICS (SCI-2021)	College of Engineering (Autonomous), Hyderabad, India	
6	Dr. Jyotsana Chawla	STTP on, "Research excellence and academic development: Modern Library Practices in present scenario"	J C Bose UST YMCA, Faridabad	28th Feb 2022 to 5th March 2022
7.	Dr. Renu Aggarwal	STTP on, "Research excellence and academic development: Modern Library Practices in present scenario"	J C Bose UST YMCA, Faridabad	28th Feb 2022 to 5th March 2022
8.	Dr. Aniruddh Vijay	One week PDP	J C Bose UST YMCA, Faridabad	28th June to 3rd July 2021
9.	Dr. Gunjan Gumber	Work Life Balance for Technocrats	DMS, JCBOSEUST, YMCA	20th May 2022 – 24th May 2022
10.	Dr. Sapna Taneja	Structural Equation Modeling and Artificial Neural Network in Management Research	Online FDP by ATAL academy, AICTE	7th December 2021 to 11th December 2021
		Research Excellence and Academic Development: Modern Library Practices in Present	One week AICTE Sponsored online STTP by JCBUST YMCA, Faridabad	28 <sup>th</sup> February 2022 to 5 <sup>th</sup> March 2022

		Scenario		
		Talent Acquisition and Management	NPTEL Online Course	Jan-April 2022 (12 Weeks)
		4 Week online Induction/Orientation Programme for Faculty in Universities/Colleges/Institutes of Higher Education	Teacher Learning Centre, Ramanujan College, University of Delhi Under the aegis of the Ministry of Education	21st March 2022 to 19 <sup>th</sup> April 2022
		Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College, Ballabgarh	7 <sup>th</sup> to 14 <sup>th</sup> July, 2021
11.	Mr. Vikas Kumar	Work Life Balance for Technocrats	DMS, JCBOSEUST, YMCA	20th May 2022 – 24th May 2022
		Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College, Ballabgarh	7 <sup>th</sup> to 14 <sup>th</sup> July, 2021
12	Dr. Shruti	Work-Life Balance For Technocrats	DMS, JCBOSEUST, YMCA	20th May 2022 – 24th May 2022
13	Dr. Arti Gupta	Work-Life Balance For Technocrats	DMS, JCBOSEUST, YMCA	20th May 2022 – 24th May 2022
14	Dr. Gunjan Gumber	Work-Life Balance For Technocrats	DMS, JCBOSEUST, YMCA	20th May 2022 – 24th May 2022
15	Dr Parveen Kumar	4 Week online Induction/Orientation Programme for Faculty in Universities/Colleges/Institutes of	Teacher Learning Centre, Ramanujan College, University of Delhi Under the aegis of the Ministry of Education	21/03/2022 to 19/04/2022

		Higher Education		
		Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College, Ballabgarh	7 <sup>th</sup> to 14 <sup>th</sup> July, 2021
		Work-Life Balance For Technocrats	DMS, JCBOSEUST, YMCA	20th May 2022 – 24th May 2022
		MDP on “Business Analytics using R”	J.C. Bose University of Science and Technology, YMCA, Faridabad.	23-24 <sup>th</sup> April 2022
16	Dr Rajiv Sindwani	STTP on, "Research excellence and academic development: Modern Library Practices in present scenario"	J C Bose UST YMCA, Faridabad	28th Feb 2022 to 5th March 2022
		WORK-LIFE BALANCE FOR TECHNOCRATS	DMS, JCBOSEUST, YMCA	20th May 2022 – 24th May 2022

#### 9. DEPARTMENTAL PUBLICATIONS AND FDP/STC/WORKSHOP

Sr. No.	Particular	Count
1.	Publications in International Journals	12
2.	Publications in National Journals	1
3.	Publications in International Conferences	15
4.	Publications in National conferences	5
5.	Workshop	0
6.	STC/FDP	1

**10. PAPER PUBLISHED IN INTERNATIONAL JOURNALS (1.07.2021 TO 30.06.2022)**

Sr. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
1.	Prof. Ashutosh Nigam	<p>Gupta Komal, Nigam Ashutosh and Goyal Neha (2021) A Critical Review of Antecedents and Consequences of Employee Loyalty Using NVIVO, Pacific Business Review Vol 13, Issue 12 June 2021</p> <p>Kathuria Akansh and Nigam A (2022), Consumer Decision Making Towards Selection of Multiplex Using MCDM Technique Journal of Emerging Technologies and Innovative Research, Vol 0, issue 02 ,February 2022</p>
2	Dr. Rachna Agrawal	Gupta, R., Agrawal, R., & Gupta, A. (2022). Flying journey and the contemporary customers combating COVID-19: the 'need' of the hour. <i>International Journal of Applied Decision Sciences</i> , 15(5), 623-640 (SCOPUS).
3	Dr. Rachna Agrawal	Gupta, R., & Agrawal, R. (2021). Are the concerns destroying mental health of college students?: A qualitative analysis portraying experiences amidst COVID-19 ambiguities. <i>Analyses of Social Issues and Public Policy</i> , 21(1), 621-639 (SSCI).
4	Dr. Neha Goyal	<p>Rani, S., &amp; Goyal, N. (2022). Potential Sub-Topics and Trend Topics in Financial Literacy: A Bibliometric Analysis. <i>International Journal of Accounting &amp; Finance Review</i>, 10(1), 35-52.</p> <p>RANI, S., &amp; GOYAL, N. (2021). Gender Gap in Financial Literacy: Literature Review. <i>Journal of Tianjin University of Science and Technology</i>, 54(08), 339-354.</p>
5	Dr. Sapna Taneja	Modeling of critical success factors of AMT implementation using TISM and SEM, communicated in 'International Journal of Business Performance Management', ESCI, ISSN: 1368-4892.
6	Dr. Shruti	Singh, K.N. & Malik, S. "COVID-19 crisis – an opportunity for mainstreaming digital financial transactions" Int. J. Electronic Finance, Vol. 11, No. 3. (2022) (SCOPUS)
7	Dr. Shruti	Singh, K.N. & Malik, S. "An empirical analysis on household financial vulnerability in India: exploring the role of financial

		knowledge, impulsivity and money management skills” Managerial Finance, Vol. 48 No. 9/10, pp. 1391-1412 (SCOPUS & B listed Journal)
8	Dr. Arti Gupta	Arti Gupta (2022), “Prioritizing factors of retention for information technology professionals: an application of multi-criteria decision-making technique “International journal of Indian culture and business management, Inderscience (Under publication).
9	Dr. Renu Aggarwal	Jakhar Jalbir Aggarwal Renu , A paper titled Review of Literature in Context of the evaluating Effectiveness of skill development Programme in India, published in Scopus indexed journal of elementary education online 2021, Volume 20 issue 6, PP 1452-1469 ISSN1305-3515
10	Dr Parveen Kumar	Mahesh Chand Garg & Parveen Kumar, 2022. "Gap between expectation and perception of customers about e-banking services for each service quality dimension in selected public and private sector banks in India," International Journal of Services and Operations Management, Inderscience Enterprises Ltd, vol. 42(4), pages 525-538. (scopus)
11	Dr Anushree	Chauhan, A., & Arora, R. G. (2022). Employee retention in post COVID scenario: A graph theoretic approach. International Journal of Health Sciences,6(S4), 7782–7798

#### 11. PAPER PUBLISHED IN NATIONAL JOURNALS (1.07.2021 TO 30.06.2022)

Sr. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
1.	Dr. Renu Aggarwal	Aggarwal R and Aggarwal Tripti (2021) a paper titled,” Blended Learning: A Panacea for effective Teaching and Learning published in national journal of social, Legal and Multidisciplinary studies peer reviewed and refereed journal ISSN 2454-4183 special issue



**12. PAPER PUBLISHED IN NATIONAL CONFERENCES (1.07.2021 TO 30.06.2022)**

Sr. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1.	Dr. Arti Gupta	Arti Gupta (2021), “Attributes Influence Consumer Preference, Selection and Revisit Intention to a Fine-Dining Restaurant”, ISDSI-Global Conference 2021 Leading Business in a Fluid world, IIM, Nagpur.
2.	Dr. Renu Aggarwal	<p>Presented a paper titled “International Trade issues and challenges during Pandemic” in Two day online international conference on contemporary Trends and challenges in Global Business environment approved by DHE and organized by Markand National college Shahabad on 8-9 April2022</p> <p>A Paper presented in DRDO sponsored international conference held at Aggarwal college Ballabgarh on role of ICT during COVID 19 on 29-30 January 2022</p> <p>A Paper presented titled Blended Learning: A Panacea for Effective Teaching and Learning in national conference organized by HSNC and Droit Penale Group in collaboration with PMMMNMTT from 22-23 Oct. 2021</p> <p>Presented a paper titled Methods and Techniques of Research Methodology in one day DHEsponsored national webinar on research Methodology organized by INDIRA Gandhi National College, LADWA (KUK) on 29th September 2021</p>

**13. PAPER PUBLISHED IN INTERNATIONAL CONFERENCES (1.07.2021 TO 30.06.2022)**

Sr. No.	Name of Faculty Member	Authors, Title, Conference, Dates, year, Pages
1.	Dr. Arti Gupta	Arti Gupta (2022), “A Systematic Literature Review on Factors Affecting Consumer Revisit Intention in a Fine-

		Dining Restaurant”, 12th International Conference on Indigenous & Cultural Tourism: Envisioning Peace and Development for Community Wellbeing, Central University Of Himachal Pradesh.
2.	Dr. Arti Gupta	Arti Gupta (2023) “Attrition rate prediction using ANN and SVN”, International Conference on emerging trends in business and management, Presidency Business School, Bengaluru, 19-20th January 2023.
3.	Dr. Sapna Taneja	Paper on “ <b>Employee retention strategies</b> ” was presented in the international conference on “Integrated Approaches in Science & Technology for Sustainable Future” IASTSF 2022 held in JCBUST, YMCA, Faridabad from 28th Feb to 1st March 2022.
4.	Dr. Rachna Agrawal	Paper on “An analysis of efficiency of foreign exchange reserve among nine countries: An application of DEA” held in MDI
5.	Dr. Neha Goyal	“Role of Human Resource Metrics in Post Pandemic World” conference INDAM 2022 held at IIM, Rohtak, 7-9 January 2022
6	Dr. Neha Goyal	“Determinants of Virtual Employee Engagement with reference to Employees of Software Companies” in ISDSI-GLOBAL Conference 2021 held at IIM Nagpur, India, 27 to 30 December 2021
7	Dr. Neha Goyal	“Analysis of sentiment of Twitter data on remote working” in 5 th INTERNATIONAL CONFERENCE ON SMART COMPUTING AND INFORMATICS (SCI-2021), held at Department of Computer Science and Engineering Vasavi College of Engineering (Autonomous), Hyderabad, India, 17th – 18th September, 2021
8.	Dr. Shruti	Malik, S & Singh, K. (2021), “Role of financial attitude and financial knowledge in resilience-building financial behaviour in a developing economy like India”, at the Asia Pacific Financial Education Institute (APFEI), co-hosted by the Sim

		Keel Boon Institute for Financial Economics (SKBI) at the Singapore Management University, directed by the Global Financial Literacy Excellence Center (GFLEC).
9	Dr Ashutosh Nigam	“Analysis of sentiment of Twitter data on remote working” in 5th INTERNATIONAL CONFERENCE ON SMART COMPUTING AND INFORMATICS (SCI-2021), held at Department of Computer Science and Engineering Vasavi College of Engineering (Autonomous), Hyderabad, India, 17th – 18th September, 2021
10	Dr Ashutosh Nigam	Role of Human Resource Metrics in Post Pandemic World” conference INDAM 2022 held at IIM, Rohtak, 7-9 January 2022
11	Dr Ashutosh Nigam	Human Resource Flexibility and Employee Engagement Investigation from Software Companies Conference GLOGIFT 21 held at IIM Shillong, April 21-23, 2022
12	Dr Ashutosh Nigam	Analysis of Sentiment of Twitter Data on Remote Working, 5th International Conference on Smart Computing and Informatics held at Vasvani College of Engineering, Hyderabad 17-18 September 2021
13	Dr Ashutosh Nigam	Determinants of Virtual Employee Engagement with reference to Employees of Software Companies, Held at IIM Nagpur, December 27-30, 2021
14	Dr Anushree Chauhan	Analysing the motivation index of higher education academicians. In international conference 3Ds(Data Analytics, Digitalization & Disruption) in Business society) held at ITS Ghaziabad, India on 21st-22nd April 2022
15	Dr Anushree Chauhan	A relational study on employee retention in post covid scenario in international conference 3Ds (Data Analytics, Digitalization & Disruption) in Business society) held at ITS Ghaziabad, India on 21st-22nd April 2022

**14. WORKSHOP/STC/INVITED TALKS/WEBINAR/OTHER ACTIVITIES  
CONDUCTED**

<b>Sr. No.</b>	<b>Name of Activity</b>	<b>Title</b>	<b>In collaboration with (if any)</b>	<b>Dates</b>	<b>Name of Coordinator</b>
1.	Webinar on, "Entrepreneurship skill, attitude and behaviour development"	Entrepreneurship skill, attitude and behaviour development	IIC, DSW	28th Jan 2022	Dr Jyotsana Chawla
2.	Webinar on, "Govt. initiatives and schemes for startups"	Govt. initiatives and schemes for startups	IIC, DSW	18th Nov 2021	Dr Jyotsana Chawla, Dr Gunjan Gumber
3.	Webinar on, "Financial Literacy through gamification"	Financial Literacy through gamification	Department of Management Studies	5th July 2021	Dr Anushree Chauhan, Dr Jyotsana Chawla
4.	AICTE Sponsored FDP	WORK-LIFE BALANCE FOR TECHNOCRATS	Department of Management Studies and AICTE	20th May 2022 – 24th May 2022	Dr, Arti Gupta and Dr. Anushree Chauhan
5.	Management Development Program	MDP on "Business Analytics using R"	Department of Business Studies	23-24 April 2022	Dr Parveen Kumar, Dr Shruti and Dr Rashmi
7.	Invited Talk	Research Paper Writing	Excellence Bring Success	October 18-23,2021	Dr Ashutosh Nigam

**15. STC/FDP/WORKSHOP/ SYMPOSIA/ WORKSHOP ATTENDED BY FACULTY MEMBERS**

Sr.No	Name of Faculty Member	Name of STC/ FDP	Organized by	Date	
				From	To
1.	Dr. Rachna Agrawal	STTP on, "Research excellence and academic development: Modern Library Practices in present scenario	JCBOSEUST, YMCA	28th Feb 2022	5th March 2022
2.	Dr. Anushree Chauhan	STTP on, "Research excellence and academic development: Modern Library Practices in present scenario	JCBOSEUST, YMCA	28th Feb 2022	5th March 2022
	Dr. Anushree Chauhan	Work life balance for technocrats	DMS, JCBOSEUST, YMCA	20th May 2022	24th May 2022
3	Dr. Neha Goyal	Basic Statistical Analysis and its interpretation using SPSS	Ispire Softech Solutions, Chennai	18.09.2021	20.09.2021
		7th Biennial Conference pre workshop	IIM, Rohtak	06.01.2022	06.01.2022
		Systematic Literature Review and Bibliometric Analysis	LBSIM, Delhi	26 August 2022	27th August 2022

4	Dr. Jyotsana Chawla	STTP on, "Research excellence and academic development: Modern Library Practices in present scenario"	JCBOSEUST, YMCA	28th Feb 2022	5th March 2022
	Dr. Jyotsana Chawla	One week FDP on Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College, Ballabhgarh	7th July 2021	14th July 2021
5	Dr. Renu Aggarwal	One week FDP on Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College, Ballabhgarh	7th July 2021	14th July 2021
		One-week FDP on WORK-LIFE BALANCE FOR TECHNOCRATS	DMS, J C Bose UST YMCA Faridabad	20th May 2022	24th May 2022
6.	Dr. Sapna Taneja	Structural Equation Modeling and Artificial Neural Network in Management Research	Online FDP by ATAL academy, AICTE	7/12/2021	11/12/2021
		Research Excellence and Academic Development: Modern Library Practices in Present Scenario	One week AICTE Sponsored online STTP by JCBUST YMCA, Faridabad	28/02/2022	5/3/2022

		Talent Acquisition and Management	NPTEL Online Course	Jan 2022	April 2022
		4-Week online Induction/Orientation Programme for Faculty in Universities/Colleges/Institutes of Higher Education	Teacher Learning Centre, Ramanujan College, University of Delhi Under the aegis of the Ministry of Education	21 <sup>st</sup> March 2022	19 <sup>th</sup> April 2022
		Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College, Ballabgarh	7 <sup>th</sup> July, 2021	14 <sup>th</sup> July, 2021
7	Dr. Parveen Kumar	4-Week online Induction/Orientation Programme for Faculty in Universities/Colleges/Institutes of Higher Education	Teacher Learning Centre, Ramanujan College, University of Delhi Under the aegis of the Ministry of Education	21 <sup>st</sup> March 2022	19 <sup>th</sup> April 2022
		Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College, Ballabgarh	7 <sup>th</sup> July 2021	14 <sup>th</sup> July, 2021
		Work-Life Balance for Technocrats	DMS, JCBOSEUST, YMCA	20th May 2022	24th May 2022
		MDP on “Business Analytics using R”	DBS, JCBOSEUST,	23 April 2022	24 April 2022

			YMCA		
8.	Dr. Arti Gupta	Work Life Balance for Technocrats	DMS, JCBOSEUST, YMCA	20th May 2022	24th May 2022
	Dr. Arti Gupta	4-Week Induction/Orientation Programme for “Faculty in Universities/Colleges/Institutes of Higher Education	Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry of Education Pandit Madan	21st March	19 April, 2022
9	Dr. Gunjan Gumber	One-week FDP on WORK-LIFE BALANCE FOR TECHNOCRATS	DMS, JCBOSEUST, YMCA	20th May 2022	24th May 2022
	Dr. Gunjan Gumber	One week FDP on Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College, Ballabgarh	7th July 2021	14th July 2021
	Dr. Gunjan Gumber	Services Marketing: A Practical Approach (Four weeks)	IIT Kharagpur, NPTEL SWAYAM	January 2022	February 2022
10.	Dr. Aniruddh Vijay	One-Week Fdp On Work-Life Balance For Technocrats	DMS, JCBOSEUST, YMCA	20th May 2022	24th May 2022



	Dr. Aniruddh Vijay	One week FDP on Innovation Management	ATAL Academy and IIT Allahabad, Prayagraj	12 July 2021	16 July 2021
	Dr. Aniruddh Vijay	One week FDP on Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College, Ballabgarh	7th July 2021	14th July 2021
	Dr. Aniruddh Vijay	One week FDP on Introduction to Social Entrepreneurship	Gujarat National Law University	3rd August 2021	7th August 2021
11.	Mr. Vikas Kumar	One-Week Fdp On Work-Life Balance For Technocrats	Department of Management Studies in collaboration with the Department of Electronic Engineering. This program was sponsored by AICTE	20th May 2022	24th May 2022
		One week FDP on Cardinal Role of Quality Education in Developing Self-Reliant India	Aggarwal College, Ballabgarh	7th July 2021	14th July 2021
12.	Dr. Shruti	One-Week Fdp On Work-Life Balance For Technocrats	DMS, JCBOSEUST, YMCA	20th May	24th May 2022
13	Dr Rupali Madan	One-Week Fdp On Work-Life Balance For Technocrats	DMS, JCBOSEUST, YMCA	20th May	24th May 2022

		STTP on, "Research excellence and academic development: Modern Library Practices in present scenario	JCBOSEUST, YMCA	28th Feb 2022	5th March 2022
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**16. INVITED TALKS/LECTURES DELIVERED BY FACULTY MEMBERS (1.07.2021  
TO 30.06.2022)**

<b>Sr. No.</b>	<b>Name of Faculty Member</b>	<b>Topic</b>	<b>Venue</b>	<b>Date</b>
1	Dr. Rachna Agrawal	Session chaired at 3rd International Finance Conference 2022 (IFC 2022)	Centre for Management Studies, Jamia Millia Islamia, New Delhi	29-30 March, 2022
2	Dr. Rachna Agrawal	Thesis evaluated titled “Volatility Spillovers and Contagion from Developed to Emerging Stock Markets”	Centre for Management Studies, Jamia Millia Islamia, New Delhi	July 2021
3	Dr. Arti Gupta	Techniques of time management	Department of Management Studies in collaboration with the Department of Electronic Engineering. This program was sponsored by AICTE	24th May 2022
4	Dr. Arti Gupta	Time Management	Department of Management Studies	21st December 2022
5.	Dr. Aniruddh Vijay	SPSS	JMC Department, JC Bose UST, YMCA	1st and 2nd Aug 2022

**17. FACULTY SERVING IN STATE/NATIONAL/INTERNATIONAL COMMITTEES,  
EDITORIAL BOARDS ETC. (1.07.2021 TO 30.06.2022)**

<b>Sr. No.</b>	<b>Name of Faculty Member</b>	<b>The Details</b>
1.	Prof. Ashutosh Nigam	Member, Editorial Board, Anvesha e-journal.
2.	Dr. Manisha Goel	Reviewer, International Journal of Organizational Analysis published by Emerald.
3.	Dr. Manisha Goel	Reviewer, International Journal of Business and Globalisation published by Inderscience Publishers.
4.	Dr. Manisha Goel	Reviewer, Palgo Journal of Business Management (Palgo journal)
5.	Dr. Manisha Goel	Reviewer, International Journal of Public Sector Performance Management published by Inderscience Publishers.
6.	Dr. Manisha Goel	Member, Editorial board of Journal of General Management Research published by SCMS NOIDA.
7	Dr. Shruti	Reviewer, International Journal of Bank & Marketing (Emerald)-A Category Journal
8	Dr. Shruti	Reviewer, Asia-Pacific Journal of Regional Science (Springer)
9	Dr Rupali Madan	Reviewer, Vision: The Journal of Business Perspective.
10	Dr. Arti Gupta	Editorial Board Member of Journal of Advances in Management Sciences & Information Systems.
11	Dr. Arti Gupta	Reviewer for International Journal of Organizational Analysis, Emerald (Scopus & ABDC).
12.	Dr. Arti Gupta	Reviewer for Journal of Hospitality and Tourism Management, Elsevier. (SSCI & ABDC).

13	Dr. Shruti	Reviewer, International Journal of Social Economics (Emerald)-SCI & B category Journal
14	Dr. Rachna Agrawal	Reviewer, Analyses of Social Issues and Public Policy (SSCI)
15	Dr. Rachna Agrawal	Reviewer, International Journal of Tourism Policy (ABDC and Scopus)
16	Dr. Renu Aggarwal	Reviewer FIB scopus index international journal

**18. DETAILS OF STUDENTS QUALIFYING COMPETITIVE EXAMS (GATE/CAT/ OTHER EXAM ETC.) (1.07.2021 TO 30.06.2022)**

Sr. No.	Name of Exam	Name of Student	Exam Roll Number	Ranking/Score
1.	CA Foundation	Bhawna Garg	124837	224/400
2.	CMAT	Yogita Bhati	HR03000094	9184
3	UGC NET	Jyoti Singh	HR03003055	Qualified

**19. ANY OTHER TRAINING PROGRAMMES HELD FOR FACULTY AND STAFF(FOR CAPACITY BUILDING)**

Date	Name of Activity	Name of Participants
20th May-25th May, 2022	One-week FDP on WORK-LIFE BALANCE FOR TECHNOCRATS	Faculty members count 57

**20. SPONSORED R&D PROJECTS IN-HAND**

<b>Sr. No.</b>	<b>Name of Principal Investigator</b>	<b>Title of Research Project</b>	<b>Funding Agency</b>	<b>Duration</b>	<b>Year of Allotment</b>	<b>Amount (Rs.)</b>
1.	Dr. Sapna Taneja	Understanding and Promoting Gig Workers' Well-being in Indian Education Sector	ICSSR	1 Year	2022	<b>3.67 Lacs</b>

**21. WHETHER MENTOR/MENTEE MEETING HELD REGULARLY: YES**

**22. AWARDS/PRIZES WON BY FACULTY DURING THE YEAR (1.07.2021 TO 30.06.2022)**

<b>Sr. No.</b>	<b>Title of the Award</b>	<b>Name of the Awardee</b>	<b>Awarding Agency</b>	<b>State/National/International</b>
1.	Domain Certification - Marketing	Dr. Gunjan Gumber	NPTEL SWAYAM	National
2.	Discipline Star	Dr. Gunjan Gumber	NPTEL SWAYAM	National
3.	Women achiever award	Dr. Renu Aggarwal	NGO	National
4	Topper 5% Elite award	Dr. Sapna Taneja	NPTEL SWAYAM	National

**23. AWARDS/PRIZES WON BY STUDENTS DURING THE YEAR ( 1.07.2021 TO 30.06.2022)**

Sr. No.	Title of the Award	Name of the Awardee	Awarding Agency	State/National/ International
1.	Boxing	Harsh	By YMCA And BHU University	State/National
2.	Best Model	Kunal Kumar	Iskcon Delhi	National
3.	National online quiz competition	Pawan kumar	Saraswati mahila mahavidyalya, Palwal	National
4.	1st prize in ADSTA-LA-VISTA, Commantra'22	Guranshish bhutra	P.G.D.A.V (Evening) Delhi University	National

**24. OUTSTANDING ACHIEVEMENTS 2021-2022:**

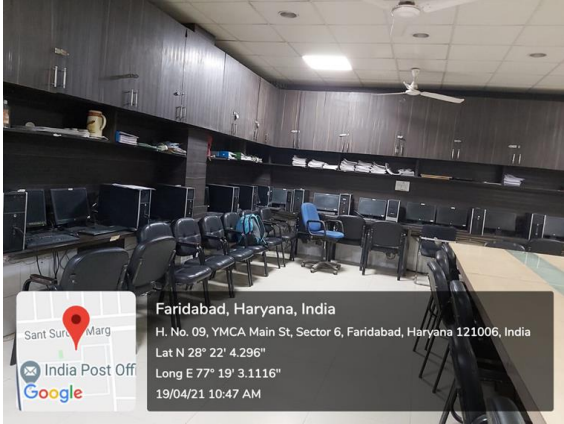
- **NBA ACCREDITATION 2021-2024**
- **NIRF RANKING IN THE BAND 76-100 (2021)**

**25. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES**

The department is well equipped with the following facilities: (1.07.2021 TO 30.06.2022)

Sr. No.	Facility	Existing
1.	Labs	01
2.	Workshops	Nil
3.	Lecture Halls	1
4.	Smart Classroom	1
5.	Conference Room	1
6.	Seminar Halls/Projector Rooms/Research Lab	1
7.	Internet Connection	Internet facility for staff and students
8.	LCD /LED	Nil
9.	ICT (Projector/OHP/Interactive Board)	2
10.	Any Other Facility	Staff provided with laptop/desktop

**The Department of Management Studies have developed a computer lab**

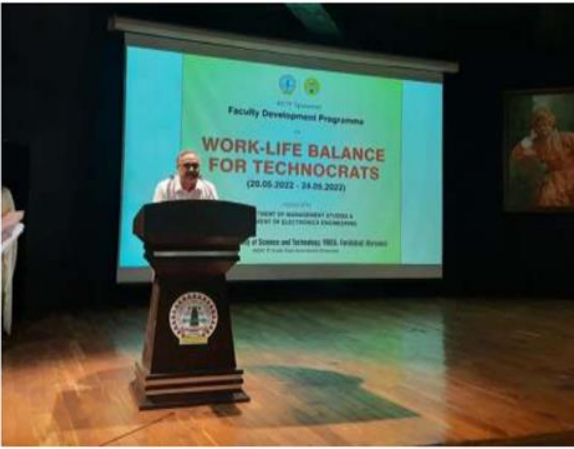
<p><b>1. Introduction of lab (50 words)</b></p> <p>The Department of Management Studies is equipped with a fully functional computer lab. This lab is utilized for providing practical exposure related to computer and research based subjects. This lab is also equipped with advanced data analysis softwares such as IBM SPSS and AMOS which significantly assists in sharpening their research and data analysis skills.</p>	<p style="text-align: center;">Photo of Lab</p> 
<p>2. Laboratory/Project Coordinator: Dr. Arti Gupta</p>	

**26. EXPENDITURE INCURRED ON ACADEMIC SUPPORT FACILITIES DURING THE YEAR**

Sr. No.	Name of item procured	Academic Utility	Cost
1	Total Expenditure (FY 2021-22)		25816000

**27. DETAIL OF PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE DEPARTMENT ( 1.07.2021 TO 30.06.2022)**





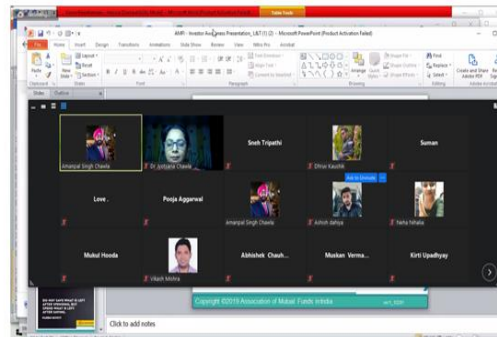
**FIVE-DAY FACULTY DEVELOPMENT PROGRAM ON "WORK-LIFE BALANCE FOR TECHNOCRATS" FROM 20TH MAY TO 24TH MAY 2022**



**OPPORTUNITIES AND SUPPORT SYSTEMS FOR NEW ENTREPRENEURS" ON 9TH AUGUST 2022.**



**A MOTIVATIONAL SESSION WAS ORGANIZED BY DEPT. OF MANAGEMENT STUDIES IN ASSOCIATION WITH TRAINING AND PLACEMENT OFFICE ON 02ND DECEMBER 2021**



**WEBINAR TITLED "FINACIAL LITERARCY THROUGH GAMIFICATION" ON 5 TH JULY 2021**

**28. BRIEF DETAILS ABOUT THE ACTIVITY:**

1. To encourage the concept of work-life balance, J.C. Bose University of Science and Technology, YMCA, Faridabad has organized a five-day Faculty Development Program on "Work-Life Balance for Technocrats" from 20th May to 24th May 2022. The program was organized by the Department of Management Studies in collaboration with the Department of Electronic Engineering. The Program was sponsored by AICTE. The program was inaugurated

by Vice-Chancellor, Prof. S.K. Tomar. The program started with the traditional lamp lighting. Registrar Dr. S.K. Garg, Dean of Faculty of Engineering and Technology Prof. M.L. Aggarwal, Dean of Management Studies Prof. Ashutosh Nigam, Chairperson of Management Studies Dr. Rachna Aggarwal and Chairperson of Electronics Engineering Prof. Pardeep Dimri were also present on this occasion. The FDP Coordinators of the program include Dr Dushyant Shukla. Dr Anushree Chauhan, Dr Sunil Jadav and Dr Arti Gupta. The participants included the faculty members of different departments of JC Bose University of Science and Technology, YMCA, Faridabad as well as the faculty members of other institutes and universities. Apart from this, PhD scholars has also participated in the program. There were 7 faculty members from outside the university from Faridabad region, 11 PhD scholars and 40 faculty members from different departments of JC Bose University participated

2. The Department of Management studies conducted a seminar titled, “Opportunities and support systems for new Entrepreneurs” on 9th August 2022. The focus of the program was to discuss about the different aspects related to support systems and its benefit for the new entrepreneurs. The main objective of this program was to make the attending participants aware of the various opportunities available for the budding entrepreneurs. Inauguration of the program took place in the auditorium of the University. The participants were addressed by Prof S. K. Tomar, hon’ble Vice Chancellor of the university, Dr Ashutosh Nigam (Dean, department of management studies) delivered the welcome address, Dr Rachna Agrawal (Chairperson, department of management studies), apprised the initiative of the Department for organizing such events. All the faculty members of the department were also present in the inaugural session. The program included students of MBA and BBA. The experts for the program were Mr. Rajiv Chawla, Chairman I Am SME of India and Jairaj Group of industries and Ms. Saloni Kaul, the Entrepreneur’s coach and founder CEO “It’s People”. The program had two sessions of 2 hours each. Mr Rajiv Chawla discussed about the connection between entrepreneurship and development of the community. People with vision can foresee future. He focused on guiding and mentoring students about the shortest path to golden world of entrepreneurship. Even a college or school dropout can become a successful entrepreneur like Facebook and Instagram founders. He urged students to create new products and services. Young generation is the biggest competitor for traditional businesses as they have access to new technology, internet and various skill development programs and they could adopt it with ease.

The greatest learning from the year 2020 was- “Man plans and God decides.” According to him, even if you have a laptop and internet connection, you could run a successful business. You don’t need to have your parents’ money because the government of India have backup plan for the support. The biggest asteroid that is hitting traditional businesses is Exponential Technology. He shared various examples that how exponential entrepreneurs are a threat to traditional businesses. Three stages i.e., Digitalization, Deception and Dematerialization are disrupting traditional businesses. There are various opportunities available in India like Health & Fitness Industry, Agriculture & Food Processing, Energy Efficient Products, Green Technology,

Products for Women and Products for Millennials etc. In last 10 years, more than 500 unicorn companies were set up in India. Dr Rajiv Sindwani & Dr Sapna Taneja coordinated the event with the support of members of the organizing team of the department.

3. A motivational session was organized by Dept. of Management Studies in association with training and placement office on 02nd December 2021 in Auditorium (Offline mode). The session started with a welcome address by Dr. Rashmi & Dr. Shruti followed by presentation of memento by Chairman (Department of Management Studies) Dr. Ashutosh Nigam. This session was delivered by Mr. Sanjiv Vashisht who had more than 20 years of experience in delivering motivational sessions in various institutions. The topic of the session was “What are they looking for?-Requirement of Corporate’s Today” is most relevant in today’s time. This session provided an opportunity to BBA, MBA & B.COM (Hons.) students to understand future work scenarios and the skill set that they need to acquire in order to get absorbed in the future job market. Apart from this self-analysis exercise were conducted with students on stage to build their confidence. Around 100 students made their presence for the session. The session concluded with a vote of thanks by Dr. Shruti.

4. The Department of Management Studies, J C Bose University of science and technology, YMCA Faridabad organized a webinar titled “Financial Literacy through Gamification” on 5 th July 2021 from 11am to 1 pm. The guest speaker for the webinar was Mr Aman Pal Singh Chawla, Founder, Advisor Zaroori hai. The session was enthusiastically attended by students of MBA and BBA. The webinar started with a welcome address by Dr Jyotsana Chawla, coordinator of the webinar. She proposed a welcome note and invited the speaker to discuss various aspects related to financial literacy. Firstly, Mr Aman Pal shared the relationship between savings, expenditure, investment and inflation. He shared with the students how the savings can be channelized in the most profitable ventures. He motivated students to develop the habit of saving so that it can be converted into investments. He guided students to start thinking about future expenses and asked them to start with small savings and continue with it throughout their life. He emphasized on the mantra, “Never depend on single income, instead make investment to create a second source of income for yourself”. He further narrated to the students that investment should be goal oriented. Start managing the finances of your family first then start looking for the options for increasing the investment. He highlighted that no saving is small, we must give importance to goal planning, investment should always be goal oriented. He also discussed the various options available to make investments and focused upon diverse investment of funds. At the end, the speaker conducted a quiz for the students. Ms. Gunjan Verma won the quiz competition and was offered a one-month internship by the expert. The expert very well replied to the queries of the students. The webinar was attended by a total of 100 students and faculty members of the department. The webinar was coordinated by Dr Jyotsana chawla and Dr Anushree Chauhan as faculty coordinators and Vinay Bisht, Dhruv kaushik and Sneh Tripathi as the students’ coordinators. The webinar ended with a vote of thanks by Dr Anushree Chauhan, coordinators of the webinar.

# DEPARTMENT OF BUSINESS STUDIES



**B.com (H) First Batch 2021-2024**



## DEPARTMENT OF BUSINESS STUDIES

### 1. INTRODUCTION

The Department of Business Studies is one of the faculties of J.C. Bose University of Science and Technology, YMCA formerly known as YMCA University of Science and Technology. The University is presently NAAC accredited 'A+' Grade Haryana State Government University and most of the University Teaching Departments (UTDs) are accredited by National Board of Accreditation. The Department of Business Studies came into existence in the year 2020 with three year regular B.com(H) program. The department follows international standard curricula which are developed in consultation with eminent academicians and industry practitioners. The program delivery is done by well qualified, competent, research-oriented and experienced faculty and experts from industry.

### 2. DEPARTMENT VISION

To build aspiring managers and entrepreneurs possessing good analytical skills and leadership qualities for effective decision making to contribute to the society and the nation.

### 3. DEPARTMENT MISSION

1. To provide a learning environment to young aspirants by introducing suitable pedagogy and innovative industry based curriculum.
2. To provide best research facilities for developing analytical capabilities.
3. To impart effective managerial skills for transformation of raw minds into effective managers and entrepreneurs.

Faculty and Department		
	Name	Tenure
Dean of Faculty	Prof. Vikram Singh	June 2020 – 10.04.2022
Dean of Faculty	Prof. Ashutosh Nigam	April 2022 till the date
Chairperson of the Department	Prof. Ashutosh Nigam	November 2018 - April 2022
Chairperson of the Department	Dr Manisha Goel	11.04.2022 to till date

### 4. DEPARTMENT HIGHLIGHTS

Courses Offered	Existing	Newly added
UG Course	B.com(H)	

Sr. No.	Course Details	Intake
1.	B.com(H)	66
2.		

Student Enrollment		
	Male	Female
B.com(H)	26	40





## 5. FACULTY DETAILS

Sr. No.	Professor	Associate Professor	Assistant Professor	Adjunct/Contraual/ Visiting Faculty	Total
Female	0	0	0	2	2
Total	0	0	0	2	2

## 6. FACULTY PROFILE

Sr. No.	Name & Designation	Qualification & Specialization	Total Experience	Publication			Book/ Chapter
				SCI/SC IE/ SSCI	SCO PUS	UGC Approved Care/Referred	
1.	Dr. Pallavi Mahajan	M. com, NET M.Phil, , PhD	6 Years			4	
2.	Ms. Radhika Sharma	M. com, NET	1 year			5	

## 7. DETAILS OF NEWLY JOINED FACULTY MEMBERS DURING THE YEAR

Sr. No.	Name of Faculty Member	Designation & Qualification	Date of Joining
1.	Dr. Pallavi Mahajan	Assistant Professor, Ph.D.	17 <sup>th</sup> Sep 2021
2.	Ms Radhika Sharma	Assistant Professor	8 <sup>th</sup> Nov 2021

## 8. WORKSHOP/STC/INVITED TALKS/WEBINAR/OTHER ACTIVITIES CONDUCTED

(01/07/2021 - 30/06/2022)

Sr. No.	Name of Activity	Title	In collaboration with (if any)	Dates	Name of Coordinator
1.	Management Development	Business Analytics Using R		23-24 <sup>th</sup> April 2022	Dr Parveen Kumar, Dr Rashmi, Dr Shruti, Ms Radhika



	<b>Program</b>				
2.	<b>Expert Lecture</b>	Entrepreneurial Opportunities in Contemporary Business Environment		4 <sup>th</sup> May 2022	Ms Radhika

**9. WHETHER MENTOR/MENTEE MEETING HELD REGULARLY: YES**

**10. AWARDS/PRIZES WON BY STUDENTS DURING THE YEAR**

Sr. No.	Title of the Award	Name of the Awardee	Awarding Agency	State/National/International
1.	Nataraja Bhangra	Khusboo	UIET Kurukshetra University	State Level
2.	Dean Student Welfare Office	Neha	YMCA	University level

**11. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES**

The department is well equipped with the following facilities:

Sr. No.	Facility	Existing	Added*
1.	Labs	01	
2.	Workshops	Nil	
3.	Lecture Halls	5	
4.	Smart Classroom	Nil	
5.	Conference Room	01	
6.	Seminar Halls/Projector Rooms/Research Lab	Nil	
7.	Internet Connection	Internet facility for staff and students	
8.	LCD /LED	Nil	
9.	ICT (Projector/OHP/Interactive Board)	Nil	
10.	Any Other Facility	Staff provided with desktop	



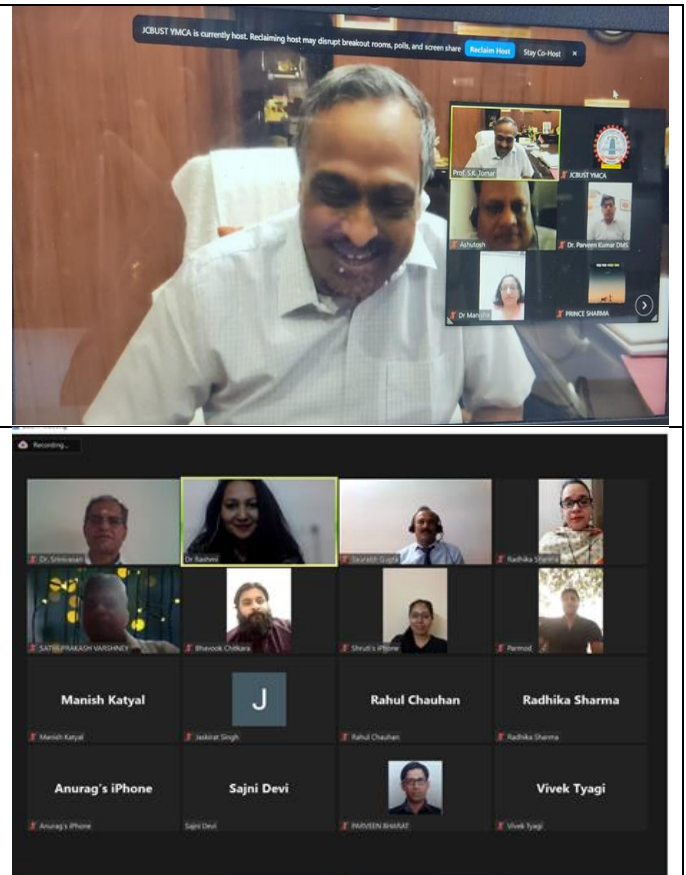
<p><b>1. Introduction of lab (50 words)</b></p> <p>The Department of Business Studies is equipped with a fully functional computer lab. This lab is utilized for providing practical exposure related to computer and research based subjects.</p>	
<p><b>Lab</b></p>	
<p>2. Laboratory/Project Coordinator: Dr. Pallavi Mahajan</p>	
<p>3. Total Cost of research equipments: Rs. 3.39.441</p>	
<p>4. Details of equipments: IBM SPSS Software</p>	
<p>5. Benefit to students/researchers:</p>	





12. DETAIL OF PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE DEPARTMENT (01/07/2020 TO 30/06/2021)

MDP on Business Analytics Using R 23-24<sup>th</sup> April 2022



Expert Lecture by Ms Radhika on “Entrepreneurial Opportunities in Contemporary Business Environment” on 4<sup>th</sup> May, 2022.





### 13. BRIEF DETAILS ABOUT THE ACTIVITY:

#### Management Development Program on Business Analytics Using R

The Department of Business Studies for the first time conducted two days Management Development program on “**Business Analytics Using R**” on **23<sup>rd</sup> and 24<sup>th</sup> April 2022**. As many as thirty-two mid-level professionals from academia and industry attended the program. More than 20 participants from industries such as Carrier Air conditioning Pvt Ltd, Huges Communication Pvt Ltd, EXL Service, Titan Industries, HCL Technologies, Indian Oil Corp Ltd and Steel Authority of India Limited designated at the level of DGM, AGM, Manager, Assistant Manager were benefited from the program. During two days of MDP, the sessions were delivered by eminent speakers Dr Sourabh Gupta & Dr Srinivan. Dr. Saurabh, Ph.D. from University of Southern Mississippi, USA, with 18 years of experience in business analytics elaborated about business analytics, skill sets, technology, process, and techniques for business data analysis to the participants. Dr. R. Srinivasan, Professor at KIET School of Management, with more than 35 years of rich academic and industry experience provided hands-on experience of data analysis using software JMOVI and R with simulation methods on real-life business case study and dataset. It built the foundation for advancement in the area of business analytics. Furthermore, data visualization, sentiment analysis and predictive modeling was performed using R software using different case studies.



## **FACULTIES OF SCIENCE**



# DEPARTMENT OF PHYSICS





## DEPARTMENT OF PHYSICS

### 1. INTRODUCTION

The Department of Physics was initially a part of the Department of Humanities and Sciences and became a full-fledged department in 2018. The department of Physics runs the undergraduate program (B.Sc. Honors), post-graduate program (M.Sc.) and doctoral degree program for the students who satisfy the eligibility conditions laid by the university and UGC from time to time. There are thirteen regular faculty members in the Department. Faculty members are enriched with quality teaching experience backed by excellent research in different fields. The Department is nationally known for its contribution in various research domains like material science, nanotechnology, semiconductor devices and energy storage devices.

### 2. DEPARTMENT VISION

A department that can effectively harness its multidisciplinary strengths to create an academically stimulating atmosphere; evolving into a well-integrated system that synergizes the efforts of its competent faculty towards imparting intellectual confidence that aids comprehension and complements the spirit of inquiry.

### 3. DEPARTMENT MISSION

To create well-rounded individuals ready to comprehend scientific and technical challenges offered in the area of specialization.

To counsel the students so that the roadmap becomes clearer to them and they have the zest to turn the blueprint of their careers into a material reality.

To encourage critical thinking and develop their research acumen by aiding the nascent spirit for scientific exploration.

Help them take economic, social, legal and political considerations when visualizing the role of technology in improving quality of life.

To infuse intellectual audacity that makes them take bold initiatives to venture into alternative methods and modes to achieve technological breakthroughs.

FACULTY AND DEPARTMENT		
	Name	Tenure
<b>Dean of Faculty:</b>	Prof. Ashutosh Dixit	June 2020 to April 2022
<b>Dean of Faculty:</b>	Prof. Neetu Gupta	11.04.2022 to till date
<b>Chairperson of the Departments:</b>	Dr. Anuradha Sharma	November 2019 onwards

### 4. DEPARTMENT HIGHLIGHTS

Courses offered	Existing	Newly added
<b>UG Course:</b>	B.Sc.(H) Physics	
<b>PG Course:</b>	M. Sc. Physics	
<b>PhD</b>	Physics	



Sr. No.	Course Details	Intake
1.	B.Sc.(H) Physics	67 (60 standard Intake + 06 HOGC EWS + 01 Single Girl Child)
2.	M. Sc. Physics	67 (60 standard Intake + 06 HOGC EWS + 01 Single Girl Child)
3.	PhD (Physics)	As per availability of seats

Student Enrollment		
	MALE	FEMALE
<b>Total</b>	38	110
<b>UG Course</b>	20	46
<b>PG Course</b>	17	50
<b>PhD</b>	01	14

### 5. FACULTY DETAILS

	Professor	Associate Professor	Assistant Professor	Adjunct/Contraual/ Visiting Faculty	Total
<b>Male</b>		01	07 (01 on contract)	NA	08
<b>Female</b>		03	03 (01 on contract)	NA	06
<b>Total</b>		04	10	NA	14

### 6. FACULTY PROFILE

Sr. No.	Name & Designation	Qualification & Specialization	Total Experience	Publication			Book/Chapter
				SCI/SCIE	SCOPUS	UGC Approved Care/Referred	
1.	Dr. Anuradha Sharma	Ph.D. Material Science	17	07	08	06	
2.	Dr. Sonia Bansal	PhD, Nanotechnology		06	09	05	2



3.	Dr. Maneesha Garg	PhD, Radiation physics, Material Science	16				
4.	Dr. Anurag Gaur	PhD, Material Science	14	125	30		06
5.	Dr. Anuj Kumar	PhD, Microelectronics/VLSI/Photovoltaic	11	21			
6.	Dr. Manikant Yadav	PhD, Plasma Physics	14.5	02	10	05	04
7.	Dr. Parveen Kumar	PhD, Material Science	10.5	20	06		



8.	Dr. Arun Kumar	PhD, Computational Physics	7.5	14	05	05	01
9.	Dr. Ompal Singh	PhD, Material Science	4.33	11	06		
10.	Dr. Parmod Kumar	PhD, Condensed Matter Physics	08	51	13		07
11.	Dr. Yogita Batra	PhD, Condensed Matter Physics	13	21	01		
12.	Dr. Rashi Gupta	PhD, Materials Science	1.5	16	02		
13.	Mr. Aman Joshi	M.Sc., NET	6.5	13	11		02
14.	Dr. Kaushal Kumar (On Contract)	PhD, Materials Science	5.5	24			01

## 7. NON-TEACHING STAFF

Sr. No.	Name and Designation	Qualification	Date of Joining
1.	Mrs. Savita, Lab Technician	M. Sc. (Physics)	08.09.2014
2.	Mrs. Suman, Lab Assistant	M. Tech (Electronics)	06.08.2019
3.	Mr. Jawahar Lal, Lab Assistant	Diploma (Mech. Engineering)	08.08.2019
4.	Mr. Vinod Kumar, Lab Assistant	M. Sc.(Physics)	09.08.2021





### 8. DETAILS OF NEWLY JOINED FACULTY MEMBERS DURING THE YEAR

Sr. No.	Facility Name	Designation & Qualification	Date of Joining
1.	NA	NA	NA

### 9. FACULTY MEMBER COMPLETED PHD DURING THE YEAR

Sr. No.	Facility Name	Discipline	Topic	Awarding Year	Institution
1.	NA	NA	NA	NA	NA

### 10. FACULTY MEMBERS SPONSORED FOR STP/COURSES/WORKSHOPS OR CONFERENCES

Sr. No.	Facility Name	Course/Workshop/Conferences	Sponsored by	Date
1.	NA	NA	NA	NA

### 11. DEPARTMENTAL PUBLICATIONS & FDP/STC/WORKSHOP(01/07/2022 - 30/06/2022)

Sr. No.	Particular	Count
1.	Publications in International Journals	26
2.	Publications in National Journals	00
3.	Publications in International Conferences	00
4.	Publications in National conferences	12
5.	Workshop	00
6.	STC/FDP	14

### 12. PAPER PUBLISHED IN INTERNATIONAL JOURNALS (01/07/2021- 30/06/2022)

Sr. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
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1.	Dr. Maneesha Garg	<p>1. Bhupender Singh, Krishan Kant, Maneesha Garg. Distribution of Radon and uranium levels in groundwater of district Palwal of Southern Haryana, India. Radiation Protection Dosimetry, pp. 1- 7, 2021, Doi:10.1093/rpd/ncab158.</p> <p>2. Bhupender Singh, Krishan Kant, Maneesha Garg. Monitoring of natural radionuclides by alpha scintillometry and gamma spectrometry techniques in soil of district Palwal, Southern Haryana, India, International Journal of Environmental Analytical Chemistry, 2021, doi:10.1080/03067319.20212016726</p> <p>3. Bhupender Singh, Krishan Kant, Maneesha Garg. Radiological assessment of <sup>222</sup>Rn, <sup>220</sup>Rn, EERC, and EETC in residential dwellings of district Palwal, Southern Haryana, India Journal of Radioanalytical and Nuclear Chemistry, 2022, Doi:10.1007/s10967-021-08163-3</p>
2.	Dr. Parveen Kumar	<p>1. Anita Sharma, Ishpal Rawal, Aarti Rajpal, Anita Khokhar, Vijay Kumar and <b>Parveen K. Goyal</b>, “Highly sensitive and selective room temperature ammonia sensor based on polyaniline thin film: In-situ dip-coating polymerization”, <b>Journal of Materials Science: Materials in Electronics</b>, <b>33</b>, <b>14071-14085</b>, <b>2022</b>. Springer, ISSN: 1573-482X. <a href="http://doi.org/10.1007/s10854-022-08338-y">http://doi.org/10.1007/s10854-022-08338-y</a></p> <p>2. Anita Sharma, <b>Parveen K. Goyal</b>, Ishpal Rawal, Aarti Rajpal, Anita Khokhar, Vijay Kumar and Sajjan Dahiya, “Structural characteristics and opto-electrical properties of in-situ synthesized polyaniline films” Optical Materials, 131, 112712, 2022, ISSN: 0925-3467. <a href="https://doi.org/10.1016/j.optmat.2022.112712">https://doi.org/10.1016/j.optmat.2022.112712</a></p> <p>3. Amit Kumar, Sapna Kumari, V. Kumar, Prashant Kumar, Vikas N. Thakur, Ashok Kumar, <b>P. K. Goyal</b>, Anil Arya &amp; A. L. Sharma, “Synthesis, phase confirmation and electrical properties of (1 – x) KNNS–xBNZSH lead-free ceramics”, <b>Journal of Materials Science: Materials in Electronics</b>, <b>33</b>, <b>6240–6252</b> (2022). Springer, ISSN: 1573-482X. <a href="https://doi.org/10.1007/s10854-022-07798-6">https://doi.org/10.1007/s10854-022-07798-6</a></p> <p>4. Sunil Agrohiya, Vipin Kumar, Ishpal Rawal, Sajjan Dahiya, <b>Parveen K. Goyal</b>, Vinod Kumar and Rajesh Punia, “Fabrication of n-TiO<sub>2</sub>/p-Si Photo-Diodes for Self-Powered Fast Ultraviolet Photodetectors”, <b>Silicon</b>, <b>2022</b>, Springer, ISSN: 1876-9918. <a href="https://doi.org/10.1007/s12633-022-01913-2">https://doi.org/10.1007/s12633-022-01913-2</a></p> <p>5. Sapna Kumari, Amit Kumar, Aman Kumar, V. Kumar, Vikas N. Thakur, Ashok Kumar, <b>P. K. Goyal</b>, Anurag Gaur, Anil Arya, A. L. Sharma, “Enhanced Curie temperature and superior temperature stability by site selected doping in BCZT based lead-free ceramics” <b>Ceramics International</b> 48 (10), 2022, 13780-13793. (ISSN: 0272-8842). <a href="https://doi.org/10.1016/j.ceramint.2022.01.260">https://doi.org/10.1016/j.ceramint.2022.01.260</a></p> <p>6. Sapna Kumari, Amit Kumar, V. Kumar, S. K. Dubey, <b>Parveen. K. Goyal</b>, Suresh Kumar, A. L. Sharma &amp; Anil Arya, “Structural, dielectric and ferroelectric properties of Cu<sup>2+</sup>- and Cu<sup>2+</sup>/Bi<sup>3+</sup>-doped BCZT lead-free ceramics: a comparative study”, Journal of Materials Science: Materials in Electronics, 32,16900–16915 (2021). Springer, ISSN: 1573-482X. <a href="https://doi.org/10.1007/s10854-021-06252-3">https://doi.org/10.1007/s10854-021-06252-3</a></p> <p>7. Preeti Chhokkar, V.Kumar, <b>Parveen K. Goyal</b>, Shyam Kumar, A.K. Tomar, Anurag Gaur, Anil Arya, “Role of energy loss-range profile of heavy ions in tailoring the optical properties of polycarbonate”, Optical Materials, 121, 111617, 2021. ISSN: 0925-3467. <a href="https://doi.org/10.1016/j.optmat.2021.111617">https://doi.org/10.1016/j.optmat.2021.111617</a></p> <p>8. Preeti Chhokkar, V. Kumar, <b>Parveen K. Goyal</b>, Shyam Kumar, A.K. Tomar, Anurag Gaur, Anil Arya, “Argon ion implanted CR-39 polymer: Optical and structural characterization”, Optical Materials, 115, 111046, 2021, ISSN: 0925-3467. <a href="https://doi.org/10.1016/j.optmat.2021.111046">https://doi.org/10.1016/j.optmat.2021.111046</a></p>



3.	Dr. Ompal Singh	1. Crystal structure, magnetic and dielectric properties of Er-doped BiFeO <sub>3</sub> ceramics, S Rani, S Sanghi, A Agarwal, R Kumar, O Singh, Applied Physics A, 128 (7), 576
4.	Dr. Parmod Kumar	<ol style="list-style-type: none"> <li>1. Phase Transformation in Fe<sub>2</sub>O<sub>3</sub> Nanoparticles: Electrical Properties with Local Electronic Structure, Suman, V. Sharma, Seema Devi, J. P. Singh, K. H. Chae, A. Kumar and K. Asokan, <b>Parmod Kumar</b>, Physica B: Condensed Matter, 620 (2021) 413275 Impact Factor-2.4.</li> <li>2. An efficient and unique method for the growth of spindle shaped Mg-doped cerium oxide composed of nanorods for photodegradation of p-Nitrophenol, Surjeet Chahal, Lakshita Phor, Saurabh Singh, Amanvir Singh, Jaideep Malik, Pratibha Goel, Ashok Kumar, Ankita, <b>Parmod Kumar</b>, Ceramics International, 48 (2022) 28961-28968, Impact Factor-5.532.</li> <li>3. Sequestration of Heavy Metals from contaminated water using Fe<sub>3</sub>O<sub>4</sub>@carbon nanocomposites, N. Kataria, V. K. Garg, <b>Parmod Kumar</b>, Journal of Hazardous Materials Advances, 6 (2022) 100066.</li> <li>4. Photocatalytic Activity of <math>\alpha</math>-Fe<sub>2</sub>O<sub>3</sub>@CeO<sub>2</sub> and CeO<sub>2</sub>@<math>\alpha</math>-Fe<sub>2</sub>O<sub>3</sub> core-shell nanospheres for degradation of Rose Bengal dye, Suman, S. Singh, Ankita, A. Kumar, N. Kataria, S. Kumar, <b>Parmod Kumar</b>, Journal of Environmental Chemical Engineering, 9 (2021) 106266, Impact Factor-5.909.</li> <li>5. Suman, S. Chahal, A. Kumar, Kumar, <b>Parmod Kumar</b>, Influence of Ce<sup>3+</sup> Ion Doping on Structural and Magnetic Properties of Mn-Co Ferrite Nanoparticles, AIP Conference Proceedings, 2352 (2021) 040029.</li> </ol>
5.	Dr. Yogita Batra	1. “Exploring the Role of Graphene Oxide as a Co-Catalyst in the CZTS Photocathodes for Improved Photoelectrochemical Properties” 2022, ACS Applied Energy Materials, Manoj Vishwakarma, Yogita Batra, Joke Hadermann, Aditya Singh, Abhishek Ghosh, and B. R. Mehta, 5, 6, 7538–7549. (Impact factor: 6.379)
6.	Dr. Kaushal Kumar	<ol style="list-style-type: none"> <li>1. Ravi Kant, T. Sharma, S. Bhardwaj, Kaushal Kumar, Structural, electrical and optical properties of MgO-reduced graphene oxide nanocomposite for optoelectronic applications, Current Applied Physics, 36, 76-82 (2022), Elsevier, Impact factor (2.85).</li> <li>2. Kaushal Kumar, M.S. Goyat, A. Solanki, A. Kumar, Ravi Kant and P.K. Ghosh “Improved mechanical performance and unique toughening mechanisms of UDM processed epoxy-SiO<sub>2</sub> nanocomposites”. Polymer Composites, 42, 6000-6009 (2021), Weley, Impact Factor (3.53)</li> <li>3. M. S. Goyat, Amrita Hooda, T.K. Gupta, Kaushal Kumar, S. Halder, P.K. Ghosh and B.S. Dehiya “Role of non-functionalized oxide nanoparticles on mechanical properties and toughening mechanisms of epoxy nanocomposites”. Ceramics International, 47, 22316-22344 (2021), Elsevier, Impact Factor (5.53).</li> </ol>



7	Dr. Anuj Kumar	1. Sanjay Kumar Swami, Neha Chaturvedi, <b>Anuj Kumar</b> , Vinod Kumar, Ashish Garg, Viresh Dutta “Spray deposited gallium doped zinc oxide (GZO) thin film as the electron transport layer in inverted organic solar cells” Solar Energy 231 (2022) 458–463,
8	Aman Joshi	1. <b>Aman Joshi</b> and Prakash Chand, Role of Microwave Irradiation Power Rates on Electrochemical Performance of BiPO <sub>4</sub> Nanostructures as Electrode Material for Energy Storage Applications, <b>Materials Chemistry and Physics</b> 275 (2022) 125279. <a href="http://dx.doi.org/10.1016/j.matchemphys.2021.125279">http://dx.doi.org/10.1016/j.matchemphys.2021.125279</a> 2. <b>Aman Joshi</b> and Prakash Chand, Influence of pH on Optical and Electrochemical performance of BiPO <sub>4</sub> Electrode Material for Energy Storage Applications, <b>Physica E: Low-dimensional Systems and Nanostructures</b> 137 (2022) 115020 <a href="https://doi.org/10.1016/j.physe.2021.115020">https://doi.org/10.1016/j.physe.2021.115020</a> . 3. Prakash Chand, <b>Aman Joshi</b> , Sunaina, Sohan Lal, Sol-Gel Assisted Morphology and Phase Dependent Electrochemical Performance of BiPO <sub>4</sub> Nanostructures for Energy Storage Applications, <b>Journal of Alloys and Compounds</b> 899 (2022) 163315. <a href="http://dx.doi.org/10.1016/j.jallcom.2021.163315">http://dx.doi.org/10.1016/j.jallcom.2021.163315</a> 4. <b>Aman Joshi</b> , Sunaina, Prakash Chand, Electrochemical Behaviour of Temperature-based Bismuth Phosphate Nanostructures for Energy Storage Application, <b>Chemical Physics Letters</b> 804 (2022) 139898 <a href="https://doi.org/10.1016/j.cplett.2022.139898">https://doi.org/10.1016/j.cplett.2022.139898</a>

### 13. PAPER PUBLISHED IN NATIONAL JOURNALS(01/07/2021 - 30/06/2022)

Sr. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
1.		NIL

### 14. PAPER PUBLISHED IN NATIONAL CONFERENCES(01/07/2021- 30/06/2022)

Sr. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1	Aman Joshi	1. <b>Aman Joshi</b> , Prakash Chand, Temperature Effect on Optical and Electrochemical Performance of Microwave Assisted Bismuth Phosphate Electrode Material for Energy Storage Devices, International Conference on Recent Advances in Functional Materials ( <b>RAFM 2022</b> ), Atma Ram Sanatan Dharma College (University of Delhi), <b>March 14-16, 2022</b> (Oral Presentation).


**15. PAPER PUBLISHED IN INTERNATIONAL CONFERENCES(01/07/2021- 30/06/2022)**

Sr. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1.	Dr. Anuradha Sharma	Krishna Tewatia, Anuradha Sharma, Arun Kumar, Synthesis of ZnO/rGO and green approach for its reduction by Ascorbic acid. International Conference on Frontiers of Science and Technology ICFST- 2021, 13th-14th August, 2021.
2.	Dr. Anuradha Sharma	Priyanka Tanwar, Anuradha Sharma; Design and Simulation of Two Different geometry Photonic Crystal Fibers (PCFs) and Comparison of their Optical parameters” International Conference on Frontiers of Science and Technology ICFST- 2021, 13th-14th August, 2021.

**16. WORKSHOP/STC/INVITED TALKS/WEBINAR/OTHER ACTIVITIES CONDUCTED (01/07/2021 - 30/06/2022)**

Sr. No.	Name of Activity	Title	In collaboration with (if any)	Dates	Name of Coordinator
1.	International Conference	International Conference on Advanced Materials for Societal Applications (ICAMSA-2021)	NA	26-28 october 2021	

**17. STC/FDP/WORKSHOP/ SYMPOSIA/ WORKSHOP ATTENDED BY FACULTY MEMBERS(01/07/2021 TO 30/06/2022)**

Sr.No.	Name of Faculty	Name of STC/ FDP	Organized by	Date	
				From	To
1.	Dr. Parmod Kumar	1. Faculty Development Program (Online) on “Nano Materials” in an Online ATAL Faculty Development Program from on Novel Materials	M IST, Modinagar, Ghaziabad.	August 2021	August 2021



		2. Faculty Development Program (Online) Cardinal Role of Quality Education in Developing Self Reliant India.	Aggarwal College Ballabgarh.	07 July 2021	14 July 2021
2	Dr. Parveen Kumar	1. Online Two - Week <b>Refresher Course In PHYSICS</b>	Teaching Learning Centre, Ramanujan College, University of Delhi	27-10-2021	10-11-2021
		2. One week Online Faculty Development Programme on <b>“Programming in Python”</b>	Kirori Mal College, University of Delhi	06-12-2021	10-12-2021
		3. Participated in one week FDP on <b>“Work-Life Balance for Technocrats”</b>	Department of Management Studies and Department of Electronics Engineering, JC Bose UST YMCA, Faridabad	20-05-2022	24-05-2022
3	Dr. Ompal Singh	1. Two week refresher course in Physics	TLC, Ramanujan College, University of Delhi in collaboration with Department of Physics, Harish Chandra Post Graduate College, Varanasi, Uttar Pradesh and Department of Physics, Hemvati Nandan Bahuguna Garhwal University, Srinagar, Garhwal Uttarakhand	27.10.2021	10.11.2021
		2 week refresher course on Remote sensing and GIS	UGC-HRDC Himachal Pradesh University, Shimla	06.12.2021	18.12.2021



		3. International Faculty Development Program on Foremost Frontiers of Material Science	Department of Physics, Sathyabama Institute of Science and Technology, Chennai	12.09.2022	20.09.2022
4	Dr. Yogita	1. online Faculty Induction Program	Ramanujan College, University of Delhi	21 March 2022	19 April 2022
		2. Professional Development Program	C. Bose University of Science & Technology YMCA, Faridabad	28-06-2021	02-07-2021
5	Dr. Kaushal Kumar	1. Professional Development Program	J.C. Bose University of Science & Technology YMCA, Faridabad	28-06-2021	02-07-2021
		2. Cardinal Role of Quality Education in Developing Self Reliant India'	ternal Quality Assured Cell, Aggarwal College Ballabgarh.	07-07-2021	14-07-21
6	Aman Joshi	1. online Faculty Induction Programme	Ramanujan College, University of Delhi	21-03-2022	19-04-2022
		2. Professional Development Program	C. Bose University of Science & Technology YMCA, Faridabad	28-06-2021	02-07-2021
		3. one week Faculty Training Program on 'Recent Trends in Physics of Engineering Materials'	Department of Physics, DCRUST, Murthal, Haryana	07-06-2021	12-06-2021



**18. INVITED TALKS/LECTURES DELIVERED BY FACULTY MEMBERS (01/07/2021 - 30/06/2022)**

Sr. No.	Name of Faculty	Topic	Venue	Date
1.	Dr. Maneesha garg	Effect of ZnO nanoparticles on thermally stimulated depolarization current behaviour of polystyrene film	32nd world nano conference	25th October 2021
2	Dr. Maneesha garg	Ethical Research	DN College, Faridabad	23rd October 2021
3	Dr. Parmod Kumar	Magnetism in Non-magnetic Oxides	Department of Chemistry, Deenbandhu Chhotu Ram University of Science and Technology, Murthal.	16 <sup>th</sup> – 17 <sup>th</sup> December 2021
4	Dr. Parmod Kumar	Defects Induced Magnetism in Zinc Oxide for Spintronics Applications	Department of Chemistry, J C Bose University of Science and Technology, YMCA, Faridabad.	14 <sup>th</sup> – 16 <sup>th</sup> July 2021
5	Dr. Parveen Kumar	Key-note Address at International Conference on “Recent Advances in Basic and Applied Sciences” ICRAVAS-2021 on the topic “ <b>Gas Sensors: Mechanism of sensing, their Designing and testing</b> ”	Faculty of Sciences, Baba Mastnath University, Rohtak	27-08-2021 to 28-08-2021
6	Dr. Parveen Kumar	Resource Person/ Invited-Talk for One session on the topic “ <b>Mechanism of Sensing, Designing and Testing on Functional Materials</b> ” in UGC sponsored Two-week Online (Live Mode) Interdisciplinary Refresher Course on “Advanced	UGC-HRDC, GJUS&T, Hisar , Course duration: 07-Feb-2022 to	Talk duration: 02:00 PM to 03:30 PM on 15-Feb-2022





		Instrumentation Techniques”	19-Feb-2022	
7	Dr. Anuj kumar	‘Photovoltaic Solar Cell Technology’	School of Engineering and Sciences GD Goenka University, Gurugram	12th May, 2022

**19. FACULTY SERVING IN STATE/NATIONAL/INTERNATIONAL COMMITTEES, EDITORIAL BOARDS ETC.(01/07/2021 - 30/06/2022)**

Sr. No.	Name of Faculty	Details
1.	Dr. Maneesha Garg	Reviewer of AICTE second phase of student learning assessment projects(SLA)
2.	Dr. Maneesha Garg	Member of Board of Governance of HSTES.
3.	Dr. Parmod Kumar	Editor of Defect-Induced Magnetism in Oxide Semiconductors book to be published by ELSEVIER.
4.	Dr. Parmod Kumar	Editor of Special Issue in Environmental Science and Pollution Research published by SPRINGER (I.F. 5.190)
5.	Dr. Anuj Kumar	Board member in National Test Agency New delhi



**20. DETAILS OF STUDENTS QUALIFYING COMPETITIVE EXAMS (GATE/CAT/ OTHER EXAM ETC.)(01/07/2021 TO 30/06/2022)**

Sr. No.	Name of Exam	Name of Student	Exam Roll Number	Ranking/Score
1.	GATE	Sheetal Sharma	PH22S53004312	NA
2.	CAT	Dharmesh Tomar	21179051	NA
3.	JAM	Ankit Dubey	PH301F150	NA
4.	JAM	Gourav	PH301F181	NA
5.	JAM	Gomtesh	PH301F171	NA
6.	JAM	Mohit Patel	PH501F089	NA
7.	JAM	Pushpraj Bhardwaj	PH301F186	NA
8.	JAM	Rahul Singh Negi	PH301F174	NA
9.	JAM	Sahil Kumar	PH301F196	NA
10.	JAM	Deepak Kumar	PH301F176	NA

**21. SPONSORED R&D PROJECTS IN-HAND**

Sr. No.	Name of Principal Investigator	Title of Research Project	Funding Agency	Duration	Year of Allotment	Amount (Rs.)
1.	Dr. Parmod Kumar	Waste Water Treatment and Defects-induced Magnetism in Wide Band Gap Semiconductor Nanostructures	UGC	2 Years	2021	10 Lakhs
2.	Dr. Yogita	Characterization in CZTS thin films and their effects on thermoelectric	UGC	2 Years	2021	10 Lakhs



		properties				
3.	Dr. Yogita	Ion irradiation induced structural transition in GST alloys	IUAC	3 years	2022	10.25 lakhs

## 22. WHETHER MENTOR/MENTEE MEETING HELD REGULARLY

Yes, all the faculty members hold mentor mentee meetings at regular intervals and try to mitigate the problems of students.

## 23. PATENT PUBLISHED /AWARDED DURING THE YEAR

S.r No.	Name of faculty member	Title of Patent	Date of Award/ Publication
1.	Aman Joshi	Deep Learning Based Smart Diagnosis of Brain Tumor Using MRI Images	13-08-2021
2.	Aman Joshi	Artificial Neural Networks Based Optimal Control of Smart Grids	22-09-2021
3.	Aman Joshi	Investigation of Human Brain visual processing with deep learning helps EEG signals predict different stages	03-11-2021
4.	Aman Joshi	Acoustic Concentration Decoding from Electroencephalography Based on Long Squat Term Recollection Network	10-11-2021
5.	Aman Joshi	Machine Learning and IOT Based Innovative Dwarf Robots for Smart Environmental Management	18-11-2021

## 24. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES

The department is well equipped with the following facilities:

Sr. No.	Facility	Existing	Added*
1.	Labs	05	NIL
2.	Workshops	NIL	NIL



3.	Lecture Halls	01	NIL
4.	Smart Classroom	01	NIL
5.	Conference Room	NIL	NIL
6.	Seminar Halls/Projector Rooms/Research Lab	NIL	NIL
7.	Internet Connection	NIL	NIL
8.	LCD /LED	NIL	NIL
9.	ICT (Projector/OHP/Interactive Board)	01	NIL
10.	Any Other Facility	NIL	NIL
11.	-	NIL	NIL

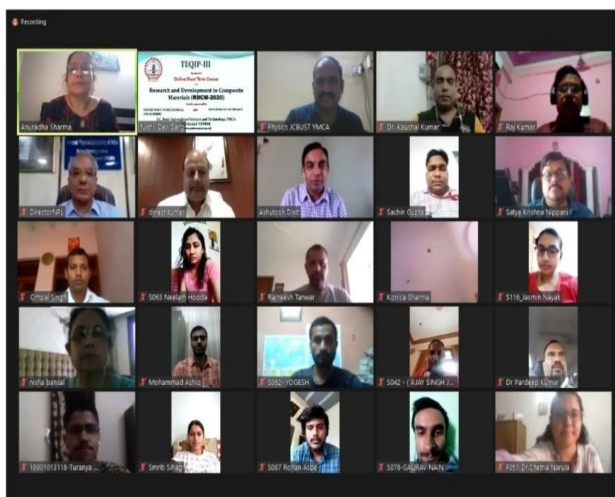
**The Department has established the material Science research lab**

<p>1. Introduction of lab (50 words)</p> <p>Material Science is a well established field of research in Physics. The research lab established in the Department is equipped with equipments for synthesis of nanomaterials, polymers etc. The characterization of materials viz electrical, thermal and dielectric studies of materials in the form thin films, pellets etc can be performed in this lab.</p>	
2. Laboratory/Project Coordinator: Dr. Maneesha Garg	
3. Total Cost of research equipments: Around 18 lakhs	
<p>4. Research Equipments</p> <ul style="list-style-type: none"> <li>• Details of equipments: Keithley electrometer</li> <li>• Keithley nanovoltmeter</li> <li>• Spin coater</li> <li>• Muffle Furnace</li> <li>• Magnetic Stirrer</li> <li>• Scientific LCZ meter</li> <li>• Keithley High voltage unit (upto 1500V)</li> <li>• Pellet press</li> <li>• Aczel precision balance</li> <li>• Two probe setup</li> <li>• Hot air oven</li> <li>• Magnetic stirrer (3)</li> <li>• Thermal coating unit</li> </ul>	
5. Benefit to students/researchers: Department of physics has 15 full time research scholars and are benefitted by the lab. Moreover this is beneficial for the Post graduate students during their project work.	



**25. DETAIL OF PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE DEPARTMENT (01/07/2021 TO 30/06/2022)**

International Conference on Advanced Materials for Societal Applications (ICAMSA-2021) 26-28 October 2021



Audience gathering in International Conference on Advanced Materials for Societal Applications (ICAMSA-2021) 26-28 october 2021

**35. REPORT ON SEMINAR/EXPERT LECTURE SERIES**

S. no.	Date and Time	Topic	Name of the Resource person	No. of Beneficiaries	Summary
1.	March 25, 2022 3:00-4:00 pm	Renewable Energy Storage Devices	Dr. Anurag Gaur, JCBUST, YMCA	60	The talk covered the fundamental of renewable energy and the supercapacitors with the main focus on the classification and charge storage mechanisms. Then, important performance parameters and their interrelation were presented followed by crucial characterization techniques to examine supercapacitors performance. Further, the Process of hybrid supercapacitor device fabrication was also discussed.

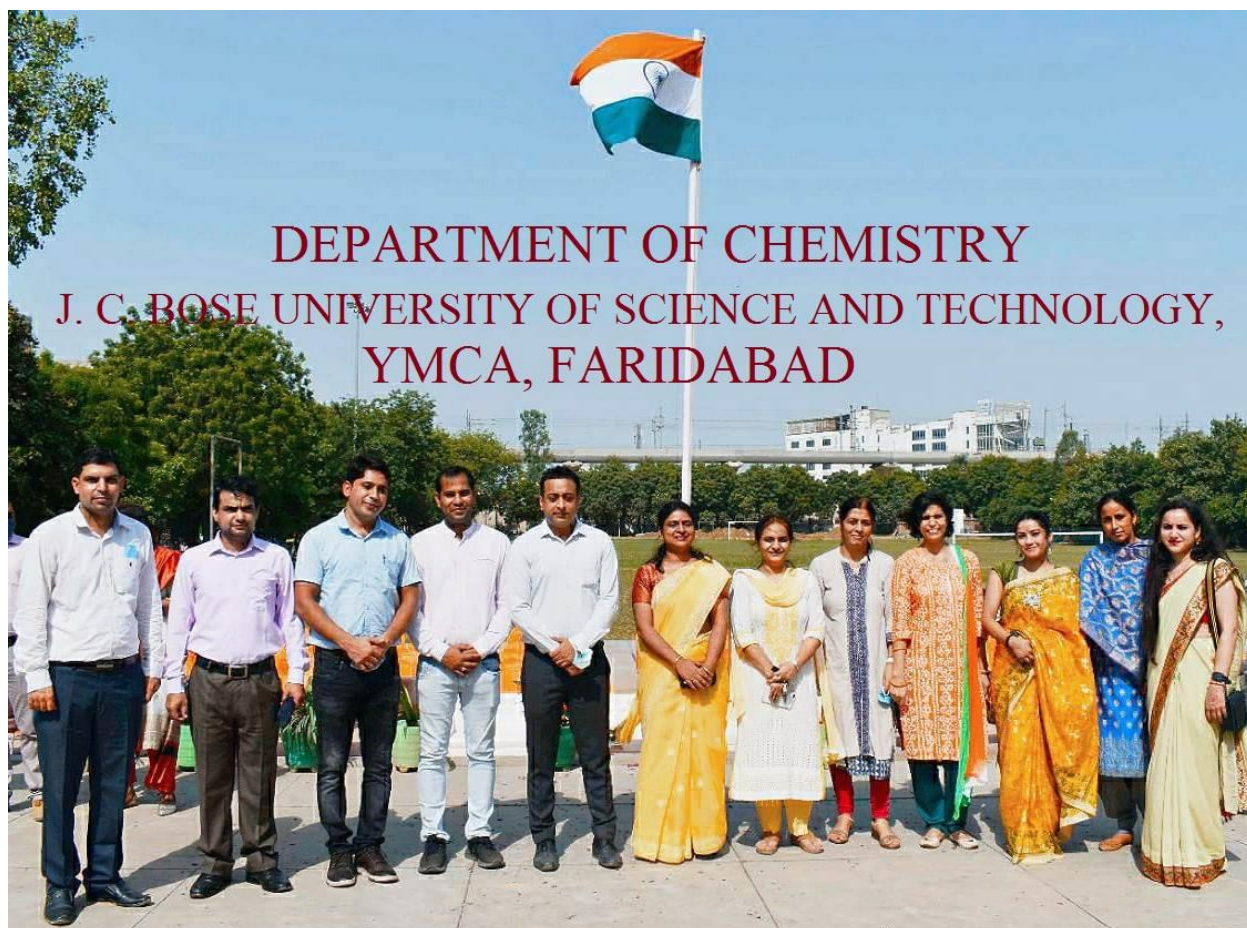


2.	April 6, 2022  3:00-4:00 pm	Recent Trends In Photovoltaics	Dr. Anuj Kr. Arya, JCBUST, YMCA	61	In this talk focus was on four existing technology groups (wafer, thin film, dyes sensitized and organic). It was discussed that earlier projections of third-generation (high- efficiency, low-cost), thin-film technologies haven't yet emerged, since "third-generation" technologies currently have low-cost but also low-efficiency, and discussed with the students about the solar panel self-cleaning technology also.
3.	April 26, 2022  3:00-4:00 pm	<i>Electrochemical Energy Storage Devices</i>	Mr. Aman Joshi, JCBUST, YMCA	69	Electrochemical energy transformation and storing systems, for example, rechargeable Li- ion batteries, supercapacitors, also identified as ultracapacitors, electrochemical supercapacitors, pseudocapacitors and their combinations, familiar by way of supercapatteries, symbolize the extremely proficient and ecologically gentle equipment. Further, EES systems were discussed which show an important utility in electronic and electrical devices with a great concert besides inexpensive cost. Interestingly, among various EES, the most effective energy storage device.
4.	May 12, 2022  3:00-4:00 pm	<i>Recent Trends in Functional Materials for Gas Sensing Applications</i>	Dr. Parveen Kumar Goyal, JCBUST, YMCA	63	The talk covered fundamentals of sensors, synthesis of nanoparticles for sensors and need for polymer composites for gas sensing applications. Basic mechanisms of gas sensing and various critical parameters for the fabrication of good sensing system were also discussed.





## DEPARTMENT OF CHEMISTRY





**1. INTRODUCTION** (Introduction of Department in 100 words)

The Department of Chemistry, established in 2016, is committed to research and teaching since its inception. The department started Master's in Science (Chemistry) 2-year programme in 2016 and immersed with Ph. D. programme in 2017 and B. Sc. Chemistry (Honours) in 2018, and obligated to core courses in Chemistry for undergraduate B. Tech. students. The objective of Chemistry department is to equip students with techniques and skills so that they can contribute to achieving innovative and indigenous solutions to scientific problems related to our society. The faculty members of the department are dedicated to quality teaching and research.

**2. DEPARTMENT VISION:**

Our vision is to enhance our reputation as a world-class teaching and research institution which is recognised for its innovation, excellence and discovery, and attracts the best students and staff worldwide.

**3. DEPARTMENT MISSION:**

- To achieve excellence in teaching and research.
- To meet the challenges of a complex, and modern society through informed social outreach.
- To empower through knowledge and information.
- To develop, enhance, and improve the quality of human resources.
- To cultivate resolute moral and ethical values.

FACULTY AND DEPARTMENT		
	Name	Tenure
<b>Dean of Faculty:</b>	Prof. Ashutosh Dixit	June 2020 to April 2022
<b>Dean of Faculty:</b>	Prof. Neetu Gupta	11.04.2022 to till date
<b>Chairperson of the Department:</b>	<b>Dr. Ravi Kumar</b>	<b>26.02.2022 to 19.04.2022</b>
<b>Incharge of Department:</b>	<b>Dr. Ravi Kumar</b>	<b>20.04.2022 to till date</b>

**4. DEPARTMENT HIGHLIGHTS**

Courses offered	Existing	Newly added
<b>UG Course:</b>	<b>B.Sc. (Hons.) Chemistry</b>	-
<b>PG Course:</b>	<b>M.Sc. Chemistry</b>	-
<b>PhD</b>	<b>Ph.D. Chemistry</b>	-
<b>Others</b>		

SR. NO.	COURSE DETAILS	INTAKE
<b>1</b>	<b>B.Sc. (Hons.) Chemistry</b>	<b>67 (60+7)</b>
<b>2</b>	<b>M.Sc. Chemistry</b>	<b>67 (60+7)</b>
<b>3</b>	<b>Ph.D. Chemistry</b>	Depends on vacant seats of respective faculty

STUDENT ENROLLMENT		
	MALE	FEMALE
<b>Total</b>	<b>24</b>	<b>109</b>
<b>UG Course (62)</b>	<b>14</b>	<b>48</b>





PG Course (67)	11	56
PhD	0	5

## 5. FACULTY DETAILS

	Professor	Associate Professor	Assistant Professor	Adjunct/ Contractual/ Visiting Faculty	Total
Male	0	1	6	0	7
Female		1	2	3* + 1**	6
<b>Total</b>	<b>0</b>	<b>2</b>	<b>8</b>	<b>3</b>	<b>13</b>

\*\*Guest Faculty

\*Contractual

## 6. FACULTY PROFILE

Sr. No.	Name & Designation	Qualification & Specialization	Total Experience (Teaching & Research)	Publication			Book/Chapter
				SCI/SCIE	SCOPUS	UGC Approved Care/Referred	
1	Dr. Ravi Kumar Incharge; Associate Professor	Ph.D. (2005) Organic Synthesis	18 years	2			
2	Dr. Bindu Mangla Associate Professor	PhD (2018) Material Chemistry	14 years	Nil			Nil
3	Dr. Vinod Kumar Assistant Professor	PhD (2013) Optical Spectroscopy	9 Years	2			Nil
4	Dr. Anurag Assistant Professor	PhD (2014) Theoretical and Materials Chemistry	8.5 Years	1			Nil
5	Ms. Pooja Assistant Professor	M. Sc.(2018), Pursuing Ph. D. Computational Chemistry and Bioinformatics	2.5 Years	Nil			Nil
6	Dr. Sunil Kumar Assistant Professor	Ph.D. (2013) Heterocyclic Synthesis; Medicinal Chemistry	9 Years	2			Nil
7	Dr. Sandeep Kumar Assistant Professor	Ph.D (2020) Nanochemistry and colloidal chemistry	1 Year 4 months	2			
8	Dr. Amit Rajput Assistant Professor	PhD (2015) Metal Coordinated Ligand Radical Species	7 Years	1			Nil
9	Dr. Sita Ram Assistant Professor	Ph.D (2016) Medicinal and Synthetic Organic Chemistry	7.5 Years	1			Nil
10	Dr. Bhawna Uttam Assistant Professor	Ph.D (2020) Supramolecular	1 Year 7 months	1			



		Chemistry and Chemical Biology				
11	Dr. Shilpa Behl Assistant Professor	Ph.D (2002) Organo mettalic chemistry	17 Years	Nil		Nil
12	Dr. Vishwas Khurana Assistant Professor	Ph.D. (2006) Synthetic studies in Organic Chemistry	15.5 Years	1		Nil
13	Dr. Nobel Tomar Assistant Professor	PhD 2011 Mixed metal oxides	9 Years	Nil		Nil

### 7. NON-TEACHING STAFF

Sr. No.	Name and Designation	Qualification	Date of Joining
1.	Ms. Ankita ; Lab Assistant	B.Sc. Chemistry (Hons.)	07 August 2019
2.	Mr. Deepak; Lab Assistant	Diploma in Mechanical	07 August 2019
3.	Mr. Naveen Kumar Yadav ; Lab Assistant	B.Tech. (Mechanical Engineering)	28 August 2019
4.	Mr. Krishan Kumar; Lab Assistant	B.Sc. (Non-Med)	05 December 2019
5.	Mrs. Suman ; PA to Chairman (Contractual)	M.A. (& 5 Years Computer Experience)	Outsourcing
6.	Ms. Sarshwati ; Lab Attendant (Contractual)	12 <sup>th</sup>	Outsourcing
7.	Mr. Om Parkash ; Lab Attendant (Contractual)	12th, ITI Diploma	Outsourcing
8.	Mr. Bahram Dutt ; Peon (Contractual)	12th, ITI Diploma	Outsourcing

### 8. DETAILS OF NEWLY JOINED FACULTY MEMBERS DURING THE YEAR

Sr. No.	Name and Designation	Qualification	Date of Joining

### 9. FACULTY MEMBER COMPLETED PHD DURING THE YEAR NIL

Sr. No.	Faculty Name	Discipline	Topic	Awarding Year	Institution



### 10. FACULTY MEMBERS SPONSORED FOR STP/COURSES/WORKSHOPS OR CONFERENCES

Sr. No.	Facility Name	Course/Workshop/Conferences	Sponsored by	Date
1.				
2.				

### 11. DEPARTMENTAL PUBLICATIONS & FDP/STC/WORKSHOP(01/07/2021 - 30/06/2022)

Sr. No.	Particular	Count
4.	Publications in International Journals	<u>13</u>
5.	Publications in National Journals	<u>0</u>
6.	Publications in International Conferences	<u>0</u>
7.	Publications in National conferences	<u>0</u>
8.	Workshop	<u>2</u>
9.	STC/FDP	<u>0</u>

### 12. PAPER PUBLISHED IN INTERNATIONAL JOURNALS (01/07/2020 - 30/06/2021)

S. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
	Name	"Author", "Title". Journal Name, Vol., No., pp.000-000. (Year).
1.	Dr. Ravi Kumar	Rimi Rimi, Sakshi Soni, Bhawna Uttam, Hideyasu China, Toshifumi Dohi, Viktor V Zhdankin, <u>Ravi Kumar</u> . Recyclable Hypervalent Iodine Reagents in Modern Organic Synthesis, Synthesis 2022; 54(12): 2731-2748  Sakshi Soni, Rimi, Vinod Kumar, Kotaro Kikushima, Toshifumi Dohi, Viktor V Zhdankin, <u>Ravi Kumar</u> . Hypervalent iodine (V) catalyzed reactions, ARKIVOC, 2022, vii, 27-56
2.	Dr. Bindu Mangla	Nil
3.	Dr. Vinod Kumar	Kumar, V. "2-Naphthoic acid prototropism within ionic liquid based media" Journal of Molecular Liquids, 2021,339, 116831,ISSN: 016-77322, UGC Sr. No. 14685, Journal no. 24693/https://doi.org/10.1016/j.molliq.2021.116831. Impact factor (6.633) Sakshi Soni, Rimi, Vinod Kumar, Kotaro Kikushima, Toshifumi Dohi, Viktor V Zhdankin, <u>Ravi Kumar</u> . Hypervalent iodine (V) catalyzed reactions, ARKIVOC, 2022, vii, 27-56



4.	Dr. Anurag	Anurag Prakash Sunda* and Sonia Yadav, Advances in Environmental Applications of Metal–Organic Frameworks, ACS Symposium Series, 2021, 1395, 25-52.
5.	Ms.Pooja	Nil
6.	Dr. Sunil Kumar	1. Richa, <u>Sunil Kumar</u> , J. Sindhu, P. Choudhary, S. Jaglan, E. Zangrando, R. Kumar, S. C. Sahoo, V. Kumar, S. K. Mehta, R. Kataria; Exploration of synthesis, structural aspects, DFT studies and bio-efficacy of some new DHA-benzohydrazide based copper(II) complexes. Journal of Molecular Structure, 2021, 1228, 129460. DOI: 10.1016/j.molstruc.2020.129460  2. R. Kataria, D. Vashisht, P. Rani, J. Sindhu, <u>Sunil Kumar</u> , S. Sharma, S. C. Sahoo, V. Kumar, S. K. Mehta. Experimental and Computational Validation of Structural Features and BSA Binding Tendency of 5-Hydroxy-5-trifluoromethyl-3-arylpyrazolines. Chemistry Select, 2021, 6(38), 10324-10335. DOI: 10.1002/slct.202102669
7.	Dr. Sandeep Kumar	1. S. Singh, A. Kumar, N. Kataria, <u>S. Kumar</u> , P. Kumar. Photocatalytic activity of $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> @ CeO <sub>2</sub> and CeO <sub>2</sub> @ $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> core-shell nanoparticles for degradation of Rose Bengal dye. Journal of Environmental Chemical Engineering 9 (5), 106266, 2021.  2. S. Yadav, A. K. Chauchan, <u>Sandeep Kumar</u> and N. Kataria. Advance membrane than technology for the removal of pesticides from water and wastewater, Pesticides Remediation Technologies from Water and Wastewater, Elsevier.
8.	Dr. Amit Rajput	Nil
9.	Dr. Sita Ram	Novel benzenesulfonamide-bearing pyrazoles and 1,2,4-thiadiazoles as selective carbonic anhydrase inhibitors. Rajiv Kumar, Amit Kumar, Sita Ram, Andrea Angeli, Alessandro Bonardi, Alessio Nocentini, Paola Gratteri, Claudiu T. Supuran, Pawan K. Sharma; Archiv Der Pharmazie, 2021 (355), 1, doi.org/10.1002/ardp.202100241
10.	Dr. Bhawna Uttam	Rimi, Sakshi Soni, <u>Bhawna Uttam</u> , Hideyasu China, Toshifumi Dohi, Viktor V Zhdankin, Ravi Kumar. Recyclable Hypervalent Iodine Reagents in Modern Organic Synthesis, Synthesis 2022; 54(12): 2731-2748
11.	Dr. Shilpa Behl	Nil
12.	Dr. Vishwas Khurana	<u>Vishwas Chaudhri</u> , Richa Prakash and Rashmi Pundeer. Advances in the arena of 1-(4-hydroxy-6methyl-2H-pyran-2-on-3-yl)-3-arylpropenone: Preparation, reactivity and transformations. Letters in Organic Chemistry 2022, 19, 93-110
13.	Dr. Nobel Tomar	Nil



### 13. PAPER PUBLISHED IN NATIONAL JOURNALS(01/07/2021 - 30/06/2022)

S. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
	Name	"Author", "Title". Journal Name, Vol., No., year, pp.00-00..
1.		NIL

### 14. PAPER PRESENTED IN NATIONAL CONFERENCES(01/07/2021- 30/06/2022)

S. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1.	Dr. Sita Ram	Presented a poster titled "1,2,3-Triazoles containing benzenesulfonamide as selective potent inhibitors of tumor associated CA isoforms hCA IX and XII" in International Conference on Integrated Approaches in Science & Technology for sustainable future held on 28 Feb-1st March 2022 organised by J.C. Bose University of Science & Technology, YMCA, Faridabad.
2	Dr. Vinod Kumar	Presented a paper titled "New and alternative solvent media for chemical reactions : Ionic Liquids and Deep Eutectic Solvents" in the international conference on Integrated Approaches in Science & Technology for Sustainable Future" IASTSF 2022 organized by J. C. Bose University of Science & Technology, YMCA held on National Science Day 28th February to 1st March 2022

### 15. PAPER PUBLISHED IN INTERNATIONAL CONFERENCES(01/07/2021- 30/06/2022)

S. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1.	Name	Author, "Title", Date, Year, pp: 00-00

### 16. WORKSHOP/STC/CONFERENCES/INVITED TALKS/WEBINAR/OTHER ACTIVITIES CONDUCTED (01/07/2021 - 30/06/2022)

S. No.	Name of Activity	Title	In collaboration with (if any)	Dates	Name of Coordinator
1.	International Conference	International Conference (Virtual) on Recent Advances in Applied Sciences ICRACS-2021	-	July 14-16, 2021	Dr. Ravi Kumar, Dr. Sunil Kumar and Dr. Amit Rajput



**17. STC/FDP/FIP/WORKSHOP/ SYMPOSIA/ WORKSHOP ATTENDED BY FACULTY MEMBERS(01/07/2021 TO 30/06/2022)**

S.No.	Name of Faculty	Name of STC/ FDP	Organized by	Date	
				From	To
1.	Dr. Sita Ram	Professional Development Program	J. C. Bose University of Science and Technology, YMCA, Faridabad	28.06.2021	03.07.2021
2.	Dr. Amit Rajput	One Month Faculty Induction Programme	UGC-HRDC, Jamia Millia Islamia, New Delhi	15.02.2022	16.03.2022
3.	Dr. Sunil Kumar	One Month Faculty Induction Programme	UGC-HRDC, Jamia Millia Islamia, New Delhi	15.02.2022	16.03.2022
4.	Dr. Sandeep Kumar	One Month Faculty Induction Programme	UGC-HRDC, Jamia Millia Islamia, New Delhi	15.02.2022	16.03.2022
5.	Dr. Bhawna Uttam	Professional Development Program	J. C. Bose University of Science and Technology, YMCA, Faridabad	28.06.2021	03.07.2021
6.	Dr. Vishwas Khurana	Professional Development Program	J. C. Bose University of Science and Technology, YMCA, Faridabad	28.06.2021	03.07.2021
7.	Dr. Shilpa Behl	Professional Development Program	J. C. Bose University of Science and Technology, YMCA, Faridabad	28.06.2021	03.07.2021

**18. INVITED TALKS/LECTURES DELIVERED BY FACULTY MEMBERS (01/07/2021 - 30/06/2022)**

S. No.	Name of Faculty	Topic	Venue	Date
1.	Dr. Anurag Prakash Sunda	Nanomaterials	APA Nanoforum-2022, Nanomaterials & Nanoengineering Feb 24-26, 2022 (International e-Conference) (oral Presentation)	25.02.2022
2.	Dr. Amit Rajput	Coordination Chemistry	International Conference (Virtual) ICRACS-2021, JC Bose UST, YMCA Faridabad from July 14-16, 2021 (Invited Lecture)	16.07.2022
3.	Dr. Vinod Kumar	Fluorescence Spectroscopy and Its Applications	Resource person for guest lecture on "Raman Effect and its Applications" for MSc (Chemistry) and BSc (H) Chemistry students conducted by Aggarwal College, Ballabgarh, Faridabad.	16.06.2022



4		Fluorescence Spectroscopy and Its Applications	Resource Person for Webinar on “Fluorescence Spectroscopy and its Applications” Organized by the PG Department of Chemistry D.A.V. College, Bathinda on dated 20.01.2022 (under DBT star college scheme)	20.01.2022
5		Sustainable synthesis of single crystalline sulphur-doped graphene quantum dots for bioimaging and beyond	Resource Person for in the Short Term program on ‘Bio privileged and Sustainable Chemistry’ and delivered a talk on date 19.01.2022, organized by the Department of Chemistry, Manav Rachna University, Faridabad, India from January 17-21, 2022, to commemorate 25 years of Transforming Education (Silver Jubilee Celebration).	19.01.2022
6	Dr. Anurag Prakash Sunda		International Conference (Virtual) ICRACS-2021, JC Bose UST, YMCA Faridabad from July 14-16, 2021 (Invited Lecture)	July 15, 2021

### 19. FACULTY SERVING IN STATE/NATIONAL/INTERNATIONAL COMMITTEES, EDITORIAL BOARDS ETC.(01/07/2021 - 30/06/2022)

S. No.	Name of Faculty	Details
1.	Dr. Ravi Kumar	Guest Associate Editor, Frontiers in Chemistry

### 20. DETAILS OF STUDENTS QUALIFYING COMPETITIVE EXAMS (GATE/CAT/ OTHER EXAM ETC.) (01/07/2021 TO 30/06/2022)

S. No.	Name of Exam	Name of Student	Exam Roll Number	Ranking/Score
1.				

### 21. TRAINING PROGRAMMES HELD FOR STUDENTS DURING THE YEAR

Date	Name of Activity	Number of Participants





## 22. ANY OTHER TRAINING PROGRAMMES HELD FOR FACULTY AND STAFF(FOR CAPACITY BUILDING)

Date	Name of Activity	Name of Participants
00.00.0000		

## 23. DETAIL OF MOUs SIGNED DURING THE YEAR : NIL

Sr. No.	Title of MOU	Academic Partner/ Agency / Industry	Duration	Date of MOU
1.				

## 24. SPONSORED R&D PROJECTS IN-HAND

S.No.	Name of Principal Investigator	Title of Research Project	Funding Agency	Duration	Year of Allotment	Amount (Rs.)
1.	Dr. Anurag P. Sunda	Research Seed Money Award [July 2021 to March 2023] Ongoing Total Cost: Rs. 2 Lakhs	JCBUST	2021-23	July 2021	2 Lacs
2.	Dr. Anurag P. Sunda	UGC Start-up Grant [June 17, 2022] Ongoing Total Cost Rs 10 Lakhs	UGC Start-up Grant	2 Years	June 17, 2022	10 Lacs
3.	Dr. Vinod Kumar	Research Seed Money Award [July 2021 to March 2023] Ongoing Total Cost: Rs. 2 Lakhs	JCBUST	2021-23	July 2021	2 Lacs
4.	Dr. Ravi Kumar	Oxidative Catalysis and Synthesis of COVID-19 Drug Candidates/ Precursors using Iodine incorporated Metal-Organic Frameworks (MOFs)	HSCSIT, DST, Haryan	3 Years	2021	30 Lacs
5.	Dr. Ravi Kumar	Research Seed Money Award [July 2021 to March 2023] Ongoing Total Cost: Rs. 2 Lakhs	JCBUST	2021-23	July 2021	2 Lacs
10.	Dr. Sita Ram	Research Seed Money Award [July 2021 to March 2023] Ongoing Total Cost: Rs. 2 Lakhs	JCBUST	2021-23	July 2021	2 Lacs

## 25. CONSULTANCY PROJECTS IN-HAND NIL

S.No.	Name of Principal	Name of the Project	Funding	Duration	Year of	Amount (Rs.)
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	Consultant		Agency		Allotment	
1.						

## 26. INTERNAL REVENUE GENERATED

S.No.	Name of Principal Consultant	Name of the Project	Funding Agency	Duration	Year of Allotment	Amount (Rs.)
1.						

## 27. WHETHER MENTOR/MENTEE MEETING HELD REGULARLY : YES

## 28. PATENT PUBLISHED /AWARDED DURING THE YEAR: NIL

S.No.	Name of faculty member	Title of Patent	Date of Award/ Publication
1.	Dr. Vinod Kumar [Gupta A.; Shakeel A.; Sangam S.; Suhag D.; Kumar V.; Bhattacharya R.; Sinha O. P.; Chakrabarti S.; Mukherjee M]	“Method for preparation of highly fluorescent biocompatible sulphur doped graphene quantum dots from affordable agro-industrial bio-waste cane molasses using hydrothermal synthesis for bioimaging application”	(2017) E-101/27108/2017-DEL Application number 201711016713. CRN: 2462”Patent Number 397183

## 29. AWARDS/PRIZES WON BY FACULTY DURING THE YEAR: NIL

Sr. No.	Title of the Award	Name of the Awardee	Awarding Agency	State/National/ International
1.				

## 30. AWARDS/PRIZES WON BY STUDENTS DURING THE YEAR NIL

Sr. No.	Title of the Award	Name of the Awardee	Awarding Agency	State/National/ International
1.				

## 31. OUTSTANDING ACHIEVEMENTS 2020-2021 NIL

## 32. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES



The department is well equipped with the following facilities:

Sr. No.	Facility	Existing	Added*
11.	Labs	4	
12.	Workshops	-	
13.	Lecture Halls	-	
14.	Smart Classroom		
15.	Conference Room		
16.	Seminar Halls/Projector Rooms/Research Lab	1	
17.	Internet Connection	Yes	
18.	LCD /LED	-	
19.	ICT (Projector/OHP/Interactive Board)	-	
20.	Any Other Facility- Computers/Desktops/Laptops/Printer	Laptop- 2 Desktop- 8 Printer- 5+1*	Desktop- 4 (Mar 2021)

\*Indent form another department to Chemistry Department

## CHEMISTRY DEPARTMENT LABORATORY DETAILS

### Laboratory 1: Inorganic Chemistry Lab

1. Introduction of Lab: The Inorganic Chemistry Lab (F-10) was constructed in Sept. 2018 with the aim to benefit to the students of M.Sc., B.Sc. students and Research Scholars. The lab is fully designed to conduct all the experiments related to inorganic chemistry.



Inorganic Chemistry Laboratory

2. Laboratory/Project Coordinator: Dr. Bindu Mangla, Associate Professor, Department of Chemistry

3. Total Cost of Research Equipments: 7,30,939/-

4. Details of Equipments:

Kipps Apparatus	Vacuum Desiccator (5)
Centrifuge	Water Demineralizer
Ph Meter (05)	Thermostat (Incubator)
Digital Conductometer (05)	Uv/Vis Spectrophotometer
Digital Potentiometer (04)	Muffle Furnace



Vacuum Pump	Rectangular Muffle Furnace (100* 100* 225mm)
Electronic Balance	Ultrasonic Bath
Heating Mantles (2)	Magnetic Stirrer With Hot Plate
Water Bath	Weighing Balance (3)
Hot Plate (2)	Double Distillation Unit
Magnetic Stirrer (3)	Melting Point Apparatus (3)
Polarimeter (4)	Uv/Vis Chamber
	Digital Flame Photometer

5. Benefit to Students/Researchers:

B.Sc. (Hons.) Chemistry (UG) and M.Sc. Chemistry (PG) Students are able to perform their experiments of curriculum related to their inorganic chemistry practicals. Research Scholars are also able to access the lab equipment/facility as per their requirement along with the permission of coordinator.

### Laboratory 2: Organic Chemistry Lab

1 Introduction: The Organic Chemistry Lab (F-10) was constructed in Sept. 2018 with the aim to benefit to the students of M.Sc., B.Sc. and Ph.D courses. The lab is fully designed to conduct all the experiments related to organic chemistry e.g. organic synthesis, estimations and organic mixture analysis.



**Organic Lab Photos**

1. Laboratory/Project Coordinator: Dr. Sita Ram, Assistant Professor, Department of Chemistry
2. Total Cost of Research Equipments: Rs. 8,80,096/-
3. Details of equipments:

S.No.	Name of Equipment	Quantity
1	UV-Visible Spectrophotometer	01
2	Ice Maker (capacity 180-200 Kg)	01
3	Weighing Balance	01
4	UV-Visible Chambers	02
5	Vaccum Pump	01
6	Heating Oven	01
7	Hot Plate Magnetic Stirrer	05
8	Melting point apparatus	05
9	Electric Water Bath	02
10	Heating Mantels	08

4. Benefit to students/researchers: The students can perform following types of experiments in this laboratory;
  1. Organic synthesis
  2. Qualitative organic analysis
  3. Quantitative organic analysis



**Laboratory 3: Physical Chemistry Lab**

1. Introduction :

Physical Chemistry lab is designed for M.Sc. Chemistry and B.Sc. (Hons.) Chemistry students to perform specific experiments related to Physical Chemistry.



Physical Chemistry Lab

2. Laboratory/Project Coordinator: Dr. Vinod Kumar, Assistant Professor, Department of Chemistry

3. Total Cost of research equipments: 4,14,540 /-

4. Details of equipments:

pH- meter – 03

Weighing Balance – 02

Conductometer – 03

Polarimeter – 04

Potentiometer – 03

Abbes Refractometer- 02

Photo-Colorimeter – 02

Double Distillation unit- 01

Electric waterbath – 02

UV-Vis chamber – 01

Flame photometer -01

Microtek online UPS 1 KVA – 01

5. Benefit to students/researchers: Students are able to perform their experiments of curriculum related to their chemistry practicals. Research Scholars are also able to access the lab equipment/facility as per their requirement along with the permission of coordinator



**Laboratory 4: B.Tech. Lab**

1. Introduction:

The B.Tech. Chemistry Laboratory is designed to perform the experiments related to B.Tech. Chemistry practicals. Laboratory is equipped with various laboratory instruments such as Polarimeter, Potentiometer, Refractometer, Conductometer etc. for the calculations of various parameters which are relevant to the study of science and engineering.



B.Tech. Laboratory Photo

2. Laboratory/Project Coordinator: Ms. Pooja, Assistant Professor, Department of Chemistry

3. Total Cost of research equipments: Rs. 314,055/-

4. Details of equipments:

pH meter,  
Polarimeter,  
Potentiometer,  
Refractometer,  
Conductometer.

5. Benefit to students/researchers:

The chemistry laboratory course will consist of experiments:

- Estimate rate constants of reactions from concentration of reactants/products as a function of time.
- Measure molecular/system properties such as surface tension by stalagmometer , viscosity by Ostwald's viscometer, conductance of solutions, redox potentials, chloride content of water, etc.
- Synthesize a small drug molecule, polymers and analyse a salt sample.
- Concept of thin layer chromatography and titration.



### 33. EXPENDITURE INCURRED ON ACADEMIC SUPPORT FACILITIES DURING THE YEAR

Sr. No.	Name of item procured	Academic Utility	Cost
1.	National e-workshop on "Hands-On Training & Practices in Computational Chemistry" (Honorarium to Chief Guest, Resource person and Zoom Account)	Students and Participants got training in the field of Computational Chemistry, Chem office and Uv-Visible Spectroscopy	Rs. 35726/-
	Total Expenditure		Rs. 35726/-

### 34. DETAIL OF PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE DEPARTMENT (01/07/2021 TO 30/06/2022)

<https://jboseust.ac.in/chemistry/news-and-events>

### 35. BRIEF DETAILS ABOUT THE ACTIVITY

<https://jboseust.ac.in/chemistry/news-and-events>





## DEPARTMENT OF MATHEMATICS







## **DEPARTMENT OF MATHEMATICS**

### **1. INTRODUCTION**

The Department of Mathematics mission is to impart a deep understanding of the subject and to prepare the students which will enable them to face the challenges and use their knowledge to make a better world. The department has been running the postgraduate course M.Sc. Mathematics since 2010. In 2018, the department was given a great push when the department started a new undergraduate course B.Sc. (Hons.) Mathematics. The department also offers Doctorate degree in several fields of mathematics like Partial Differential Equations, Quantum Optics, Queuing Theory, Numerical Analysis, Reliability Theory, and Operations Research. The objectives are to develop critical thinking in students, nurture their interest and motivate them for research in mathematics. The students are encouraged to participate in various activities like invited lectures, seminars, workshops, conferences, quizzes etc. Our vision is to be one of the renowned institutes of mathematics both in the fields of teaching and research.

### **2. DEPARTMENT VISION**

A department that can effectively harness its multidisciplinary strengths to create an academically stimulating atmosphere; evolving into a well-integrated system that synergizes the efforts of its competent faculty towards imparting intellectual confidence that aids comprehension and complements the spirit of inquiry. To emerge as a department of science, which will provide strong foundations in the areas of pure and applied mathematics in order to develop innovative minds for interdisciplinary research.

### **3. DEPARTMENT MISSION**

- To create well-rounded individuals ready to comprehend scientific and technical challenges offered in the area of specialization.
- To counsel the students so that the roadmap becomes clearer to them and they have the zest to turn the blueprint of their careers into a material reality.
- To encourage critical thinking and develop their research acumen by aiding the nascent spirit for scientific exploration.
- Help them take economic, social, legal and political considerations when visualizing the role of technology in improving quality of life.

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- To infuse intellectual audacity that makes them take bold initiatives to venture into alternative methods and modes to achieve technological breakthroughs.
- To develop strong communication skills among students.
- To develop strong moral values.
- To develop strong foundations in mathematics to have sound analytical and critical thinking ability for innovative solutions in practical problems.
- To continuously improve the basic infrastructure in pursuit of providing the necessary environment for academic excellence.
- To develop a nurturing environment for lifelong learning.

FACULTY AND DEPARTMENT		
	Name	Tenure
Dean of Faculty:	Prof. Ashutosh Dixit	June 2020 to April 2022
Dean of Faculty:	Prof. Neetu Gupta	11.04.2022 to till date
Chairperson of the Departments	Prof. Neetu Gupta	05.08.2018 to till date

### 4. DEPARTMENT HIGHLIGHTS

Courses offered	Existing	Newly added
UG Course	B.Sc. (Hons.) Mathematics	No
UG Course	B.Sc. Mathematics and Computing	Yes
PG Course	M.Sc. Mathematics	No
PhD	Mathematics	No
Others	No	No

Sr. No.	COURSE DETAILS	INTAKE
1.	B.Sc. (H) Mathematics	60+6
2.	B.Sc. Mathematics and Computing	10+1

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3.	M.Sc. Mathematics	60+6
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STUDENT ENROLLMENT		
	MALE	FEMALE
<b>Total</b>	108	233
<b>UG Course</b>	69	133
<b>PG Course</b>	28	93
<b>PhD</b>	11	7

### 5. FACULTY DETAILS

Sr. No.	Professor	Associate Professor	Assistant Professor	Adjunct/Contractual/Visiting Faculty	Total
<b>Male</b>	0	0	4	1	5
<b>Female</b>	1	0	5	2	8
<b>Total</b>	1	0	9	3	13

### 6. FACULTY PROFILE

Sr. No.	Name & Designation	Qualification & Specialization	Total Experience	Publication			Book/Chapter
				SCI/SCIE	SCOPUS	UGC Approved Care/Referred	

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1.	Prof. Neetu Gupta, Professor and Chairperson	Queuing Theory, Operation Research	17 years	9	6	15	1
2.	Dr. Reena Garg, Assistant Professor	PhD, Reliability Theory	17 years 10 months	0	18	19	11 books + 2 book chapters
3.	Ms. Nisha Singh, Assistant Professor	Pure Mathematics	9 years and 6 months	0	0	0	0
4.	Dr. Arpita Chatterjee, Assistant Professor	PhD, Quantum Optics and Quantum Information Processing	11 years 4 months	24	0	1	0
5.	Dr. Ramu Dubey, Assistant Professor	Nonlinear Optimization , Nonlinear Dynamics, Mathematica l Ecology	8 years	17	28	0	4 chapters
6.	Mr. Abhishek, Assistant Professor	Pure Mathematics	6 years and 7 Months	0	0	0	0

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7.	Dr. Suraj Goyal, Assistant Professor	Continuum Mechanics- Wave Propagation	8 years and 7 months	7	0		1 Book edited
8.	Dr. Manu Rohilla, Assistant Professor	Fixed Point Theory	1 year and 10 months	3	1	0	0
9.	Dr. Pooja Gupta, Assistant Professor	Approximation Theory	5 years and 1 months	7	2	0	0
10.	Dr. Parveen Kumar, Assistant Professor	Applied Mathematics , Mathematical Modeling, Continuum Mechanics	17 years	0	6	4	2
11.	Mr. Kuldeep Singh, Assistant Professor	Pure Mathematics	2 years	0	1	0	0
12.	Dr. Meenu Chawla	Mathematical Modeling of microfluidic, nanofluidic and fluid	9 years 4 months	1	1	4	2

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		flows using tribology					
13	Dr. Shashi Sharma	Mathematical Modeling for Magnetic Drug Targeting	9 Year	6	4	0	0

### 7. NON-TEACHING STAFF

Sr. No.	Name and Designation	Qualification	Date of Joining
1.	Ms. Sarita (Lab Assistant)	B.Sc., B.Ed., MCA	07-08-2019
2.	Mr. Jaswant (Clerk)	B.A.	07-10-2013
3.	Mr. Naveen (Peon)	10 <sup>th</sup>	09-08-2018

### 8. DETAILS OF NEWLY JOINED FACULTY MEMBERS DURING THE YEAR

Sr. No.	Faculty Name	Designation & Qualification	Date of Joining
1	Dr. Meenu Chawla	Assistant Prof. (cont.)& Ph.D.	13/10/21
2	Dr. Shashi Sharma	Assistant Prof. (cont.)& Ph.D.	24/9/21

### 9. FACULTY MEMBER COMPLETED PHD DURING THE YEAR

Sr. No.	Faculty Name	Discipline	Topic	Awarding Year	Institution
1.	Dr. Manu Rohilla	Mathematics	Fixed Point Theorems for Contractive Mappings in Generalized	2021	University of Delhi

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			Metric Spaces		
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**10. FACULTY MEMBERS SPONSORED FOR STP/COURSES/WORKSHOPS OR CONFERENCES**

Sr. No.	Faculty Name	Course/Workshop/Conferences	Sponsored by	Date
1.	NIL	NIL	NIL	NIL

**11. DEPARTMENTAL PUBLICATIONS & FDP/STC/WORKSHOP(01/07/2021 – 30/06/2022)**

Sr. No.	Particular	Count
1.	Publications in International Journals	14
2.	Publications in National Journals	0
3.	Publications in International Conferences	0
4.	Publications in National conferences	0
5.	Workshop	2
6.	STC/FDP	0

The Department of Mathematics has received a grant of Rs 1,00,000/- from Haryana State Council for Science, Innovation and Technology.

**12. PAPERS PUBLISHED IN INTERNATIONAL JOURNALS (01/07/2021– 30/06/2022)**

Sr. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
1.	Dr. Pooja Gupta	Pooja Gupta, Mangey Ram and Ramu Dubey, Image of Polynomials under Generalized Szasz operators, Appl Math J. Chinese Univ, 36, 599-610, (2021).
2.	Dr. Arpita Chatterjee	<i>“A comparison between higher-order nonclassicalities of SUP-engineered coherent and thermal states”</i>



		<p>Deepak and <b>A. Chatterjee*</b>  <b>Can. J. Phys.</b>, 99(12), 1061-1072 (2021),  <a href="https://doi.org/10.1139/cjp-2021-0098">https://doi.org/10.1139/cjp-2021-0098</a></p> <p><i>“Lower- versus higher-order nonclassicalities for a coherent superposed quantum state”</i></p> <p>Deepak and <b>A. Chatterjee*</b>  <b>J. Opt. Soc. Am. B</b>, 38(11), 3212-3221 (2021),  <a href="https://doi.org/10.1364/JOSAB.424140">https://doi.org/10.1364/JOSAB.424140</a></p> <p><i>“Quantifying quantum correlation of quasi-Werner state and probing its suitability for quantum teleportation”</i></p> <p><b>A. Chatterjee</b>, K. Thapliyal and A. Pathak  <b>Annalen der Physik</b>, 533(10), 2100201 (2021),  <a href="https://doi.org/10.1002/andp.202100201">https://doi.org/10.1002/andp.202100201</a></p> <p><i>“Dynamics of an atom cavity field system in interacting Fock space”</i></p> <p>P. K. Das and <b>A. Chatterjee*</b>  <b>Int. J. Theo. Phys.</b>, 60(3), 954-967 (2021),  <a href="https://doi.org/10.1007/s10773-021-04718-y">https://doi.org/10.1007/s10773-021-04718-y</a></p> <p><i>“Nonclassical properties of a deformed atom-cavity field state”</i></p> <p>Naveen Kumar, Deepak and <b>A. Chatterjee*</b>  <b>J. Mod. Opt.</b>, 69(18), 1052-1059 (2022),  <a href="https://doi.org/10.1080/09500340.2022.2124462">https://doi.org/10.1080/09500340.2022.2124462</a></p> <p><i>“Realistic continuous-variable quantum teleportation using a displaced Fock state channel”</i></p> <p>Deepak and <b>A. Chatterjee*</b>  <b>Quant. Infor. Procss.</b>, 21, 145(1-14) (2022),  <a href="https://doi.org/10.1007/s11128-022-03484-y">https://doi.org/10.1007/s11128-022-03484-y</a></p> <p><i>“Two-mode photon-added entangled coherent states and their entanglement properties”</i></p> <p><b>A. Chatterjee*</b>  <b>Acta Physica Polonica A</b>, 141(3), 183-190 (2022),  <a href="https://doi.org/10.12693/APhysPolA.141.183">https://doi.org/10.12693/APhysPolA.141.183</a></p>
3.	Dr Reena Garg	<p><b>1)Reliability measures of a cold standby system subject to</b></p>





		<p>refreshment ,International Journal of System Assurance Engineering and Management,Page :1-9(Sept. 2021)</p> <p>2)Reliability modeling and performance analysis of bio-coal manufacturing system with deviation in demand,Life Cycle Reliability and Safety Engineering(Oct. 2021).</p> <p>3)Performance analysis of the briquette machine considering a neglected faults with preventive maintenance,Page:(2075-2083)(Jan. 2022).</p> <p>4)Availability measures and profit optimization of redundant system having single unit with imperfect switch-over device,Life Cycle Reliability and Safety Engineering,Page:(155-162)(March 2022).</p> <p>5)Reliability Analysis and Profit Optimization of Briquette Machine by considering neglected faults,Reliability Theory and Applications,Page:(210-222)(March 2022).</p> <p>6)Profit Analysis of a cold standby Computing System with Weibull failure and Repair Laws,International Journal of Statistics and reliability Engineering, Page:(158-166)(May-2022)</p>
4.	Dr Suraj Goyal	<p>S Goyal, J Bhagwan, R Kamra, SK Tomar Plane dilatational and shear waves in a uniformly rotating thermo-viscoelastic material with voids. <i>Mechanics of Advanced Materials and Structures</i> 29 (26), 4779-4799. <a href="https://doi.org/10.1080/15376494.2021.1939204">https://doi.org/10.1080/15376494.2021.1939204</a></p>
5.	Dr. Ramu Dubey	<p>1.Pooja Gupta, Mangey Ram and Ramu Dubey, Image of Polynomials under Generalized Szasz operators, <i>Appl Math J. Chinese Univ</i>, 36, 599-610, (2021).</p> <p>2. TEEKAM SINGH AND RAMU DUBEY, SPATIAL PATTERNS DYNAMICS OF A DIFFUSIVE PREDATOR–PREY SYSTEM WITH COOPERATIVE BEHAVIOR IN PREDATORS (<i>Fractals</i> Vol. 29, No. 04, 2150085 (2021)</p> <p>3. Shivam, Kuldeep Singh, Mukesh Kumar, Ramu Dubey , Teekam Singh, Untangling role of cooperative hunting among predators and herd behavior in prey with a dynamical systems approach (<i>Chaos, Solitons and Fractals</i>,</p>

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**13. PAPER PUBLISHED IN NATIONAL JOURNALS(01/07/2021 – 30/06/2022)**

Sr. No.	Name of Faculty	Author, Title, Journal, Volume, Issue, Pages, Year
1.	NIL	NIL

**14. PAPERS PUBLISHED IN NATIONAL CONFERENCES(01/07/2021- 30/06/2022)**

Sr. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1.	NIL	NIL

**15. PAPERS PUBLISHED IN INTERNATIONAL CONFERENCES(01/07/2021- 30/06/2022)**

Sr. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1.	NIL	NIL

**16. WORKSHOP/STC/INVITED TALKS/WEBINAR/OTHER ACTIVITIES CONDUCTED (01/07/2021 – 30/06/2022)**

Sr. No.	Name of Activity	Title	In collaboration with (if any)	Dates	Name of Coordinators
1.	Value Added Course	Ten Days Value Added Course on “Vedic Mathematics”	Shiksha Sanskriti Utthan Nyas, New Delhi	18/10/2021 to 28/10/2021	Coordinator: Dr. Parveen Kumar Co-coordinator: Dr. Manu Rohilla
2.	Workshop	Two days Workshop on “Recent Trends in Complex Analysis”	-	09/02/2022 to 10/02/2022	Coordinator: Dr. Manu Rohilla Co-coordinator: Dr. Parveen Kumar



3.	Workshop	A Two Day Workshop on “Applications of Mathematics”	Sponsored by Haryana State Council of Science, Innovation and Technology	09-10 August 2021	Coordinator: Dr. Suraj Goyal Co-coordinator: Dr. Parveen Kumar
4.	Seminar	One day seminar on ‘Applications of Mathematics’	Sponsored by Haryana State Council of Science, Innovation and Technology	29th March 2022	Dr Reena Garg, Coordinator
5.	National level Competition	National level Debate Competition	Sponsored by Haryana State Council of Science, Innovation and Technology	22 Dec, 2021	Dr. Arpita Chatterjee Coordinator, Dr. Pooja Gupta, Co-coordinator
6.	National level Competition	National level Poster Presentation Competition	Sponsored by Haryana State Council of Science, Innovation and Technology	22 Dec, 2021	Dr. Reena Garg Coordinator, Ms. Nisha Singh Coordinator, Mr. Abhishek Coordinator

**17. STC/FDP/WORKSHOP/ SYMPOSIA/ WORKSHOP ATTENDED BY FACULTY MEMBERS(01/07/2021 TO 30/06/2022)**

Sr. No.	Name of Faculty	Name of STC/ FDP	Organized by	Date	
				From	To
1.	Dr. Arpita Chatterjee	2 days international conference on “Integrated Approaches in Science and Technology for Sustainable Future (IASTSF-2022)”	JCBUST	28/02/2022	01/03/2022



		2 days workshop on “Recent Trends in Complex Analysis”	JCBUST	09/02/2022	10/02/2022
		10 days National Workshop on “Vedic Mathematics”	Department of Mathematics, CBLU, Bhiwani	31/08/2021	09/09/2021
2.	Dr. Manu Rohilla	Ten Days National Workshop on “Vedic Mathematics”	Department of Mathematics, Chaudhary Bansi Lal University, Bhiwani	31/08/2021	09/09/2021
3.	Dr. Manu Rohilla	One Week (Online) International Faculty Development Programme on “Advanced Linear Algebra”	Miranda House, University of Delhi	27/09/2021	01/10/2021
4.	Dr. Manu Rohilla	Online Two Week Interdisciplinary Refresher Course on “Advanced Research Methodology”	Ramanujan College, University of Delhi	22/01/2022	05/02/2022
5.	Dr. Manu Rohilla	Four Week Induction/Orientation Programme for Faculty in Universities/Colleges/ Institutes of Higher Education	Ramanujan College, University of Delhi	20/05/2022	18/06/2022
6.	Dr. Parveen Kumar	Faculty Induction Program (FIP)	UGC-HRDC Jamia Millia Islamia	8 June 2022	5 July 2022

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			University Delhi		
7.	Dr. Parveen Kumar	National workshop on Vedic Mathematics	CBLU Bhiwani	31 August 2021	9 September 2021
8.	Dr. Parveen Kumar	Faculty development Program	Aggarwal College Ballabgarh	7 July 2021	14 July 2021
9.	Dr. Parveen Kumar	Value added course on Vedic Mathematics	Department of mathematics, JC Bose UST YMCA Faridabad	18 October 2021	28 October 2021
10.	Dr. Reena Garg	Ten Days National Workshop on “Vedic Mathematics”	Department of Mathematics, Chaudhary Bansi Lal University, Bhiwani	31/08/2021	09/09/2021
11.	Dr. Reena Garg	Value added course on Vedic Mathematics	Department of mathematics, JC Bose UST YMCA Faridabad	18 October 2021	28 October 2021
12.	Dr. Pooja Gupta	2 days international conference on “Integrated Approaches in Science and Technology for Sustainable Future (IASTSF-2022)”	JCBUST	28/02/2022	01/03/2022
13.	Dr. Pooja Gupta	Value added course on Vedic Mathematics	Department of mathematics, JC Bose UST YMCA Faridabad	18 October 2021	28 October 2021
14.	Prof. Neetu Gupta	2 days workshop on “Recent Trends in Complex Analysis”	Department of mathematics, JC Bose UST YMCA Faridabad	09/02/2022	10/02/2022

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15.	Prof. Neetu Gupta	Value added course on Vedic Mathematics	Department of mathematics, JC Bose UST YMCA Faridabad	18 October 2021	28 October 2021
16.	Dr. Suraj Goyal	Professional Development Programme	Department of mathematics, JC Bose UST YMCA Faridabad	28/06/2021	03/07/2021
17.	Dr. Suraj Goyal	2 days workshop on “Recent Trends in Complex Analysis”	Department of mathematics, JC Bose UST YMCA Faridabad	09/02/2022	10/02/2022
18.	Dr. Suraj Goyal	Value added course on Vedic Mathematics	Department of mathematics, JC Bose UST YMCA Faridabad	18 October 2021	28 October 2021
19.	Dr. Meenu Chawla	Value added course on Vedic Mathematics	Department of mathematics, JC Bose UST.	18 October 2021	28 October 2021
16.	Dr. Shashi Sharma	Value added course on Vedic Mathematics	Department of mathematics, JC Bose UST.	18 October 2021	28 October 2021

**18. INVITED TALKS/LECTURES DELIVERED BY FACULTY MEMBERS (01/07/2021 -30/06/2022)**

Sr. No.	Name of Faculty	Topic	Venue	Date
1.	Dr. Parveen Kumar	Calculus and Ordinary differential equation	GDC Memorial College Bahal Bhiwani	23 September. 2021
2.	Dr. Parveen Kumar	Applications of Mathematics in Engineering	RPS CET Balana Mahendergarh	30 December. 2021
3.	Dr Reena Garg	Mathematical Science & Technology:Latest Applications	GGN Institute of Management & Technology Ludhiana(online mode)	3rd July 2021
4.	Prof. Neetu	Queueing Theory and It's	27 <sup>th</sup> International	26 <sup>th</sup> -28 <sup>th</sup> Oct,

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	Gupta	Applications	Conference of IAPS(online) on Recent Advances in Mathematics & Computational Optimizations	2021
5.	Prof. Neetu Gupta	Solution of Simultaneous Linear Equations	Mahatma Hansraj Faculty Development Centre	7 <sup>th</sup> Dec, 2021
6.	Prof. Neetu Gupta	Matrices, Determinants, Differentiation and Integration	Mahatma Hansraj Faculty Development Centre	11 <sup>th</sup> Dec, 2021
7.	Prof. Neetu Gupta	Vedic Mathematics & It's Applications	Saraswati Mahila Mahavidyalaya Palwal	7 <sup>th</sup> April, 2022
8.	Dr. Suraj Goyal	Implementation of Numerical Methods using MATLAB	Department of Mathematics, IIT Indore	Jan 3-8, 2022
9.	Dr. Suraj Goyal	Delivered 4 lectures in Workshop on Latex	R & D Section and Pt. Deen Upadhayay Central Library, JCBUST YMCA	May 12, 2022
10.	Dr. Suraj Goyal	Seminar on Latex- An Introduction	Department of Mathematics, JCBUST YMCA	May 18, 2022

**19. FACULTY SERVING IN STATE/NATIONAL/INTERNATIONAL COMMITTEES, EDITORIAL BOARDS ETC.(01/07/2021 – 30/06/2022)**

Sr. No.	Name of Faculty	Details
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<p>1.</p>	<p>Dr Reena Garg</p>	<p>Life member of</p> <p>Ramanujan Mathematical Society</p> <p>Indian Mathematical Society</p> <p>Indian Science Congress Association</p> <p>Indian Society For Technical Education</p> <p>Indian Society For Probability &amp; Statistics</p> <p>IAENG International Association of Engineers</p> <p>Forum of Interdisciplinary Mathematics (F I M)</p> <p><b>Member Editorial Board, International Journal of Engg. &amp; Management Research (IJEMR).</b></p> <p><b>Member of Reviewer Board, International Journal of Research Engg &amp; Technology.</b></p>
<p>2.</p>	<p>Prof. Neetu Gupta</p>	<p>Life member of</p> <p>Indian Mathematical Society</p> <p>Indian Society For Technical Education</p> <p>Forum of Interdisciplinary Mathematics (F I M)</p> <p>Operational research society of India</p>





3.	Dr Suraj Goyal	<ol style="list-style-type: none"> <li>1. Member (Membership No.: GYSRXB) and Reviewer (MathSciNet Reviewer Number: 139733) of AMS (American Mathematical Society) since 2018.</li> <li>2. Lifetime member (Membership No.: L/2019/39) of IMS (Indian Mathematical Society).</li> <li>3. Lifetime member (Membership No.: L41295) of ISCA (Indian Science Congress Association).</li> </ol>
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**20. DETAILS OF STUDENTS QUALIFYING COMPETITIVE EXAMS (GATE/CAT/ OTHER EXAM ETC.)(01/07/2021 TO 30/06/2022)**

Sr. No.	Name of Exam	Name of Student	Exam Roll Number	Ranking/Score
1.	IIT JAM	Kritika Gupta	MA301A044	1871
2.	IIT JAM	Esha	MA301A182	349
3.	JOINT CSIR-UGC NET	Rajan Singh	DL0102240026	161
4.	JOINT CSIR-UGC NET	Akash Tewatia	RJ0702240072	72

**21. TRAINING PROGRAMMES HELD FOR STUDENTS DURING THE YEAR**

Date	Name of Activity	Number of Participants
	NIL	

**22. ANY OTHER TRAINING PROGRAMMES HELD FOR FACULTY AND STAFF(FOR CAPACITY BUILDING)**

Date	Name of Activity	Name of Participants
NIL	NIL	NIL

**23. DETAIL OF MOUs SIGNED DURING THE YEAR**

Sr. No.	Title of MOU	Academic Partner/ Agency / Industry	Duration	Date of MOU
1.	NIL	NIL	NIL	NIL



**24. SPONSORED R&D PROJECTS IN-HAND**

Sr. No.	Name of Principal Investigator	Title of Research Project	Funding Agency	Duration	Year of Allotment	Amount (Rs.)
1.	NIL	NIL	NIL	NIL	NIL	NIL

**25. CONSULTANCY PROJECTS IN-HAND**

Sr. No.	Name of Principal Consultant	Name of the Project	Funding Agency	Duration	Year of Allotment	Amount (Rs.)
1.	NIL	NIL	NIL	NIL	NIL	NIL

**26. INTERNAL REVENUE GENERATED**

Sr. No.	Name of Principal Consultant	Name of the Project	Funding Agency	Duration	Year of Allotment	Amount (Rs.)
1.	NIL	NIL	NIL	NIL	NIL	NIL

**27. WHETHER MENTOR/MENTEE MEETING HELD REGULARLY : YES**

**28. PATENT PUBLISHED/AWARDED DURING THE YEAR**

Sr. No.	Name of faculty member	Title of Patent	Date of Award/Publication
1.	Dr Reena Garg	A Novel Stochastic Model for Reliability Evaluation of Computing Machines subject to Arrival Time of Service Facility Upon Failure	25th August 2021(Granted)

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### 29. AWARDS/PRIZES WON BY FACULTY DURING THE YEAR

Sr. No.	Title of the Award	Name of the Awardee	Awarding Agency	State/National/International
1.	Research Publication Cash Award	Dr Suraj Goyal	R & D Section, JCBUST YMCA	University

### 30. AWARDS/PRIZES WON BY STUDENTS DURING THE YEAR

Sr. No.	Title of the Award	Name of the Awardee	Awarding Agency	State/National/International
1.	NIL	NIL	NIL	NIL

### 31. OUTSTANDING ACHIEVEMENTS 2021-2022

2 students have cleared the IIT JAM examination and 2 students have qualified the NET exam.

### 32. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES

The department is well equipped with the following facilities:

Sr. No.	Facility	Existing	Added*
1.	Labs	02	Nil
2.	Workshops	Nil	Nil
3.	Lecture Halls	Nil	Nil
4.	Smart Classroom	Nil	Nil
5.	Conference Room	Nil	Nil
6.	Seminar Halls/Projector Rooms/Research Lab	Nil	Nil
7.	Internet Connection	Yes	Nil
8.	LCD /LED	Nil	Nil
9.	ICT (Projector/OHP/Interactive Board)	Nil	Nil
10.	Any Other Facility	Nil	Nil

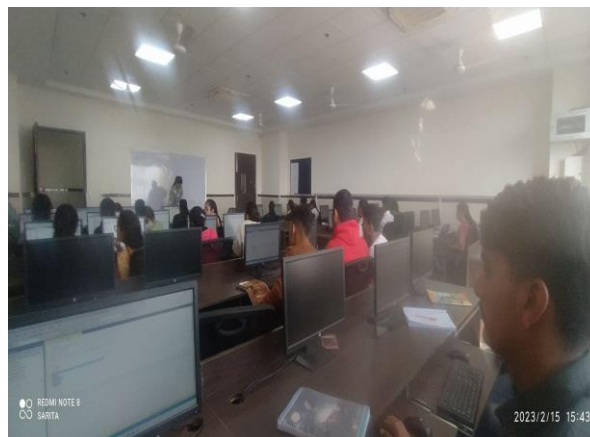
## Annual Report 2021-22



**\*NOTE: As directed by authorities, the laboratory or advanced research facility developed in the Department must be portrayed in the report with photographs.**

1. Introduction of lab (50 words)

Department of Mathematics has fully equipped Labs for B.Sc. and M.Sc. Students. This Lab is equipped with computers of high configuration. The Lab contains chairs, tables, bookshelves, air conditioners, printer, UPS. Turbo C & C++ and Licensed MATLAB software is running in the computer systems of the Labs. Labs are also facilitating Internet connection.



2. Laboratory/Project Coordinator:

Dr. Suraj Goyal

Dr. Pooja Gupta

3. Total Cost of research equipments:

Nil

4. Details of equipments:

Computer systems, printer and UPS.



5. Benefit to students/researchers:

The Turbo C & C++ and MATLAB helps the students in the following areas

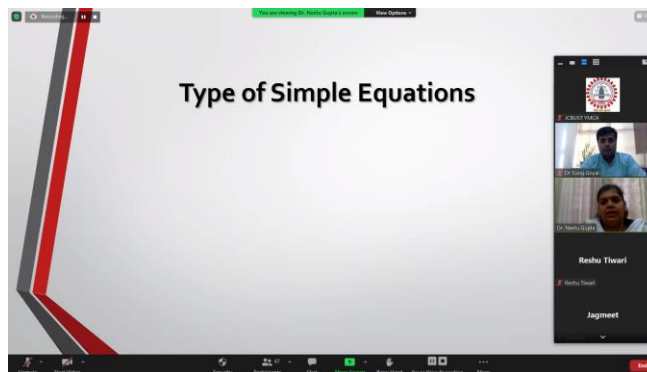
- (a) Mathematics and computation.
- (b) Enhancing Programming skills.
- (c) Data analysis, exploration, and visualization.
- (d) Scientific and engineering graphics.
- (e) Application development of Matrix Based programming.

**33. EXPENDITURE INCURRED ON ACADEMIC SUPPORT FACILITIES DURING THE YEAR**

Sr. No.	Name of item procured	Academic Utility	Cost
1.	NIL	NIL	NIL

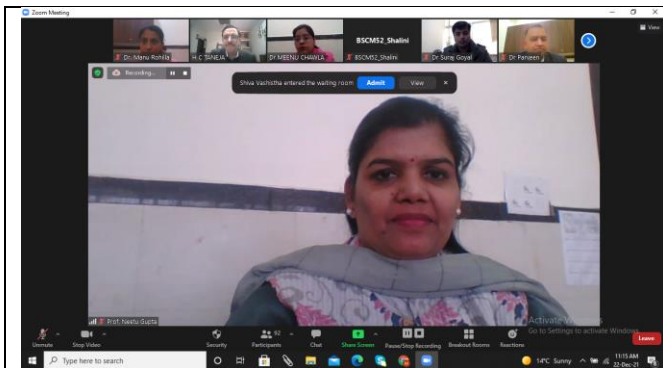
**34. DETAIL OF PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE DEPARTMENT (01/07/2020 TO 30/06/2021)**

Two-Day Workshop on Applications of Mathematics

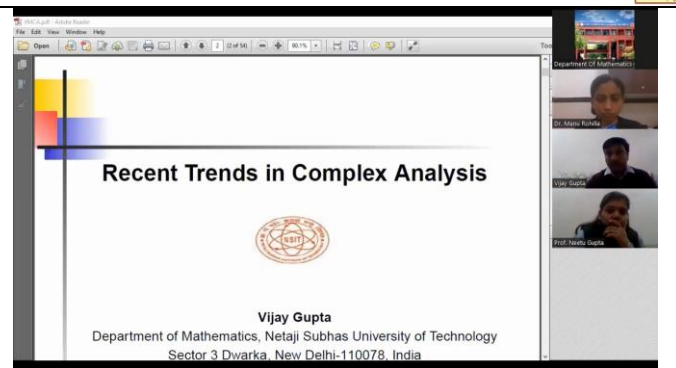


Ten Days Value Added Course on “Vedic Mathematics”

## Annual Report 2021-22



National Mathematics Day 2021



Two Days Workshop on “Recent Trends in Complex Analysis”



One Day Seminar on “Applications of Mathematics”

### 35. BRIEF DETAILS ABOUT THE ACTIVITY

1. To familiarize the students with applications of mathematics, the Department of Mathematics, organized an online two day workshop on “Applications of Mathematics” from 9-10 August 2021. This Workshop was sponsored by Haryana State Council of Science, Innovation and Technology. More than 150 participants from different branches



of the University and different parts of the country registered for the workshop. On the occasion, Prof. Neetu Gupta, Chairperson of the Department welcomed the eminent speakers from renowned institutes like IIT Roorkee, IIT Ropar, Punjab University and North cap University. Prof. Sandeep Grover, Dean Quality Assurance and Professor, Department of Mechanical Engineering of the university formally welcomed the chief guest of the program Prof. Kusum Deep. The Chief Guest, Prof. Kusum Deep from IIT Roorkee shared her experience, cultural background of India, treasures of Mathematics from Vedas and applications in nature as well as in daily life. Prof. S. K. Tomar, the then Honorary Director, UGC-Human Resource Development Center, Dean of Students Welfare, Panjab University was the first speaker of the workshop. Prof. Tomar discussed the practical problems of Calculus of variation with participants. Dr Subash Chandra Martha, Associate Professor, Department of Mathematics IIT Ropar delivered a lecture on modeling, differential equations and its engineering application. On 2nd day of the workshop, Prof. Ashish Arora, Chairperson Department of Mathematics from IKG Punjab Technical University, Jalandhar was the first speaker. He delivered the lecture on the relevance of the work of Ramanujan, the great mathematician in the context of modern works. Dr. Ameeya Kumar Nayak, Associate Professor, Department of Mathematics from IIT Roorkee, explained Curve Fitting: Least Squares Fit to Polynomial in his lecture. Prof. C.B. Gupta, Professor, Department of Mathematics, NorthCap University, Gurugram focussed on “Why study Mathematics?”.

2. A ten days value added course on “Vedic Mathematics” was organized from 18-28 October 2021 for the basic knowledge and awareness which was inaugurated successfully on October 18, 2021. It was organized jointly by the Department of Mathematics and Department of Computer Engineering, J.C. Bose University of Science and Technology, YMCA in collaboration with Shiksha Sanskriti Utthan Nyas, New Delhi. Prof. Neetu Gupta (Chairperson, Department of Mathematics) gave an introduction about the value added course, which was followed by welcome address by Prof. Ashutosh Dixit, Dean, Faculty of Sciences, JCBUST, a course introduction by Sh. Rakesh Bhatia, National Co-coordinator of Shiksha Sanskriti Utthan Nyas and a keynote address by Chief Guest Sh. Atul Kothari, National Secretary, Shiksha Sanskriti Utthan Nyas. In his welcome address, Hon’ble Vice Chancellor, Prof. Dinesh Kumar elaborated about the daily needs of Mathematics. The resource person for the very first lecture of the course was Dr. Shriram Chauthaiwale, who is a retired Lecturer from Amolakchand college, Amravati University, Maharashtra. Dr. Kailash Vishwakarma, Associate Professor, BN PG College Rath, Hamirpur, Uttar Pradesh talked about how to easily multiply two big numbers vertically or crosswise by using different Sutras. Sh. Rakesh Bhatia, Head of Vedic Mathematics branch of Vidya Bharti, discussed the “Nikhilam Navtascarmam Dastah” sutra of Vedic Mathematics. On the 4th day Sh. Rakesh Bhatia, described the duplex method used in arithmetic and algebra. On the 5th day, Dr. Dinesh Madan, Professor, Department of Mathematics, Ch. Bansi Lal University, Bhiwani discussed the journey of ancient mathematics in detail. Dr. Ashish Arora, Professor and Chairperson, Department of Mathematics, IKG Punjab Technical University, Jalandhar talked about divisibility, explained division by Sutras-Paravartya and Ekadhikena. The resource person for the





sixth day, Dr. Kailash Vishwakarma discussed finding the cube root of Perfect Cube by Vilokanam method. Vinaculum method & Nikalam of numbers was discussed in detail by Dr. Anuradha Gupta, Associate Professor, Delhi College of Arts and Commerce University of Delhi, New Delhi to make the division simplified and to reduce the computation time. Sh. Rakesh Bhatia discussed the topic of factorization. He explained how to factorize quadratic and cubic expressions with different examples. Dr. Shriram Chauthaiwale explained how to calculate cube of large numbers easily using different sutras like Nikhilam and Anurupyena. On the 8th day, Sh. Rakesh Bhatia explained different methods of finding the HCF and LCM. Dr. Shriram Chauthaiwale explained the various divisibility tests in Vedic Mathematics. Solutions of simultaneous linear equations were explained in detail by taking several examples to demonstrate the various methods and techniques by Prof. Neetu Gupta. Life and work of Bhaskaracharya were discussed by Prof. Aashish Arora. He emphasized that our country has a great legacy in Mathematics, which we need to revisit. Prof. Kuldeep Bansal, Guru Jambheshwar University of Science and Technology, Hisar addressed the valedictory session.

3. To commemorate the 134rd birth Anniversary of Srinivasa Ramanujan, Department of Mathematics organized a National Level competition for Poster Making, PPT Presentation, Debate and Rangoli Making in Online and Offline mode. The program was sponsored by Haryana State Council for Science, Innovation and Technology. On 22 nd December, two expert lectures were organized. Prof. H.C. Taneja, DTU New Delhi started his talk by recalling the glorious history of Indian Mathematicians. Prof. Pankaj Gupta, Department of Operation Research, University of Delhi delivered a talk on the concept of Linear Programming. Fourteen teams from different departments of the university participated in rangoli competition and there were seven themes, namely, Calculus, Group theory, Mathematical/Geometrical Shapes, Graph Theory, Number Theory, An Eminent Mathematician, Application of Mathematics in our daily life.
4. The Department of Mathematics has organized a two days workshop on “Recent Trends in Complex Analysis” sponsored by Haryana State Council of Science, Innovation and Technology (HSCSIT). The workshop is being organized from 9 - 10 February 2022. Participants from different universities registered for the workshop. On this occasion, Prof. Neetu Gupta, Chairperson of the Department, welcomed worthy Registrar Prof. Sunil Kumar Garg, the Chief guest Prof. Vijay Gupta, Professor, Department of Mathematics, Netaji Subhas University of Technology, Delhi, Prof. Ashutosh Dixit, Dean-Faculty of Sciences and Faculty of Life Sciences, Dr. Anuradha Gupta, Associate Professor, Department of Mathematics, Delhi College of Arts and Commerce, University of Delhi and all the participants of the course. In the keynote address, the Chief guest, Prof. Vijay Gupta gave a brief introduction about the uses of Complex Analysis in different fields of mathematics. Dr. Anuradha Gupta gave a brief history of the origin of complex analysis citing various works done between the 12th century and 16th century. In the second session, Prof. R.C. Mittal discussed how to find Laurent series of a function. In the third session, Dr. Sushil Kumar described about zeroes of analytic Functions, complex integration and Cauchy’s theorem. On the second day, in the first session, Dr. Anuradha Gupta explained various topics like contour, punctured disk,



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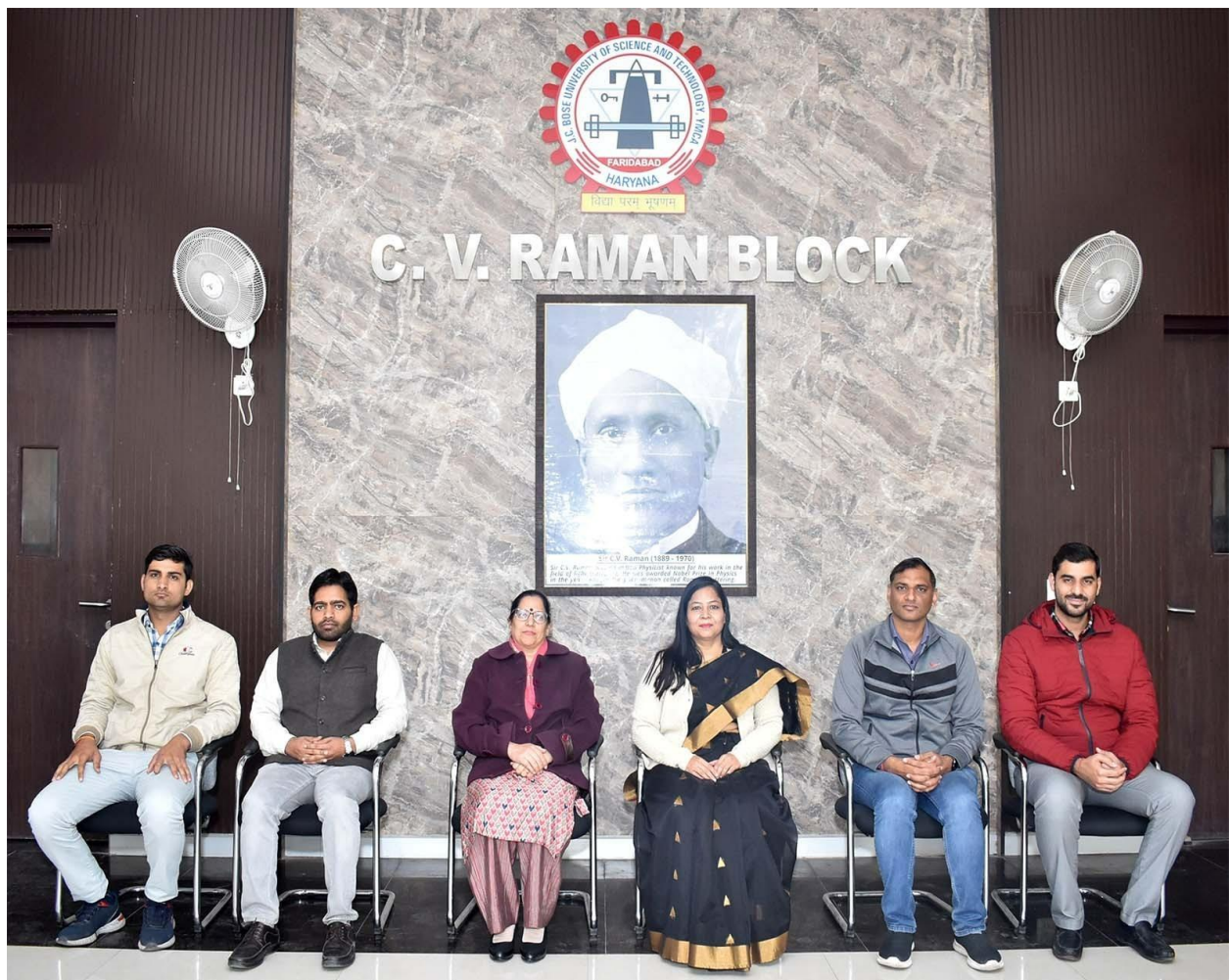


residue, singularities and its different types, Cauchy's Residue Theorem, Complex integration with examples. In the second session, Prof. R.C. Mittal explained in detail about Conformal Mapping. In the third session, Prof. S.S. Chauhan discussed how complex numbers came into existence.

5. One day seminar on "Applications of Mathematics" sponsored by the Haryana State Council for Science Innovation and Technology (HSCSIT) was organized by the Department of Mathematics of J.C. Bose University of Science and Technology, YMCA, Faridabad on 29 th March 2022. Prof. Neetu Gupta was the convener and Dr. Reena Garg was the coordinator of this event. More than 250 participants attended the event. Prof. B. S. Rajput, former Vice-Chancellor of Kumaun University was the chief guest and keynote speaker in the seminar. Addressing the session, Prof. Rajput detailed the work and achievements of ancient Indian thinkers and philosophers in the fields of Mathematics. Prof. Sujit Bose, superannuated Professor, Calcutta University delivered a talk on "Evolution of Mathematics with an illustration of Data Transmission on globe". In the second lecture of the day, Prof. L.R. Vermani, superannuated Professor, Kurukshetra University delivered a lecture on "Backtracking and N-Queens Problem".



## DEPARTMENT OF ENVIRONMENTAL SCIENCES





## DEPARTMENT OF ENVIRONMENTAL SCIENCES

### 1. INTRODUCTION

The Department of Environmental Sciences at J.C. Bose University of Science and Technology YMCA Faridabad was established in 2018 by offering two years post-graduate program M.Sc. Environmental Sciences and Ph.D. program in Environmental Sciences. Since 2016, both the programs were part of Department of Humanities and Sciences. The Department is committed to provide the quality education in the area of Environmental Sciences to transform students into post-graduates with high professional skills and values. Presently, the department has five regular faculty members. It has necessary infrastructure, and facilities required for postgraduate courses in Environmental Sciences. The department also caters to teaching the Mandatory Subject Environmental Sciences to all UG programs of the university. The department is engaged in various research projects and provides consultancy services to the environment sector. The academic curriculum is industry/research focused delivered by well-qualified, competent, research-oriented and experienced faculty members and experts from industry. Besides this, the department is playing an active role in developing a sustainable society by organizing various environmental awareness programs at local and national level. With continuous development and expansion of its scientific/research infrastructure and academic faculty, the department aims to become one of the leading departments of the University and the nation in future.

### 2. DEPARTMENT VISION

A department that can effectively harness its multidisciplinary strength by imparting in- depth knowledge of scientific, technical, legal and social aspects of environment to produce technologically adept Environmental engineers, post-graduates and researchers, that can address emerging challenges to sustainability for the betterment of society.”

### 3. DEPARTMENT MISSION

- To impart training for capacity building to tackle various Environmental challenges in a sustainable manner.
- To provide holistic education to develop Environment leaders, policy makers and solution seekers.
- To provide interdisciplinary and transformative research in the field of Environmental Science & Engineering.
- To provide technological exposure to the students through industrial training programs.
- To promote outreach activities for public awareness and societal benefit.

<b>FACULTY AND DEPARTMENT</b>		
	<b>Name</b>	<b>Tenure</b>
<b>Dean of Faculty:</b>	Prof. Ashutosh Dixit	June 2020 to April 2022
<b>Dean of Faculty:</b>	Prof. Neetu Gupta	11.04.2022 to till date
<b>Chairperson of the Departments:</b>	Dr Renuka Gupta	26.02.2020 to 19.04.2022



<b>Incharge of the Department</b>	Dr Renuka Gupta	20.04.2022 to till date
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#### 4. DEPARTMENT HIGHLIGHTS

<b>Courses offered</b>	<b>Existing</b>	<b>Newly added</b>
<b>UG Course:</b>	Nil	01
<b>PG Course:</b>	01	Nil
<b>PhD</b>	01	Nil
<b>Others</b>	Nil	Nil

<b>Sr. No.</b>	<b>Course Details</b>	<b>Intake</b>
1.	B.Tech. Environmental Engineering	30
2.	M.Sc. Environmental Sciences	35
3.	Ph.D. Environmental Sciences	as per availability of supervisor

<b>Student Enrollment</b>		
	<b>Male</b>	<b>Female</b>
<b>Total</b>	19	79
<b>UG Course</b>	08	06
<b>PG Course</b>	10	64
<b>PhD</b>	01	09

#### 5. FACULTY DETAILS

	<b>Professor</b>	<b>Associate Professor</b>	<b>Assistant Professor</b>	<b>Adjunct/ Visiting Faculty</b>	<b>Total</b>



<b>Male</b>	Nil	Nil	02	01	03
<b>Female</b>	Nil	01	02	Nil	03
<b>Total</b>		01	04	01	06

## 6. FACULTY PROFILE

Sr. No.	Name & Designation	Qualification & Specialization	Total Experience	Publication			Book/Chapter
				SCI/SCIE	SCOPUS	UGC Approved Care/Referred	
1.	Dr. Renuka Gupta	Ph.D., & Environmental Pollution Monitoring and Abatement, Water and Wastewater Treatment, Heavy metal removal by Nano-adsorbents, Solid Waste Management	13 Years	20	25	5	10 Book Chapters Books – 2 8 e-modules
2.	Dr. Somvir Bajar	Ph.D. & Environmental Pollution Monitoring and Control, Carbon Sequestration, Biofuel production	10 years	13	05	04	12 Book Chapters; 13 e-Modules; 3 Books



3.	Dr. Smita	Ph.D. (2017), PDF (2019)  Environmental Pollution assessment and abatement; Liquid waste management; Microbial Fuel Cell Technology; Bioremediation; Bioenergy	6 years	61	09	Nil	17
4.	Dr. Navish Kataria	Ph.D., PDF  Environmental Nanotechnology & Water Treatment	3.5 years	22	21	--	06 Book chapter
5.	Dr. Anita Girdhar	Ph.D.  Phytoremediation,  Waste Water treatment	8 years	Nil	Nil	Nil	Nil

**7. NON-TEACHING STAFF**

Sr. No.	Name and Designation	Qualification	Date of Joining
1.	Sachin Kumar, Lab Assistant	Diploma in Mechanical Engg.	08/08/2019
2.	Harish Vat, (Clerk Cum PA)	MA, B.ed., PGDCA	14/02/2022
3.	Avneesh Debey (Lab Assistant)	B.Sc.	18/10/2021
4.	Raj Kumar (Peon cum Lab Attendant)	ITI, BA, Diploma in Computer	01/07/2017



### 8. DETAILS OF NEWLY JOINED FACULTY MEMBERS DURING THE YEAR

Sr. No.	Facility Name	Designation & Qualification	Date of Joining
1.	Dr. Renuka Gupta	Associate Professor & Ph.D.	03/08/2009
2.	Dr. Somvir Bajar	Assistant Professor & Ph.D.	07/02/2020
3.	Dr. Smita	Assistant Professor & Ph.D., PDF	31/01/2020
4.	Dr. Navish Kataria	Assistant Professor & Ph.D., PDF	31/01/2020
5.	Dr. Anita Girdhar	Assistant Professor & Ph.D	16/08/2017

### 9. FACULTY MEMBER COMPLETED PHD DURING THE YEAR

Sr. No.	Facility Name	Discipline	Topic	Awarding Year	Institution
1.	Nil	----	----	----	----

### 10. FACULTY MEMBERS SPONSORED FOR STP/COURSES/WORKSHOPS OR CONFERENCES

Sr. No.	Facility Name	Course/Workshop/Conferences	Sponsored by	Date
1.	Nil	Nil	Nil	Nil

### 11. DEPARTMENTAL PUBLICATIONS & FDP/STC/WORKSHOP (01/07/2021 - 30/06/2022)

Sr. No.	Particular	Count
1.	Publications in International Journals	19
2.	Publications in National Journals	00
3.	Publications in International Conferences	Nil
4.	Publications in National conferences	01
5.	Workshop	05





6.	STC/FDP	10
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## 12. PAPER PUBLISHED IN INTERNATIONAL JOURNALS (01/07/2021 - 30/06/2022)

Sr. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
1.	Dr. Renuka Gupta	<p>1. Mago, M., Yadav, A., Gupta R., Garg, VK (2021). Sustainable treatment and nutrient recovery from leafy waste through vermicomposting. <i>Bioresource Technology</i>, 347 (126390). Elsevier) IF: 11.88 (SCI-indexed) <a href="https://doi.org/10.1016/j.biortech.2021.126390">https://doi.org/10.1016/j.biortech.2021.126390</a></p> <p>2. R. Gupta, H. Chauhan, V.K. Garg, N. Kataria (2022). Chemical and Physical properties of Nanoparticles and Hybrid materials. In edited book: "Sustainable nanotechnology for Environmental Remediation: Elsevier, pp 199-220. (Book Chapter)</p>
2.	Dr. Somvir Bajar	<p>3 Devi, A., Bajar, S., Kour, H. <i>et al.</i> (2022). Lignocellulosic Biomass Valorization for Bioethanol Production: A Circular Bioeconomy Approach. <i>BioEnergy Research</i>, 1, 1-22; Springer Publisher, Singapore; (DOI: <a href="https://doi.org/10.1007/s12155-022-10401-9">https://doi.org/10.1007/s12155-022-10401-9</a>) <b>IF: 2.814</b>. Accepted: January 24, 2022; Online/ Published: February 7, 2022) (ISSN-p: 1939-1234); Scopus and SCIE Indexed.</p> <p>4 Yadav, D.K., Bishnoi, N.R., Bajar, S., Singh, A. (2022). An In-Depth Evaluation of Feedstock, Production Process. In: Zero Waste Biorefinery (Ed.(s) Nandabalan Y.K., Garg V.K., Labhsetwar N.K., Singh A., Energy, Environment, and Sustainability. Springer, Singapore, pp. 515-533, (ISBN 978-981-16-8681-8 (Print); 978-981-16-8682-5 e-book), DOI: <a href="https://doi.org/10.1007/978-981-16-8682-5_18">https://doi.org/10.1007/978-981-16-8682-5_18</a></p>
3.	Dr. Smita	<p>5. Malyan, S. K., Kumar, S. S., Fagodiya, R. K., Ghosh, P., Kumar, A., Singh, R., &amp; Singh, L. (2021). Biochar for environmental sustainability in the energy-water-agroecosystem nexus. <i>Renewable and Sustainable Energy Reviews</i>, 149, 111379.</p> <p>6. Mona, S., Malyan, S. K., Saini, N., Deepak, B., Pugazhendhi, A., &amp; Kumar, S. S. (2021). Towards sustainable agriculture with carbon sequestration, and greenhouse gas mitigation using algal biochar. <i>Chemosphere</i>, 275, 129856.</p> <p>7. Pathania, D., Sharma, A., Kumar, S., Srivastava, A. K., Kumar, A., &amp; Singh, L. (2021). Bio-synthesized Cu-ZnO hetro-nanostructure for catalytic degradation of organophosphate chlorpyrifos under solar illumination. <i>Chemosphere</i>, 277, 130315.</p> <p>8. Jadhav, D. A., Mungray, A. K., Arkatkar, A., &amp; Kumar, S. S. (2021). Recent advancement in scaling-up applications of microbial fuel cells: from reality to practicability. <i>Sustainable Energy Technologies and Assessments</i>, 45, 101226.</p> <p>9. Kumar, S. S., Ghosh, P., Kataria, N., Kumar, D., Thakur, S., Pathania, D., ... &amp; Singh, L. (2021). The role of conductive nanoparticles in anaerobic digestion: Mechanism, current status and future perspectives. <i>Chemosphere</i>, 280, 130601.</p>





		<p>10. Malyan, S. K., Bhatia, A., Fagodiya, R. K., Kumar, S. S., Kumar, A., Gupta, D. K., ... &amp; Pathak, H. (2021). Plummeting global warming potential by chemicals interventions in irrigated rice: A lab to field assessment. <i>Agriculture, Ecosystems &amp; Environment</i>, 319, 107545.</p> <p>11. Malyan, S. K., Kumar, S. S., Singh, A., Kumar, O., Gupta, D. K., Yadav, A. N., ... &amp; Kumar, A. (2021). Understanding Methanogens, Methanotrophs, and Methane Emission in Rice Ecosystem. <i>Microbiomes and the Global Climate Change</i>, 205-224.</p> <p>12. Mishra, P., Lee, J., Kumar, D., Louro, R. O., Costa, N., Pathania, D., ... &amp; Singh, L. (2022). Engineered nanoenzymes with multifunctional properties for next-generation biological and environmental applications. <i>Advanced Functional Materials</i>, 32(8), 2108650.</p> <p>13. Agarwal, N. K., Kumar, M., Kumar, S. S., Singh, L., Vijay, V. K., &amp; Kumar, V. (2022). Anaerobic digestion of sugarcane bagasse for biogas production and digestate valorization. <i>Chemosphere</i>, 133893.</p> <p>14. Jangwan, J. S., Kumar, S. S., Kumar, V., Kumar, A., &amp; Kumar, D. (2022). A review on the capability of zinc oxide and iron oxides nanomaterials, as a water decontaminating agent: adsorption and photocatalysis. <i>Applied Water Science</i>, 12(3), 46.</p> <p>15. Nigam, M., Mishra, P., Kumar, P., Rajoriya, S., Pathak, P., Singh, S. R., ... &amp; Singh, L. (2022). Comprehensive technological assessment for different treatment methods of leather tannery wastewater. <i>Environmental Science and Pollution Research</i>, 1-18.</p> <p>16. Malyan, S. K., Kumar, S. S., Fagodiya, R. K., Ghosh, P., Kumar, A., Singh, R., &amp; Singh, L. (2021). Biochar for environmental sustainability in the energy-water-agroecosystem nexus. <i>Renewable and Sustainable Energy Reviews</i>, 149, 111379.</p>
4.	Dr. Navish Kataria	<p>17. Kataria, N., Chauhan, A. K., Garg, V. K., &amp; Kumar, P. (2022). Sequestration of heavy metals from contaminated water using magnetic carbon nanocomposites. <i>Journal of Hazardous Materials Advances</i>, 6, 100066.</p> <p>18. Yadav, S., Chauhan, A. K., Kumar, S., &amp; Kataria, N. (2022). Advanced membrane technology for the removal of pesticides from water and wastewater. In <i>Pesticides Remediation Technologies from Water and Wastewater</i> (pp. 143-156). Elsevier.</p> <p>19. Singh, S., Kumar, A., Kataria, N., Kumar, S., &amp; Kumar, P. (2021). Photocatalytic activity of <math>\alpha</math>-Fe<sub>2</sub>O<sub>3</sub>@ CeO<sub>2</sub> and CeO<sub>2</sub>@ <math>\alpha</math>-Fe<sub>2</sub>O<sub>3</sub> core-shell nanoparticles for degradation of Rose Bengal dye. <i>Journal of Environmental Chemical Engineering</i>, 9(5), 106266.</p>

### 13. PAPER PUBLISHED IN NATIONAL JOURNALS (01/07/2021 - 30/06/2022)

Sr. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
1.	Nil	Nil



## 14. PAPER PUBLISHED IN NATIONAL CONFERENCES (01/07/2021 TO 30/06/2022)

Sr. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1.	Nil	Nil

## 15. PAPER PUBLISHED IN INTERNATIONAL CONFERENCES (01/07/2020- 30/06/2021)

Sr. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1.	Nil	Nil

16. WORKSHOP/STC/INVITED TALKS/WEBINAR/OTHER ACTIVITIES CONDUCTED  
(01/07/2021 - 30/06/2022)

Sr. No.	Name of Activity	Title	In collaboration with (if any)	Dates	Name of Coordinator
1.	International Earth Day Celebration	Invest in Our Planet	Vasundhara Eco-club	22nd April 2022	Dr. Anita Girdhar
2.	Expert Lecture	E-Waste Management	—	26th April 2022	Dr. Anita Girdhar
3.	Plantation Drive - एक पौधा एक संकल	Plantation Drive - एक पौधा एक संकल	Vasundhara Eco-club	04.06.2021 to 31.08.2021	Dr. Renuka Gupta
4.	One Day Webinar	Webinar on World Environment Day 2021” Theme: “Ecosystem Restoration	Vasundhara Eco-club, NSS Cell	05.06.2021	Dr. Renuka Gupta
5.	Value Added Course	Analytical Tools and Techniques in Environmental Research	Advanced Instrumentation Research Facility, JNU, Delhi	22.02.2021 to 26.02.2021	Dr. Renuka Gupta Dr Anita Girdhar and Dr Somvir Bajar
6.	AICTE sponsored Faculty Development	“Recent Advances in Technologies	—	07.03.2022 to	Dr. Renuka Gupta Dr Somvir Bajar



	Program	for Environmental Sustainability”		12.03.2022	
7.	WEBINAR	“INTERNATIONAL DAY OF CLEAN AIR FOR BLUE SKIES	—	September 07, 2021	Dr. Renuka Gupta Dr Somvir Bajar
8.	Plantation Activity	TULSI PLANT DISTRIBUTION”-2021	—	September 16-17, 2021	Dr. Renuka Gupta
9.	Expert Lecture	“How to Crack UGC-NET/JRF”	—	28 February, 2022	Dr. Renuka Gupta Dr. Navish Kataria
10.	Expert Lecture	Career Opportunities in Environmental Sciences	TPO, JC Bose UST YMCA Faridabad	19.04.2022	Dr Somvir Bajar
11.	PSG’s National Environment Youth Parliament - Group Discussion event	National Environment Youth Parliament	Vasundhara Eco-club	12.1.2022	Dr. Renuka Gupta

**17. STC/FDP/WORKSHOP/ SYMPOSIA/ WORKSHOP ATTENDED BY FACULTY MEMBERS (01/07/2021 TO 30/06/2022)**

Sr. No.	Name of Faculty	Name of STC/ FDP	Organized by	Date	
				From	To
1.	Dr. Renuka Gupta	One-week AICTE sponsored online STTP on “Research Excellence and Academic Development: Modern Library Practices in	Pt. Deen Dayal Upadhyay Central Library, J.C. Bose University of Science and Technology YMCA Faridabad	28 <sup>th</sup> Feb	5 <sup>th</sup> March 2022



		Present Scenario”			
		AICTE sponsored One week online STTP on “Recent Advances in Technologies for Environmental Sustainability”	Department of Environmental Science and Engineering, J.C. Bose University of Science and Technology YMCA Faridabad.	7 <sup>th</sup> March 2022	12 <sup>th</sup> March 2022
		Webinar on “Converting Research to Patents”	Department of Electrical Engineering, J. C. Bose University of Science and Technology, YMCA, Faridabad	4 <sup>th</sup> March 2022	
		National Environment Youth Parliament – 2022	Paryavaran Sanrakhan Gatividhi Organization held at Sansad Bhawan, New Delhi	16 <sup>th</sup> April, 2022	
		Webinar on “International Day of Clean Air for Blue Skies” on theme “Healthy Air, Healthy Planet”	Department of Environmental Science & Engineering and Vasundhara ECO-CLUB, J.C. Bose University of Science and Technology YMCA Faridabad	7 <sup>th</sup> September, 2021	
		Professional Development Program (PDP-2021)	JCBUST, YMCA Faridabad.	28.06.2021	03.07.2021
2.	Dr Somvir Bajar	One Day National Workshop on “Air Pollution and Health Impacts (Need of Interdisciplinary Research)”	Department of Environmental Sciences, Central University of Jammu, J&K	01.06.2022	01.06.2022
		One Day Awareness/ Training program under	Intellectual Property Office, India	29.04.2022	29.04.2022



		“National Intellectual Property Awareness Mission”			
		AICTE sponsored One-week online STTP on “Recent Advances in Technologies for Environmental Sustainability”	Department of Environmental Science and Engineering, J.C. Bose University of Science and Technology YMCA Faridabad.	7 <sup>th</sup> March 2022	12 <sup>th</sup> March 2022
		UGC sponsored Two-week Interdisciplinary Refresher Course on “Environmental Sciences”	UGC-HRDC, GJUS&T, Hisar	21.02.2022	05.03.2022
		One Week AICTE sponsored “Faculty Development Programme (FDP)” on “Research & Innovations in Engineering”	Department of Civil Engineering, J.C. Bose University of Science & Technology, YMCA, Faridabad	07.02.2022	12.02.2022
		National Workshop on “Research: Lab to Publications”	Department of Chemistry, Research & Development Section, J.C. Bose University of Science & Technology, YMCA, Faridabad; American Chemical Society (ACS) and Vigyan Bharti Haryana (Faridabad Unit)	28.08.2021	28.08.2021
		Workshop on “Research Methodology”, entitled “Research for Resurgence Anandshala”	Research & Development Section, J.C. Bose University of Science & Technology, YMCA, Faridabad	23.07.2021	24.07.2021



		Innovation Ambassador Training (Foundation Level)	Ministry of Education's (MoE's) Innovation Cell and AICTE	30.06.2021	30.07.2021
		Professional Development Program (PDP-2021)	JCBUST, YMCA Faridabad.	28.06.2021	03.07.2021
4.	Dr Navish Kataria	Professional Development Program (PDP-2021)	JCBUST, YMCA Faridabad.	28.06.2021	03.07.2021
		One Week FDP on "Cardinal Role of Quality Education in Developing Self-Reliant India"	Aggarwal College, Ballabgarh	07/07/2021	14.07/2021
		One Month, UGC Sponsored Faculty Induction Program (FIP)	UGC-Human Resource Development Centre, Jamia Millia Islamia, New Delhi	10-12-2021	08-01-2022
		AICTE sponsored One-week online STTP on "Recent Advances in Technologies for Environmental Sustainability"	Department of Environmental Science and Engineering, J.C. Bose University of Science and Technology YMCA Faridabad.	7 <sup>th</sup> March 2022	12 <sup>th</sup> March 2022
5.	Dr Anita Girdhar	AICTE sponsored One-week online STTP on "Recent Challenges and Development in Solar Energy Technologies and its Applications"	Department of Environmental Science and Engineering, J.C. Bose University of Science and Technology YMCA Faridabad.	24.03.2022	29.03.2022
		AICTE sponsored One-week online STTP on "Recent Advances in Technologies for Environmental	Department of Environmental Science and Engineering, J.C. Bose University of Science and	07.03.2022	12.03.2022



		Sustainability”	Technology YMCA Faridabad.		
		One day Webinar on “Sustainability and our role in achieving SDGs	Institution’s Innovation Council, J.C. Bose University of Science and Technology YMCA Faridabad.	28.02.2022	
		One day online Training Course on Mendley	Amity University Gwalior	05.02.2022	05.02.2022
		STP on Bio privileged and Sustainable Chemistry	Dept. of Chemistry, manav Rachna University, Faridabad	17.01.2022	21.01.2022
		National Workshop on “Research: Lab to Publications”	Department of Chemistry, Research & Development Section, J.C. Bose University of Science & Technology, YMCA, Faridabad; American Chemical Society (ACS) and Vigyan Bharti Haryana (Faridabad Unit)	28.08.2021	28.08.2021

**18. INVITED TALKS/LECTURES DELIVERED BY FACULTY MEMBERS (01/07/2021 TO 30/06/2022)**

Sr. No.	Name of Faculty	Topic	Venue	Date
1.	Dr. Renuka Gupta	Expert talk on “Environment and Sustainability”	“National Youth Parliament 2022” at Manav Rachna International University, Faridabad	15 April, 2022
2.	Dr. Somvir Bajar	Expert Talk on the topic “Natural Resource Potential in Haryana”	Haryana Institute of Public Administration (HIPA)	May 11, 2022



		Expert Talk on the topic “Air Pollution: Cause and Consequences”	Haryana Institute of Public Administration (HIPA)	1. March 08, 2022; 2. March 03, 2022; 3. February 24, 2022; 4. February 22, 2022; 5. February 17, 2022; 6. February 15, 2022; 7. February 10, 2022; 8. February 08, 2022; 9. February 03, 2022; 10. February 01, 2022; 11. January 27, 2022; 12. January 25, 2022; 13. January 21, 2022; 14. January 18, 2022; 15. January 14, 2022; 16. January 11, 2022
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**19. FACULTY SERVING IN STATE/NATIONAL INTERNATIONAL COMMITTEE, EDITORIAL BOARDS ETC. (01/07/2021 TO 30/06/2022)**

Sr. No.	Name of Faculty	Details
1.	Dr Renuka	1. <b>Member</b> , research and development Sub-committee, commission of Air Quality Management in NCR and Adjoining Region, MoEFCC, Govt. Of India.
2.	Dr Navish Kataria	2. <b>Review Editor</b> in the editorial board of Frontiers in Environmental Chemistry (Section: Sorption Technologies) in Frontiers journal. 3. <b>Leading Guest editor:</b> Special issue published in <i>Environmental Science and Pollution Research</i> (Springer Journal) IF- 5.2.

**20. DETAILS OF STUDENTS QUALIFYING COMPETITIVE EXAMS (GATE/CAT/ OTHER EXAM ETC) (01/07/2021 TO 30/06/2022)**

Sr. No.	Name of Exam	Name of Student	Exam Roll Number	Ranking/Score
1.	UGC-NET/JRF	Divya Bhushan	HR03000615	NET and JRF
2.	UGC-NET/JRF	Drishti Sharma	DL01609633	NET and JRF
3.	UGC-NET/JRF	Priyanka Chauhan	DL01610289	NET only
4	UGC-NET/JRF	Kiran Swami	DL01612126	NET only
5	UGC-NET/JRF	Naresh	DL01612141	NET and JRF





## 21. TRAINING PROGRAMMES HELD FOR STUDENTS DURING THE YEAR

Date	Name of Activity	Number of Participants
07.09.2020 to 16.09.2020	Value-Added Course on “Green Technologies & Environmental Sustainability	70
22.02.2021 to 26.02.2021	Value Added Course- ‘Analytical Tools and Techniques in Environmental Research	65
08.03.2021	Hands-on Workshop on MP-AES	20
16.05.2022	Hands-on Workshop on Kjeldahl Nitrogen Assembly	40
30.05.2022	Hands-on Workshop on Water & Soil Analysis	45
30.05.2022	Hands-on Training on Air Quality Analysis Instruments	45

## 22. ANY OTHER TRAINING PROGRAMMES HELD FOR FACULTY AND STAFF (FOR CAPACITY BUILDING)

Date	Name of Activity	Name of Participants
07.09.2020 to 12.09.2020	One-Week Online Faculty Development Programme on “Green Technologies & Environmental Sustainability	All Faculty Members
7.3.2022 to 12.3.2022	AICTE sponsored One week online STTP on “Recent Advances in Technologies for Environmental Sustainability”	All Faculty Members

## 23. SPONSORED R&D PROJECTS IN-HAND

Sr. No.	Name of Principal Investigator	Title of Research Project	Funding Agency	Duration	Year of Allotment	Amount (Rs.)
1.	Dr Somvir Bajar	Leachate Characterization and Assessment of its Impact on Groundwater Quality in the surroundings of Bandwari Landfill site	Seed Grant (JC Bose University)	2021-2023	2021	2 Lakh



2.	Dr. Navish Kataria	Preparation of Green Nanomaterials for the removal of emerging contaminants (phenol and Bisphenol -A) from water	Seed Grant (JC Bose University)	2021-2023	2021	2 Lakh
3.	Dr. Navish Kataria	Development of eco-friendly nanomaterials for the removal of pharmaceuticals from water stream	UGC, New Delhi	2021-2024	2021	10 Lakhs

**24. CONSULTANCY PROJECTS IN-HAND**

Sr. No.	Name of Principal Consultant	Name of the Project	Funding Agency	Duration	Year of Allotment	Amount (Rs.)
1.	Dr. Somvir Bajar	Assessment of ETP at the industry premises	M/s Kaushik Textiles	01 year	2021	<b>25,000</b>
2.	Dr. Somvir Bajar	Assessment of ETP at the industry premises	M/s Electrosark, Gurugram	01 year	2022	<b>50,000</b>

**25. INTERNAL REVENUE GENERATED**

Sr. No.	Name of Principal Consultant	Name of the Project	Funding Agency	Duration	Year of Allotment	Amount (Rs.)
1.	Dr. Somvir Bajar	Assessment of ETP at the industry premises	M/s Kaushik Textiles	01 year	2021	<b>25,000</b>
2.	Dr. Somvir Bajar	Assessment of ETP at the industry premises	M/s Electrosark, Gurugram	01 year	2022	<b>50,000</b>
3.	Dr. Somvir Bajar	Assessment of ETP at the industry premises	M/s Jindal Spinning Mills Pvt. Ltd, Panipat	06 months	2022	<b>50,000</b>

**26. WHETHER MENTOR/MENTEE MEETING HELD REGULARLY:**

YES

**27. PATENT PUBLISHED /AWARDED DURING THE YEAR**

Sr. No.	Name of faculty member	Title of Patent	Date of Award/ Publication
1.	Nil	Nil	Nil

**28. AWARDS/PRIZES WON BY FACULTY DURING THE YEAR**

Sr. No.	Title of the Award	Name of the Awardee	Awarding Agency	State/National/ International
1.	<b>World's Top 2% Scientists List</b>	Dr Smita	US-based Stanford University.	International
2.	Academic Achievement Ward	Dr. Navish Kataria	JC Bose University, YMCA	----



### 29. AWARDS/PRIZES WON BY STUDENTS DURING THE YEAR

Sr. No.	Title of the Award	Name of the Awardee	Awarding Agency	State/National/ International
1.	UGC - Junior Research Fellowship	Ms Anshul Tyagi	UGC, New Delhi	National
2.	UGC - Junior Research Fellowship	Ms Kavita Yadav	UGC, New Delhi	National
3.	Best paper award for paper	Mrs. Monika Mago	National Conference Organized by JC Bose University, Faridabad	National

### 30. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES

The department is well equipped with the following facilities:

Sr. No.	Facility	Existing	Added*
1.	Labs	01	02
2.	Workshops	Nil	Nil
3.	Lecture Halls	Nil	03
4.	Smart Classroom	Nil	00
5.	Conference Room	Nil	Nil
6.	Seminar Halls/Projector Rooms/Research Lab	01	Nil
7.	Internet Connection	03	Nil
8.	LCD /LED	Nil	Nil
9.	ICT (Projector/OHP/Interactive Board)	01	Nil
10.	Any Other Facility	Nil	01 (Research Lab)  01 (Advanced Instrumentation Lab)



<p>EVS Laboratory details</p>	
<p>1) Water and Soil Analysis Lab:</p>	
<p>Total Cost of research equipment's: 10 Lakh</p>	
<p>Details of equipment: 1) pH meter, EC meter, Flame photometer, UV-VIS Spectrophotometer, incubator shaker, Muffle Furnace, Distillation Unit etc.</p>	
<p>2) Air Quality Analysis Lab:</p>	
<p>Total Cost of research equipment's: 30 Lakh</p>	
<p>Details of equipment: Aerosol Monitor (01), Stack emission monitoring Kit (01), Indoor Air sampler (02), Double Distillation Assembly, VOC Analysis, BOB Calorimeter, Respirable dust Sampler (RDS) Distillation Unit etc.</p>	
<p>3) Water Research Lab</p>	
<p>Total Cost of research equipment's: 45 Lakh</p>	



<p>Details of equipment: pH meter, EC meter, Orbital Shaker, Magnetic stirrer, UV-VIS Spectrophotometer, MP-AES, Orbital Shaker, Centrifuge Machine, Sonicator etc.</p>	
<p>4) Advanced Instrumentation and Research Lab</p>	
<p>Total Cost of research equipment's: 25 Lakh</p>	
<p>Details of equipment: Orbital Shaker, Magnetic stirrer, UV-VIS Spectrophotometer (Double beam), Analytical balance, Kjeldahl Nitrogen Assembly, Uranium Analyser etc.</p>	

**Development of Horticulture Centre at university including Herbal Garden, Composting Unit, Vegetable Garden and University Nursery:**

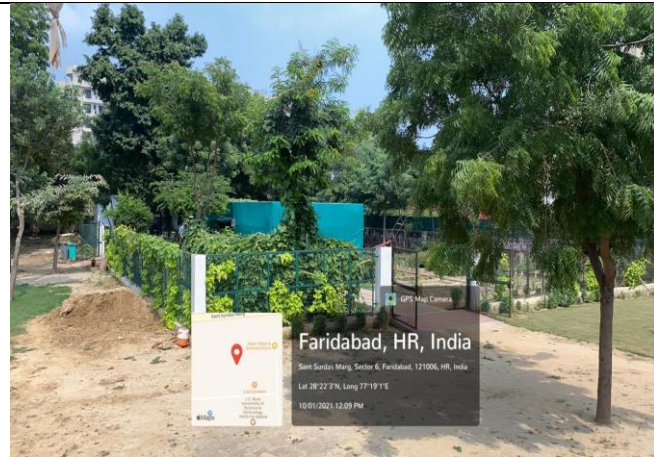
Approx. cost - 10 Lakh

1. Greenhouse: A Greenhouse has been developed to provide an ideal environment to learn about a variety of plant species including herbal, medicinal, succulents and xerophytes. The greenhouse provides a system for plant collection that serves the students, faculty and staff in the university for academic and research purposes. It helps the research scholars, undergraduate and postgraduate students for smooth running of the plant-based experiments. As of now, there are about 100 different plant species in Greenhouse.
2. Herbal Garden: University has a rich variety of herbal plants and trees. A herbal Garden containing medicinal plants and herbs of importance have been maintained at the Horticulture Centre of the university. The students and staff benefit from the herbal plants available as and when required.
3. Composting Unit: The green waste generated at campus is converted into compost by an in-house built NADEP composting unit. The unit converts the green waste, viz., leaf litter, twigs, weeds, etc. generated throughout the year at the university campus into compost. This compost is utilized for gardening and horticulture purposes within the campus. Use of compost reduces the need for chemical fertilizers. The horticulture team of the university is trained to manage the entire process full time.
4. Vegetable Garden: A small vegetable garden has also been developed. Here different vegetables are grown on



seasonal basis.

5. University Nursery: A small Plant Nursery has also been developed to cater the requirements of residential campus and office area. Different ornamental, flowering and seasonal plant saplings are prepared for placement in campus premises.



**31. EXPENDITURE INCURRED ON ACADEMIC SUPPORT FACILITIES DURING THE YEAR**

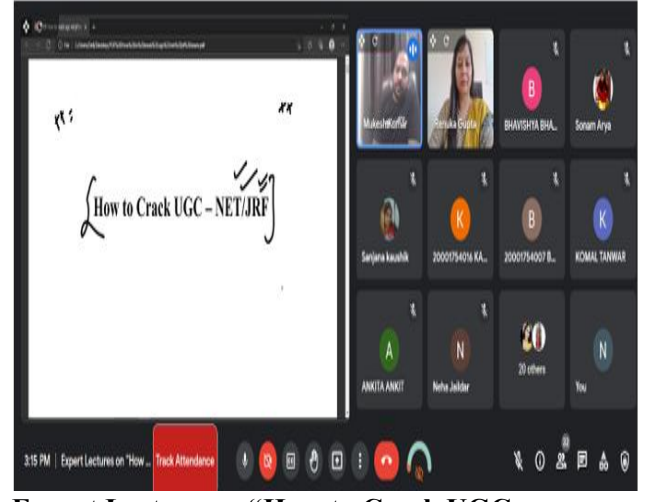
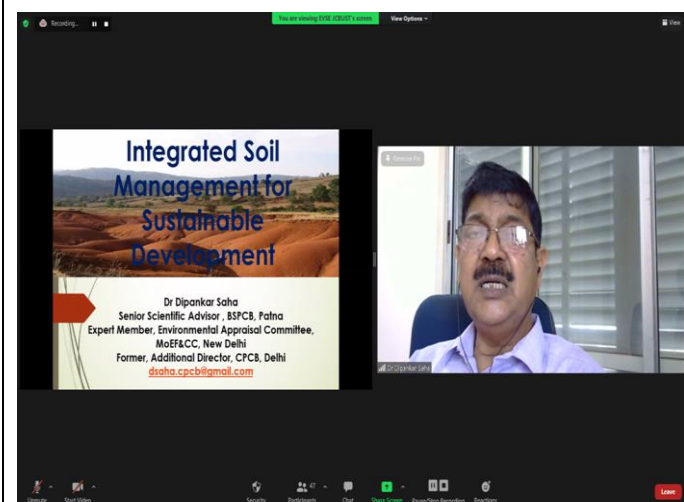
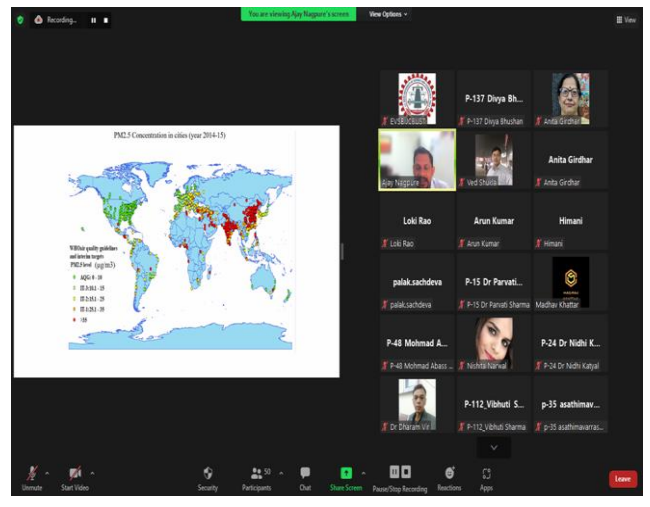
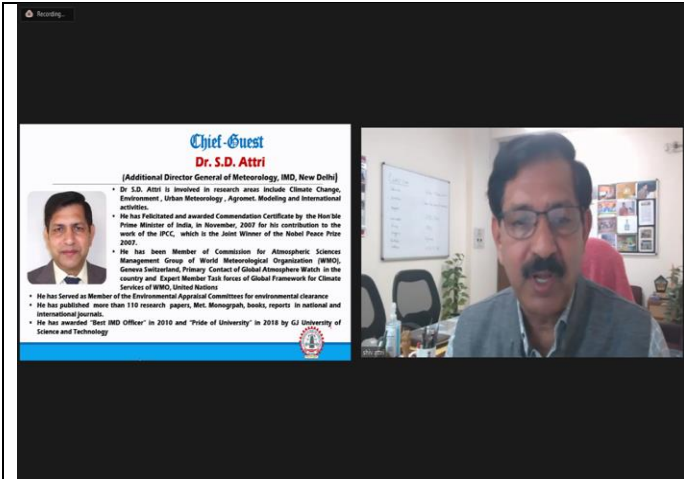


<b>Sr. No.</b>	<b>Name of item procured</b>	<b>Academic Utility</b>	<b>Approx. Cost (In lakh)</b>
1.	Kjeldahl Nitrogen Assembly	Total Nitrogen estimation.	325000
2.	UV-Vis Spectrophotometer.	Experimental Analysis	853000
3.	Orbital Shaker	Biological sample preparation	285000
4.	Double Distillation unit	Standard Solution preparation and EVS Lab experiments	162000
5.	Aerosol Monitor	Air Sampling	223713
6.	Stack emission monitoring Kit	Air quality Analysis	151875
7.	Indoor Air sampler	Air quality Analysis	70140
8.	Analytical Weighing Balance	Weight measurement and lab experiment	140000
Total			2210728

**32. DETAIL OF PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE DEPARTMENT (01/07/2021 TO 30/06/2022)**







Webinar on “International Day of Clean Air for Blue Skies” on theme “Healthy Air, Healthy Planet” held

Expert Lecture on “How to Crack UGC-



on 7th September, 2021

NET/JRF” held on 28th February, 2022









**J.C. BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, YMCA, FARIDABAD**  
 (NAAC 'A' GRADE ACCREDITED HARYANA STATE GOVT. UNIVERSITY)

VASUNDHARA ECO-CLUB

Congratulates !

**Neetu**  
(B.Sc. Chemistry)

**Bhawna Sharma**  
(M.Sc. EVS)

**Sarvesh**  
(M.Sc. EVS)

**Bhawna Jakhar**  
(M.Sc. EVS)

For successfully completing Social Internship Program (SIP), August, 2021  
Organized by Paryavaran Sanrakshan Gatividhi Organization

@vasundhara\_eco\_club\_ymca
 @Vasundhara Eco Club - YMCA

**J. C. Bose University of Science and Technology, YMCA, Faridabad**  
 (NAAC 'A' GRADE ACCREDITED HARYANA STATE GOVT. UNIVERSITY)

Vasundhara Eco-Club

Congratulates !

Winners of "ONE WEEK FOR NATION" (15 - 22 August 2021)  
**"LET'S CLEAN, LET'S RECYCLE COMPETITION"**

★★★  
**TANISHKA (2)**  
THE MILLENIUM SCHOOL

★★★  
**BHAVESH (1)**  
MODERN DPS

★★★  
**DEVRAJ (3)**  
LALA JAGDISH PRASAD SARASWATI VIDYA MANDIR INTER COLLEGE

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 @Vasundhara Eco Club YMCA

**J. C. Bose University of Science and Technology, YMCA, Faridabad**  
 (NAAC 'A' GRADE ACCREDITED HARYANA STATE GOVT. UNIVERSITY)

Vasundhara Eco-Club

Congratulates !

Winners of "ONE WEEK FOR NATION" (15 - 22 August 2021)  
**"30 SECONDS ON FRAME COMPETITION"**

★★★  
**RATNA (2)**

★★★  
**NIKUNJ (1)**  
GRAND COLUMBUS INTERNATIONAL SCHOOL

★★★  
**TANISHKA (3)**  
GOVT. GIRLS COLLEGE, GURUGRAM

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 @Vasundhara Eco Club YMCA

**J. C. Bose University of Science and Technology, YMCA, Faridabad**  
 (NAAC 'A' GRADE ACCREDITED HARYANA STATE GOVT. UNIVERSITY)

Vasundhara Eco-Club

Congratulates !

Best Performers of "ONE WEEK FOR NATION" (15 - 22 August 2021)  
**"TONGUE TWISTER CHALLENGE"**

★★★  
**NADIRSHA P. S. NAWAB**  
CENTRAL UNIVERSITY OF KERALA

★★★  
**TRINA**  
CENTRAL UNIVERSITY OF JHARKHAND

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 @Vasundhara Eco-Club YMCA

**J.C. Bose University of Science of Technology, YMCA, Faridabad**  
 (NAAC 'A' Grade Accredited Haryana State Govt. University)

NATIONAL ENVIRONMENT YOUTH PARLIAMENT-2022

Congratulations !

Winner of Regional Level Competition (Delhi & Haryana)

**Prinshila**  
(M.Sc. Environmental Sciences)

for selection into National Level Grand Finale to be held on 27th Feb 2022 in Parliament House, New Delhi by Paryavaran Sanrakshan Gatividhi Organization.

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**J. C. Bose University of Science and Technology, YMCA, Faridabad**  
 (NAAC 'A' GRADE ACCREDITED HARYANA STATE GOVT. UNIVERSITY)

Vasundhara Eco-Club

Congratulates !

Winners of "ONE WEEK FOR NATION" (15 - 22 August 2021)  
**"SNAPSHOT COMPETITION"**

★★★  
**ANJALI (2)**  
J. C. BOSE UNIVERSITY

★★★  
**HARSHITA (1)**  
ARAVALI INTERNATIONAL SCHOOL

★★★  
**AMIR (3)**  
OSH STATE UNIVERSITY

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 @Vasundhara Eco-Club YMCA





### 33. BRIEF DETAILS ABOUT THE ACTIVITY

- [EVS 2021 22 Expert lecture E-Waste Management- 2022](#)
- [EVS\\_2021\\_22 International Earth Day Celebration- 2022](#)
- [EVS 2021 22 Workshop on “Career Opportunities in Envir. Sciences”- 2022](#)
- [EVS 2021 22 Expert Lecture on "How to Crack UGC-NET/JRF -2022](#)
- [EVS 2021 22 One Week STTP RATES - 2022](#)
- [EVS 2021 22 Tulsi Plant Distribution - 2021](#)
- [EVS 2021 22 International Day of Clean Air for Blue Skies -2021](#)



**FACULTY OF LIBERAL ARTS AND MEDIA  
STUDIES (FLAMS)**



## DEPARTMENT OF COMMUNICATION AND MEDIA TECHNOLOGY







## DEPARTMENT OF COMMUNICATION AND MEDIA TECHNOLOGY

### 1. INTRODUCTION

CMT Department has modern facilities like Language and media labs and apt/latest equipment to teach all the practical aspects of the course. Also, a dedicated teaching and technical staff to support the academic programs and research.

- The Journalism and Mass Communication program is a comprehensive program including Social Media, Print Journalism, Broadcast Journalism, A-V Program Production, Media Management, Public Relations, Advertising, Media Research, and much more. All these subjects are much more practical than theoretical which makes Journalism and Mass communication courses different from conventional ones.
- Animation & Multimedia program provides a solid foundation in core Graphics, Visual effects, animation and Multimedia, Creative Visualization and animation and visual effects film production skills. Through the academic program, students also develop excellent written and oral communication skills; learn to work as a team and project management.

### 2. DEPARTMENT VISION

J.C. Bose University of Science and Technology, YMCA Faridabad aspires to be a nationally and internationally acclaimed leader in technical and higher education in all spheres which transforms the life of students through integration of teaching, research and character building.”

### 3. DEPARTMENT MISSION

- To contribute to the development of science and technology by synthesizing teaching, research and creative activities.
- To provide an enviable research environment and state-of-the art technological exposure to its scholars.
- To develop human potential to its fullest extent and make them emerge as world class leaders in their professions and enthuse them towards their social responsibilities

FACULTY AND DEPARTMENT		
	Name	Tenure
Dean of Faculty:	Prof. (Dr.) Atul Mishra	20.05.2020 to till date
Chairperson of the	Prof. (Dr.) Atul Mishra	01.0.5.2019 to 10.05.2022



<b>Department:</b>		
<b>Chairperson of the Department:</b>	Dr. Pawan Singh	11.04.2022 to till date

#### 4. DEPARTMENT HIGHLIGHTS

Courses offered	Existing	Newly added
<b>UG Course</b>	BAJMC (Journalism and Mass Communication) B.Sc. (Animation & Multimedia)	Bachelor of Social Work (BSW)
<b>PG Course</b>	MAJMC (Journalism and Mass Communication) M.Sc. (Animation & Multimedia)	NIL
<b>PhD</b>	Journalism and Mass Communication	NIL
<b>Others</b>	NIL	NIL

Sr. No.	Course Details	Intake
1.	BAJMC (Journalism and Mass Communication)	45
2.	MAJMC (Journalism and Mass Communication)	25
3.	B.Sc. Animation & Multimedia	35
4.	M.Sc. Animation & Multimedia	20
5.	Bachelor of Social Work (BSW)	45
6.	Ph.D. Journalism and Mass Communication	As per ordinance



## 5. FACULTY DETAILS

Sr. No.	Professor	Associate Professor	Assistant Professor	Guest Faculty	Total
Male	0	1	8	3	12
Female	0	0	2		2
Total	0	1	10	3	14

## 6. FACULTY PROFILE

Sr. No.	Name & Designation	0	Total Experience	Publication			Book/Chapter
				SCI/SCIE	SCOPUS	UGC Approved Care/Refer red	
1.	Dr. Pawan Singh (Associate Professor)	Ph.D, NET. M.Phil (Communication & Social Media)	18 Years		2	25	4 Book/ 5 Chapter
2.	Ms. Alka Rawat (Assistant Professor)	MA, NET, PhD Scholars Communications, AD & PR	6 Years in Academics and 4 Years in Industry				2 book chapter MOOC on Advertising and Public Relations
3.	Dr. Sonia Hooda (Assistant Professor)	MA, MPhil, PhD Communications and Print Media	8 Years			5	1 Book Chapter
4.	Dr. Taruna Narula (Assistant Professor)	MA, PhD Print Media	7 Years in academics and 2 in Industry			6	1 Book Chapter
5.	Dr. Subhash	PH.D,	15 years			6	1 Book



	Goel (Assistant Professor)	M.PHIL (Electronic Media & Media Research)					Chapter
6.	Dr. Rahul Arya (Assistant Professor)	Ph.D., NET	5 Years			5	
7.	Dr. Sudhir Kumar (Assistant Professor)	Ph.D., NET	5 Years			5	
8.	Dr. Bharat Dhiman (Assistant Professor)	Ph.D., NET	7 Years		10	30	7
9.	Dr. Akhilesh Tripathi (Assistant Professor)	Ph.D., NET	2 Years			5	
10.	Dr. KM Tabish (Assistant Professor)	Ph.D., NET	2 Years			5	
11.	Mr. Aditya Kumar (Assistant Professor)	M.Sc. Multimedia Technology & Visual Effects and Film Making	7 Years				
12.	Mr. Arko Dey	MFA and	6 Years				



	(Assistant Professor)	2D Animation					
13.	Rajiv Ranjan (Senior Animator)	M.Sc. Animation	11 Years				
14.	Dr. Nikhilesh Sharma (Assistant Professor)	Ph.D.	7 Years			<b>10</b>	
15.	Mr. Rahul (Assistant Professor)	MSW, NET					

**7. NON-TEACHING STAFF**

Sr. No.	Name and Designation	Qualification	Date of Joining
1.	Mr. Ramras Pal Singh, Production Assistant	PGDJ, MA	30-07-2018
2.	Mr. Dushyant Tyagi, Instructor	PGDJMC, MA	16 – 08-2016
3.	Sangeeta Thakur, Instructor	Diploma in Commercial arts, Bachelor in Fine Arts	30.08.2018
4.	Rashika Chand, Instructor	B.Sc. Animation & Multimedia (honours)	30.08.2018
5.	Mr. Pankaj Saini, Production Assistant	Msc. Mass Communication	02-12-2022

**8. DETAILS OF NEWLY JOINED FACULTY MEMBERS DURING THE YEAR**

Sr. No.	Facility Name	Designation & Qualification	Date of Joining
2.	Dr. Bharat Dhiman	Assistant Professor	21-10-2021
3.	Dr. Rahul Arya	Assistant Professor	18-10-2021
4.	Dr. Sudhir Kumar	Assistant Professor	25-10-2021



### 9. DEPARTMENTAL PUBLICATIONS & FDP/STC/WORKSHOP(01/07/2021 - 30/06/2022)

Sr. No.	Particular	Count
1.	Publications in International Journals	25
2.	Publications in National Journals	5
3.	Publications in International Conferences	0
4.	Publications in National conferences	0
5.	Workshop	3
6.	STC/FDP	0

### 10. PAPER PUBLISHED IN INTERNATIONAL AND NATIONAL JOURNALS (01/07/2021 - 30/06/2022)

Sr. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
1.	Dr. Pawan Singh	Malik, P. S. (2021). Chunavon ke dauran rajniti k dalo ke social media campaign kayuvaon par prabhav kaa dhyyan. Janmat Power, 6(1).
2.	Dr. Pawan Singh	Content Analysis of BBC Sherlock with special reference to portrayal of Sherlock in the series. International Journal of Communication Studies, 3(1).
3.	Dr. Pawan Singh	Malik, P. S. (2022). Psychosocial Impact of Web Series and Streaming Content: A Study on Indian Youth. Global Media Journal, 19(46:281), 1–7.
4.	Dr. Pawan Singh	Psychosocial Impact of Web Series and Streaming Content: A Study on Indian Youth, Global Media Journal, (Google Scholar h5 index: 7, (ISSN-1550-7521), Vol.19 No.46:281(DEC 2021)
5	Dr. Pawan Singh	Condition of Women Prisoners in Model Jail, Chandigarh: A Communication Study, International Journal of Psychosocial Rehabilitation (Scopus Indexed)
6.	Dr. Bharat Dhiman	Science Communication in India: Current Trends and Future Vision, ISSN: 2755-0109, Volume 4, Issue 5 (2022)DOI: doi.org/10.47363/JMM/2022(4)144
7.	Dr. Bharat Dhiman	Social Media exposure and Psychological problems during COVID-19 outbreak: A cross-sectional study, International Journal of Psychosocial Rehabilitation (Scopus Indexed) Publisher- Hampstead Psychological Associates, (ISSN – 1475-7192), Vol. 25, Issue 02, 2021 DOI: 10.37200/V25I2/39009
8.	Dr. Bharat Dhiman	Use of E-Resources by Research Scholars of Kurukshetra University: A Case Study, International Journal of Interdisciplinary Organizational Studies (Scopus Indexed) Creative Commons Attribution 4.0 License, (ISSN- 2324-7657), Vol. 16, Issue 04, 2021



9.	Dr. Bharat Dhiman	Impact of Smartphone: A Review on Negative Effects on Students, PalArch's Journal of Archaeology of Egypt/ Egyptology (Scopus Indexed), Publisher-Elsevier BV, (ISSN- 1567-214X), VOL. 18 NO. 4 (2021)
10.	Dr. Bharat Dhiman	Ecosystem Degradation and the Need for Restoration: Through the Lens of Environment and Human Health, Environment Pollution and Climate Change, Heathrow Stockley Park Lakeside House 1 Furzeground Heathrow, USA, ISSN: 2573-458X, vOL. 6, iSSUE 10, 2022
11	Dr. Bharat Dhiman	Awareness of MOOCs among Students: A Study of Kurukshetra University, International Journal of Interdisciplinary Organizational Studies, (Scopus Indexed) Creative Commons Attribution 4.0 License, (ISSN- 2324-7657), Vol. 16, Issue 01, 2021
12.	Dr. Bharat Dhiman	The Practice of Media Education and Media Research: A Review on Five Asian Countries, Global Media Journal, (Google Scholar h5 index: 7, (ISSN-1550-7521), Vol.19 No.44:270(OCT 2021)
13.	Dr. Bharat Dhiman	Newspaper Reading Habits among UG and PG Students of Kurukshetra University: A Case Study, International Journal of Interdisciplinary Organizational Studies, (Scopus Indexed) Creative Commons Attribution 4.0 License, (ISSN- 2324-7657), Vol. 16, Issue 03, 2021
14.	Dr. Bharat Dhiman	Psychosocial Impact of Web Series and Streaming Content: A Study on Indian Youth, Global Media Journal, (Google Scholar h5 index: 7, (ISSN-1550-7521), Vol.19 No.46:281(DEC 2021)
15.	Dr. Bharat Dhiman	Condition of Women Prisoners in Model Jail, Chandigarh: A Communication Study, International Journal of Psychosocial Rehabilitation (Scopus Indexed) Publisher- Hampstead Psychological Associates, (ISSN – 1475-7192), Vol. 26, Issue 01(January), 2022, DOI: 10.37200/V26I1/39007
16.	Dr. Taruna Narula	Covid 19 – Usage of E- learning Applications (apps) by students of Higher Education for Professional Development”, Pramana International Journal
17.	Dr. Subhash Chand Goel	The Impact of E-Learning on Media-Technical education in India during COVID-19, Journal of education: Rabindra Bharti University
18.	Dr. Subhash Chand Goel	Socio-economic responses to COVID-19: A study of Delhi-NCR, Kala sarovar
19.	Dr. Subhash Chand Goel	Media me Nagrik Patrakarita ke liye avsar, Citizen Journalism
20.	Dr. Subhash Chand Goel	Bharat me E-Shikshan: Sanskritik mulyo ka sanrakshantmak sandarbh, ShodhDhar



21.	Dr. Sudhir Kumar	Media Habits of University Going Students: A Study With Reference to Haryana, Kala Sarover
22.	Dr. Sudhir Kumar	The News is Either Restricted or Excessively Political: A perception Study of People of Delhi, Elementary Education Online
23.	Dr. Rahul Arya	Principles of effective communication on the use of contraceptives, Kalyan
24.	Dr. Rahul Arya	Advertising in the age of new media, Shodhsa
25.	Dr. Akhilesh Tripathi	भारतीयसमाजकार्यमेराष्ट्रीयसेवाभारतीकायोगदान, अक्षरवार्ता (अवदानविशेषांक)
26.	Dr. Sonia Hooda	Language No Bar in Hindi Soap Opera- a Study, Communication Today
27.	Dr. Subhash Goel	India amid the COVID-19, Journal of Oriental Research, Madras

### 11. WORKSHOP/STC/INVITED TALKS/WEBINAR/OTHER ACTIVITIES CONDUCTED

(01/07/2021- 30/06/2022)

Sr. No.	Name of Activity	Title	In collaboration with (if any)	Dates	Name of Coordinator
1.	Expert Lecture	Expert Lecture on Filmmaking	NA	20.07.2021	Dr. Pawan Singh
2.	Expert Lecture	Expert Lecture on Public Relations	NA	22.12.2021	Dr. Pawan Singh
3.	Expert Lecture	Expert Lecture on Social Work	NA	23.12.2021	Dr. Pawan Singh
4.	National Workshop	How industry use on Adobe Photoshop	NA	09-02-2022	Dr. Pawan Singh
5.	Expert Lecture	Expert Lecture on Soft Skills	NA	02.02.2022	Dr. Pawan Singh
6.	Master Class	Two Days Master Classes/ Expert Lecture	NA	06.04.2022 to 07.04. 2022	Dr. Pawan Singh
7.	Expert Lecture	Expert Lecture on Social Work	NA	12.4.2022	Dr. Pawan Singh
8.	Expert Lecture	Expert Lecture on Print Media	NA	19.4.2022	Dr. Pawan Singh

### 12. STC/FDP/WORKSHOP/ SYMPOSIA/ WORKSHOP ATTENDED BY FACULTY MEMBERS(01/07/2021 TO 30/06/2022)





Sr. No.	Name of Faculty	Name of STC/ FDP	Organized by	Date	
				From	To
1.	Dr. Pawan Singh	FDP on Work Life Balance for Technocrats	J.C. Bose University of Science and Technology YMCA, Faridabad	20.05.2022	24.05.2022
2.	Dr. Sudhir Kumar	One week FDP	Delhi Metropolitan College	25.10.2021	31.10.2021
3.	Dr. Akhilesh Tripathi	FDP on Research Methodology	R. N. T. U. Raisen , M. P.	09.05.2022	15.05.2022
4.	Dr. Akhilesh Tripathi	FDP on Work Life Balance for Technocrats	J C Bose University of Science and Technology	20.05.22	24.05.2022
5.	Dr. K M Tabish	Training of Trainers	Delhi University & TISS	23.08.2022	27.08.2022
6.	Dr. Sonia Hooda	Gender sensitization and women empowerment	FDP Centre MDU Rohtak	08.12.2021	13.12.2021
7.	Dr. Sonia Hooda	Work Life Balance STTP	J.C.Bose University of Science and Technology YMCA, Faridabad	20.05.2022	24.05.2022
8.	Dr. Sonia Hooda	Latest Trends in the Research in the field of Languages	Ravindra Nath Tagore university	21.09.2021	27.09.2021



9.	Dr. Taruna Narula	Online Short Term Course on Research Methodology	CPDHE, University of Delhi	14.1.2022	20.1.2022
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**13. INVITED TALKS/LECTURES DELIVERED BY FACULTY MEMBERS (01/07/2021 - 30/06/2022)**

Sr. No.	Name of Faculty	Topic	Venue	Date
1.	Dr. Pawan Singh	Trends in Film Making	Haryana Kalakriti Bhawan, Kurukshetra	18 <sup>th</sup> May 2022 to 22 <sup>th</sup> May 2022

**14. FACULTY SERVING IN STATE/NATIONAL/INTERNATIONAL COMMITTEES, EDITORIAL BOARDS ETC. (01/07/2021 – 30/06/2022)**

Sr. No.	Name of Faculty	Details
1.	Dr. Pawan Singh	Member of Meritorious Faculty Team, Haryana State Higher Education Council, Panchkula
2.	Dr. Taruna Narula	Reviewer for the Journal of Mass communication from the Department of Mass Communication, University of Karachi

**15. ANY OTHER TRAINING PROGRAMMES HELD FOR FACULTY AND STAFF (FOR CAPACITY BUILDING)**

Date	Name of Activity	Name of Participants
(01/07/2021 TO 30/06/2022)	Weekly Lecture Series	Dr. Pawan Singh, Dr. Taruna Narula, Dr. Sonia Hooda, Dr. Subhash Goel, Mr. Aditya, Mr. Rajiv Ranjan

**16. WHETHER MENTOR/MENTEE MEETING HELD REGULARLY : YES**



**17. AWARDS/PRIZES WON BY FACULTY DURING THE YEAR**

Sr. No.	Title of the Award	Name of the Awardee	Awarding Agency	State/National/ International
1.	Hindi Sewa Samaan 2022	Dr. Pawan Singh	Prabhasakshi	National
2.	Awarded Post Doctoral Fellowship 2021-2022	Dr. Bharat Dhiman	ICSSR, New Delhi	National

**18. OUTSTANDING ACHIEVEMENTS 2021-2022**

1. राष्ट्र नायकों को नमन श्रृंखला का शुभारंभ (11 Months, 44 Weeks)
2. Department conducted Orientation Program on 25<sup>th</sup> and 26<sup>th</sup> Nov 2021
3. Department conducted Newspaper Exhibition on 28-4-2022
4. Department conducted Media Portfolio Exhibition on 29-4-2022
5. Department conducted Science- Short Film Competition on 28<sup>th</sup> and 29<sup>th</sup> April 2022
6. Department started In house Programms for TV Production and Audio Production

**19. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES**

The department is well equipped with the following facilities:

Sr. No.	Facility	Existing	Added*
1.	Labs	3	1
2.	Workshops	NA	NA
3.	Lecture Halls	NA	NA
4.	Smart Classroom	1	NA
5.	Conference Room	NA	NA
6.	Seminar Halls/Projector Rooms/Research Lab	NA	NA
7.	Internet Connection	Yes	Yes
8.	LCD /LED	2	NA
9.	ICT (Projector/OHP/Interactive Board)	3	NA
10.	Any Other Facility	NA	NA



**The Communication & Media Technology has developed Media Lab for BAJMC Students for hands-on training**

<p>1. Introduction of lab (50 words)</p> <p>To fulfill the practical demand of the Journalism course, the department of Communication and Media Technology has established a new media labs which has 35 workstations and 3 Apple Mac.</p> <p>1 Apple Mac is used by Animation Dep.</p>	<p style="text-align: center;">Photo of Lab</p>
<p>2. Laboratory/Project Coordinator:</p> <p style="text-align: center;">Dr. Taruna Narula &amp; Ms. Alka Rawat</p>	
<p>3. Total Cost of research equipments:</p> <p style="text-align: center;">70 Lakhs Approx.</p>	
<p>4. Details of equipments:</p> <ul style="list-style-type: none"> <li>• 35 HP-Desktop Computer (B.A.)</li> <li>• 3 I-Mac Computer</li> </ul>	
<p>5. Benefit to students/researchers: Students will learn various software and do practical training with the help of faculty guidance at the university.</p>	

**The Department has developed a State-of-Art the Maharishi Narad Centre of Media Research**

<p>1. Introduction of Audio-Visual studio (50 words)</p> <p>The Department of Communication &amp; Media Technology is setting up a state-of-art the Maharishi Narad Centre of Media Research and Production at a cost of Rs. two (2) crore. The studio named after the Narad Muni, the first Journalist on earth and son of God Brahma's, who was well acquainted with Vedas and Puranas. The Centre will equipped with all Pre-Production, Production and Post-Production facilities namely</p>	
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<p>Audio studio, Audio-Visual Studio, Green Room, Rehearsal room, ENG Units counter and Post-Production Room wherein student can learn and record various Genre A-V programs and Radio Programs. A six member's technical staff will man the Centre for multimedia Production to handle Cameras, switchers and enlighten the young media students about various technical aspects of Studio.</p>	<p>Photo of Studio</p>
<p>2. Laboratory/Project Coordinator: Dr. Pawan Singh</p>	
<p>Total Cost of research equipments: Rs. 2,00,00,000.00 (Two Crore rupees)</p>	
<p>Details of equipments: Four Camera set-ups, Audio recording system, VO system, Post-production facilities, Dress, Make-up and Rehearsal room, etc.</p>	
<p>Benefit to students/researchers: Students can learn and record various Genre A-V programs and Radio Programs, Animation films, Dubbing, Graphics work etc.</p>	

**20. EXPENDITURE INCURRED ON ACADEMIC SUPPORT FACILITIES DURING THE YEAR**

Sr. No.	Name of item procured	Academic Utility	Cost
1.	<p>Lab for BAJMC</p> <ul style="list-style-type: none"> <li>• 40 HP-Desktop Computer</li> <li>• I-Mac Computer</li> </ul>	<p>For students to learn software and do hands-on training</p>	<p>70 Lakhs Approx.</p>
2.	<p>Cinematic Camcorders with Dolly and Zib-arm,, LEDs, Switchers, Audio Console, Mics, ENG units, Chroma, Web Radio equipments, Lighting, DMX etc.</p>	<p>To produce Digital A-V programs and live interact with students globally</p>	<p>1,25,00,000.00</p>
3.	<p>Acoustic work of Audio and A-V studio</p>	<p>Sounding proofing</p>	<p>40,00,000.00</p>
4.	<p>Aesthetic work-Permanent sets designing and Chroma</p>	<p>For Digital background in A-V films and Animation films</p>	<p>35,00,000.00</p>
5.	<p>Three ENG Units( Two Professional Camcorders, 5 Still Nikon DSLR with 70-300 mm Zoom, lights, Three lapple and handheld Mics etc.)</p>	<p>For Outdoor A-V films production</p>	<p>11,50,000.00</p>





6.	Total Expenditure	21,850,000
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**21. DETAIL OF PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE DEPARTMENT (01/07/2021 TO 30/06/2022)**



**MAHARISHI NARAD  
Centre for Media Research & Production**



**New BAJMC Lab**



**Launch of In house Newspaper Sanchar**

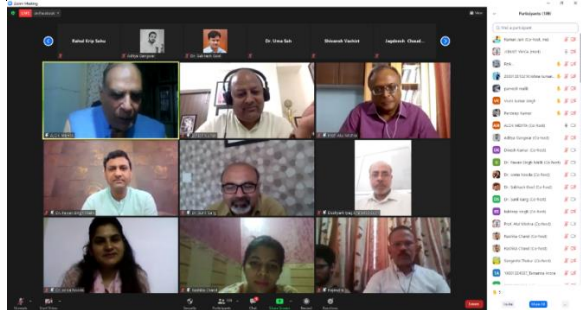


**Inauguration of In house Newspaper , Brochour**



**Media tech Porfolio Exhibition**

and Achivment Booklet of the department



**Webinar Series "Media Ki Baat Aapke Sath"**



**Lauch of Web News Bulletin**



**Beginner Workshop on Reference Management using Mendeley**



**Industrial Visit to India TV News Channel, Film City, Noida**



**मेरी पहचान हिंदी साहित्य संध्या कार्यक्रम**





Master Classes on Advertising and Public Relations



Open Mic

## 22. BRIEF DETAILS ABOUT THE ACTIVITY

1. The Union Minister of State for Power and Heavy Industries Sh. Krishan Pal Gurjar, on behalf of Chief Minister of Haryana Sh. Manohar Lal, inaugurated brand new multimedia studio with state-of-the-art equipment in our campus to provide students hands-on production experience.

2. "Media Ki Baat Aapke Sath" - Webinar Series. The JMC dept. started the webinar series for students to. In the series we invite prominent individuals from the industry and academics to interact with students of different themes/ideas. These discussions help students to develop and some of the speakers in the past were:

- Mr. Umesh Upadhyay President & Media Director, Reliance Industries Limited.
- Padam Shri Alok Mehta, senior Journalist and Ex editor outlook
- Prof. Bhagwati Prakash Sharma, Vice Chancellor, Gautam Buddha University
- Dr Sachchidanand Joshi, Hon'ble Member Secretary, (Indira Gandhi National Centre For the Arts)
- Prof. K.G Suresh, Vice chancellor, Makhanlal Chaturvedi university of Communication & Journalism, Bhopal
- Ashok Srivastava, Sr. Consultating Editor & Anchor, DD news
- Prof. KrishanKant Gupta, Principal, Aggarwal College Ballabgarh
- Dr. Savita Bhagat, Officiating Principal of D.A.V. Centenary College, Faridabad,

3. A two-day workshop on photography was organised by the Department of Communication and Media Technology, J.C. Bose University, YMCA, Faridabad on the 10th and 11th of June. During the workshop professional photographer Nitin Arora shared his experience and Knowledge in the field of photography with the attending students.





## 23. Activities Organised (01/07/2021 TO 30/06/2022)

Sr. No.	Name of Activity	Date on which the activity are conducted	Type of Activity (Seminar/Webinar/Conference (national/International)/any other event)	Time period (e.g. one day/two days/four days/weekly/fort nightly etc.)	Name of the Programme Coordinator with details	Number of Students Participated
1.	Launch In-House Newsletter (Sanchaar)	16/07/2021	Any Other Event	One	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	75
2.	Launch of Citizen Journalism Book of Dr. Pawan Singh	16/07/2021	Any Other Event	One	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	20
3.	Expert Lecture on Filmmaking	20/07/2021	Any Other Event	One	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	100
4.	Inauguration of Mahrishi Narad-Centre for Media Research & Production	17/08/2021	Any Other Event	One	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	50
5.	Foundation Day Celebrated	17/09/2021	Any Other Event	One	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	150



6.	राष्ट्र नायकों को नमन श्रृंखला का शुभारंभ	01/10/2021	Any Other Event	11 Months, 44 Weeks	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	150
7.	Launched a monthly Animation E- magazine(P ixtoon)	08/10/2021	Any Other Event	One	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	120
8.	National Press Day Celebrated	16/11/2021	Any Other Event	One	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	120
9.	Orientation Program Conducted	25 <sup>th</sup> and 26 <sup>th</sup> Nov 2021	Any Other Event	Two	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	150
10.	Poster- Making Contest on Human Rights Day	08/12/2021	Any Other Event	One	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	70
11.	Expert Lecture Conducted	22/12/2021	Any Other Event	One	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	80



12.	Expert Lecture Conducted	23/12/2021	Any Other Event	One	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	50
13.	Workshop Conducted	27/12/2021	Any Other Event	One	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	75
14.	Expert Lecture Conducted	2-2-2022	Any Other Event	One	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	75
15.	Workshop Conducted	9-2-2022	Any Other Event	One	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	100
16.	Celebration of Radio Fiesta (World Radio Day 2022)	10 <sup>th</sup> and 11 <sup>th</sup> Feb 2022	Any Other Event	Two	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	150
17.	Workshop (Creative Radio Production)	10 <sup>th</sup> Feb 2022	Any Other Event	One	Dr. Pawan Singh, Chairperson (In charge), CMT, JCBUST	120
18.	Industrial Visit to Roshni NGO	14-02-2022	Any Other Event	One	Dr. Pawan Singh, Chairperson (In charge), CMT,	20



					JCBUST	
19.	Rashtra Nayako Ko Naman (Series) Continues	23-2-2022	Any Other Event	Series	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	150
20.	Launch of Monthly In-house Sanchar Newsletter( Continues)	9-03-2022	Any Other Event	One	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	100
21.	Launch of Pixtoon Monthly E-Newsletter	10-3-2022	Any Other Event	One	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	120
22.	Workshop Conducted	15-3-2022	Any Other Event	One	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	80
23.	VC Sir Interview	25-03-2022	Any Other Event	One	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	20
24.	Two Days Master Classes/ Expert Lecture	6 <sup>th</sup> and 7 <sup>th</sup> April 2022	Any Other Event	Two	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	150



25.	Two Days Master Classes/ Expert Lecture	6 <sup>th</sup> April 2022	Any Other Event	Two	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	150
26.	Two Days Master Classes/ Expert Lecture	7 <sup>th</sup> April 2022	Any Other Event	Two	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	150
27.	Two Days Master Classes/ Expert Lecture	7 <sup>th</sup> April 2022	Any Other Event	Two	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	150
28.	Mock Press conference for Students	8-4-2022	Any Other Event	One	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	50
29.	Expert Lecture	12-4-2022	Any Other Event	One	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	120
30.	Art of Storytelling for Students	13-4-2022	Any Other Event	One	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	120
31.	Expert Lecture/Ma ster Classes	19-4-2022	Any Other Event	One	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	150



32.	Launch of Weekly News Bulletin	20-4-2022	Any Other Event	One	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	50
33.	Launch of punchline 'Ready For Tomorrow' of 'Sanchar'	21-4-2022	Any Other Event	One	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	120
34.	Product Demonstration exhibition	22-4-2022	Any Other Event	One	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	50
35.	Newspaper Exhibition	28-4-2022	Any Other Event	Two	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	180
36.	Media Portfolio Exhibition	29-4-2022	Any Other Event	One	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	50
37.	Science-Short Film Competition	28 <sup>th</sup> and 29 <sup>th</sup> April 2022	Any Other Event	Two	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	150
38.	Master Class/Expert Lecture	28-4-2022	Any Other Event	One	Dr. Pawan Singh, Chairperson( In charge), CMT, JCBUST	150



**DEPARTMENT OF  
LITERATURE AND LANGUAGES**

**1. INTRODUCTION:**

Language and Literature emerged as part of Faculty of Humanities and Sciences. The section is now a part of Faculty of Liberal Arts and Media studies that incorporates the strengths of Journalism and Mass Communication, and Animation and Multimedia.

It offers an academically stimulating atmosphere that encourages a spirit of inquiry informed by contemporary literary and socio-cultural concerns. The Masters in English programme carries a perennial appeal and has been part of universities faculties the world over. Despite temporal flux, this particular programme has prospered and been embraced by universities across the globe. The particular course offered by the university has been designed to immerse the students still deeper into the treasure house of world literature sweeping across races, geographical areas, cultures and times.

The courseware offers a vivacious spectrum of readings and literary works, blending the canonized with the marginalized. This Masters programme shall equip students to use the literary and critical skills learnt during the course for creative productions. At the same time, this programme has the unique dimension of being conscious of international corporate demands giving a sweeping exposure to the students, through a string of elective subjects, audit courses and dissertations, to skills required in the work-a-day world of professionals.

**2. DEPARTMENT VISION:**

A department with an academically stimulating atmosphere that encourages a spirit of inquiry informed by contemporary literary and socio-cultural concerns.

**3. DEPARTMENT MISSION:**

- To provide an exposure to canonized as well as marginalized literary texts.
- To introduce students to literary and critical theories and practices.
- Help them take economic, social, legal and political considerations when visualizing the role of trans-media pursuits in improving quality of life.
- To help students identify their area of interest so that they can navigate ultimately towards their area of specialization.
- To synergize the efforts of its competent faculty towards imparting intellectual confidence that aids comprehension.

<b>FACULTY AND DEPARTMENT</b>		
	<b>Name</b>	<b>Tenure</b>
<b>Dean of Faculty:</b>	<b>Professor Atul Mishra</b>	<b>May 2019-</b>
<b>Chairperson of the Departments:</b>	<b>Professor Atul Mishra</b>	<b>May 2019-</b>





## 4. DEPARTMENT HIGHLIGHTS

Courses offered	Existing	Newly added
UG Course:	Subjects taken as Foundation/ Audit/ Open Elective for various other courses: Effective Technical Communication (HSMC-101/201) as mandatory course for BTech (I) year as per AICTE guidelines; BENG-101 for first year sciences; Personality Development(OENG-301A)[Open Elective]; Soft Skills for Engineers(GA-501); Modern Science Writing and Journalism(AENG-201A)[Audit]; English for Research Paper Writing [Audit]	
PG Course:	MA English 2019 onward	Revised Syllabi as per NEP guidelines submitted to the designated Sub-Committee under the chairmanship of Dr Manjeet.
PhD	English 2015 onwards; first admission 2017 New Scholars: Two (2) Ms Prerna and Ms Anita under the supervision of Dr Divyajyoti Singh	Revised Coursework 2021; Implemented Revised Coursework Paper; Pre-submission Viva of Ms Babita Devi conducted.
Others	-	-

Sr. No.	Course details	Intake
PhD		<b>Two (2) in this session taking the total to Six(6); Total: 6</b>
MA(English)	Since 2019 (35 students)	MA (I) 26+MA (II)15=41/70
BA(English)	Approved in Principle; Revised as per NEP 2020; Not Implemented.	0

STUDENT ENROLLMENT		
	MALE	FEMALE
<b>Total</b>	<b>2</b>	<b>17</b>
UG Course	-	-
PG Course	3+2=5	23+13=36
PhD	0	6



## 5. FACULTY DETAILS

	Professor	Associate Professor	Assistant Professor	Adjunct/ Visiting Faculty	Total
Male					0
Female	-	Dr.Divyajyoti Singh	Dr. Reena Grewal Ms Mamta Bansal Ms Ankita Goel	Guest Faculty(5)	9
Total					9

## 6. FACULTY PROFILE

Sr. No.	Name & Designation	Qualification & Specialization	Total Experience	Publication			Book/Chapter
				SCI/SCIE/ESCI	SCOPUS	UGC Approved Care/Referred	
1	Dr.Divyajyoti Singh	PhD Literature: Herman Melville: Use of Indian Mythology (19 <sup>th</sup> century American Literature) 2011  MPhil 2004 NET 2003	18 years	2	4	1	2
2	Dr. Reena Grewal	PhD : Role of Women in Rabindranath Tagore's Fiction	4 years	-	-	-	-
3.	Dr Neelima Prakash	PhD: Short Stories of Dorris Lessing	1 year	-	-	-	-



### 7. DETAILS OF NEWLY JOINED FACULTY MEMBERS DURING THE YEAR

Sr. No.	Faculty Name	Designation & Qualification	Date of Joining
1.	Ms Bharti Sharma	Assistant Professor (Guest Faculty)	March 2, 2023
2.	Ms Neelima Prakash	Assistant Professor (Guest Faculty)	November 7, 2022
3.	Mr Bhuvnesh	Assistant Professor(Guest faculty)	November 28, 2022

### 8. FACULTY MEMBERS SPONSORED FOR STP/COURSES/WORKSHOPS OR CONFERENCES

Sr. No.	Faculty Name	Course/Workshop/Conferences	Sponsored by	Date
1.	Dr Divyajyoti Singh Ms Mamta Bansal	8 weeks Online Short-Term Training Programme	JC BoseUST (No fee)	December 10, 2022 to February 12, 2023

### 9. DEPARTMENTAL PUBLICATIONS & FDP/STC/WORKSHOP(01/07/2020 - 30/06/2021)

Sr. No.	Particular	Count
11.	Publications in International Journals	<u>2</u>
12.	Publications in National Journals	<u>1</u>
13.	Publications in International Conferences	<u>0</u>
14.	Publications in National conferences	<u>1</u>
15.	Workshop	<u>1</u>
16.	STC/FDP	<u>2</u>


**10. PAPER PUBLISHED IN INTERNATIONAL JOURNALS (01/07/2022 - 30/06/2023)**

S. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
1.	Dr Reena Grewal	Reena Grewal. A Study of Effectiveness of Online Teaching- Learning Within the University During Lockdown Period'. International Journal for Research Trends and Innovation. V.7.I.7. (1346-1349) 2022.
2.	Divyajyoti Singh	Divyajyoti Singh. <u>An Autoethnographic Representation of Hindu Jats: An Agrarian Community of Northern India</u> . Faran Journal of Historical Studies 3 (1), 7-27, 2022

**11. WORKSHOP/STC/INVITED TALKS/WEBINAR/OTHER ACTIVITIES CONDUCTED**
**(01/07/2022 - 30/06/2023)**

S. No.	Name of Activity	Title	In collaboration with (if any)	Dates	Name of Coordinator
1.	Excursion	Visit to Surajkund Crafts Mela		February 13, 2023	Dr Reena Grewal
2.	English Diagnostic Test (as part of Induction Training/Orientation Programme for BTech)	M1: Communication Skills M2: English Language and Communication Skills  M2: Critical and Creative Thinking Skills	DSW	November 15, 2022 and November 21, 2022.	Dr NeelimaPrakash  Ms Pooja Chaabra Abbot  Dr DivyajyotiSingh and Ms Mamta Bansal
3.	New edition of Department Newsletter and e-magazine <i>Simulacra</i> released on November 29, 2022.		-		Dr Divyajyoti Singh and Ms Mamta Bansal
4.	Three-Day Theatre Workshop under the title 'Theatrical Performance and Expressionistic Techniques' held from (July 20 to July 22, 2022)		-		Dr Divyajyoti Singh and Ms Mamta Bansal



5.	Special Lecture Series for BBA in Management Studies department	English for Communication Skills	Literature Languages and	December 27, 2022 , January 6-8 and January 13, 2023.	Ms Pooja Chhabra Abbot
6.	Special Lectures Series for JMC (12 lectures)		CMT	February 2 to February 12, 2023.	Ms Pooja Chhabra Abbot
7.	Special Lecture For Life Sciences		Life Sciences	November 24, 2022.	Dr Divyajyoti Singh
8.	Special Lecture For Life Sciences		Life Sciences	November 17, 2022.	Ms Mamta Bansal
9.	Special Lecture For Mathematics		Mathematics	November 18, 2022	Dr Divyajyoti Singh
10.	Special Lecture For Mathematics		Mathematics	November 21, 2022	Ms Mamta Bansal
11.	VAC Weekend Lectures for Electronics	Communication Activities for Better Language Skills	Electronics	November 4, 2022	Dr Divyajyoti Singh
12.	VAC Weekend Lectures for Electronics	Etiquettes for Professional Life	Electronics	November 17, 2022	Ms Pooja Chhabra Abbot
13.	VAC Weekend Lectures for Electronics	Communication Skills	Electronics	March 16, 2023	Dr Neelima Prakash
14.	VAC Weekend Lectures for Electronics	Effective Communication Skills	Electronics	March 27, 2023	Ms Mamta Bansal
15.	The First Lecture in the Friday Lecture Series	History of English Literature	–	April 15, 2022	Ms Ankita Goel
16.	The Second Lecture in the Friday Lecture Series	Introduction to Literary Theory	–	August 2, 2022	Ms Tanya Kaur



**12. STC/FDP/WORKSHOP/ SYMPOSIA/ WORKSHOP ATTENDED BY FACULTY MEMBERS (01/07/2022 TO 30/06/2023)**

S.No.	Name of Faculty	Name of STC/ FDP	Organized by	Date	
				From	To
1.	Mamta Bansal	International Conference	LNM Institute of Information Technology, Jaipur	April 29, 2022	May 1, 2022
2.	Mamta Bansal	8-week Online STP	Centre for Language, Translation and Cultural Studies (CLTCS) School of Humanities Netaji Subhas Open University	December 10, 2022	February 12, 2023.
3.	Dr Divyajyoti Singh	8-week Online STP	Centre for Language, Translation and Cultural Studies (CLTCS) School of Humanities Netaji Subhas Open University	December 10, 2022	February 12, 2023.
4.	Ms Mamta Bansal	1 week online GIAN course.	Department of English, Aligarh Muslim University, Aligarh	October 25, 2022	October 29, 2022

**13. INVITED TALKS/LECTURES DELIVERED BY FACULTY MEMBERS (01/07/2022 - 30/06/2023)**

S.No.	Name of Faculty	Topic	Venue	Date
1.	Dr Divyajyoti	Decolonization and Indigenous Studies	International Symposium organized by UG Department of English, Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women (affiliated to University of Madras): Hybrid Mode	January 25, 2023
2.	Dr Divyajyoti	Exploring the Native American Niche: Texts and Contexts	DHE Sponsored 3-day International Seminar on Trends in American Literature	February 12, 2023



3.	Dr Divyajyoti	Creative Interventions for Human Rights	UGC-HRD Centre BPS Women University Khanpur Kalan Refresher Course in Human Rights, Legal Systems and Societal Development	March 24, 2023
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**14. FACULTY SERVING IN STATE/NATIONAL/INTERNATIONAL COMMITTEES, EDITORIAL BOARDS ETC.(01/07/2020 - 30/06/2021)**

S. No.	Name of Faculty	Details
1.	Divyajyoti Singh	Editorial Board, <i>Ad litteram</i> (English Language Journal)

**15. DETAILS OF STUDENTS QUALIFYING COMPETITIVE EXAMS (GATE/CAT/ OTHER EXAM ETC.)(01/07/2022 TO 30/06/2023)**

S. No.	Name of Exam	Name of Student	Exam Roll Number	Ranking/Score
1.	UGC-NET	Sanya Khetarpaul	HR03003438	99.92057 percentile
2.	UGC-NET	Babita Devi	PB01670082	99.65631131 percentile.

**16. WHETHER MENTOR/MENTEE MEETING HELD REGULARLY : YES**


**17. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES**

The department is well equipped with the following facilities:

Sr. No.	Facility	Existing	Added*
21.	Labs	Language Lab facility	
22.	Workshops	-	
23.	Lecture Halls	2	
24.	Smart Classroom	0	
25.	Conference Room	To be developed.	
26.	Seminar Halls/Projector Rooms/Research Lab	To be developed.	
27.	Internet Connection	Yes, Language Lab is equipped with internet facility which is a central facility is maintained by FLAMS.	
28.	LCD /LED	Nil	
29.	ICT (Projector/OHP/Interactive Board)	Nil	



30.	Any Other Facility	Nil	
31.	-	-	

<p>1. Introduction of lab (50 words)</p>	<p>The Language Lab was established in the University in April 2019. It offers a boutique of modules that help the students to learn independently as well as under teachers' guidance. The students may benefit from this interactive SW application whereby they can time their tests and assess their competence ranging from soft skills to corporate correspondence.</p> 
<p>2. Laboratory/Project Coordinator: Mr Himanshu</p>	
<p>3. Total Cost of research equipments: About 7 lacs.</p>	
<p>Details of equipments: Total 35(HPdesktop+Dell desktop):- I5, 8Gb RAM ,1TB HDD, Language software like(Sky Sanako, Pronounce, Alielts, RUMENU,Tense tester2.0),Headphone etc.</p>	
<p>8. Seating capacity of lab is 35 students.</p>	
<p>Benefit to students/researchers: No. of student of English department using lab for B.Tech (CE, IT, Mech EIC, EL ECE)</p> <p>i.e <math>60 \times 5 = 300</math> Students. As branches are added over years the footfall has increased. An odd-even scheme is used clustering CE, Mech and IT as one and EL,EIC, ECE branches for other semesters. More recently, the Civil branch has been added. Around 30 students of BJMC have also been given access.</p>	

**18. EXPENDITURE INCURRED ON ACADEMIC SUPPORT FACILITIES DURING THE YEAR**

Sr. No.	Name of item procured	Academic Utility	Cost
2.	Printer	Department Work.	INR 19, 850.
	Total Expenditure		19850 INR



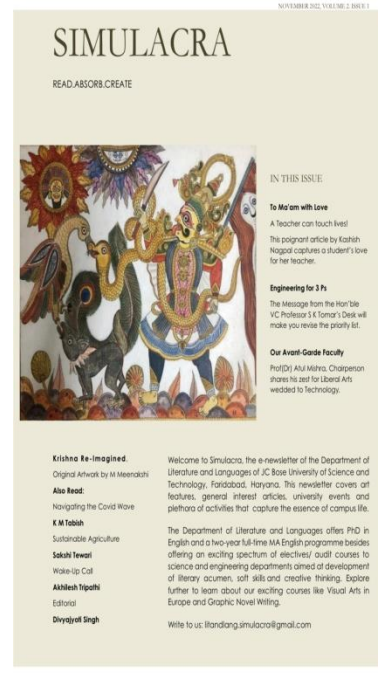


## 19. DETAIL OF PROMINENT ACADEMIC ACTIVITIES CONDUCTED BY THE DEPARTMENT (01/07/2022 TO 30/06/2023)

Theatre Workshop



e-Newsletter





# **FACULTY OF LIFE SCIENCES**



## DEPARTMENT OF LIFE SCIENCE





## DEPARTMENT OF LIFE SCIENCE

### 1. INTRODUCTION

The Department of Life Sciences aims at developing a holistic understanding of the living organisms along with their interactions with other biotic and abiotic components in the biosphere. The courses generate understanding and awareness of macro and microorganisms, their physiology, metabolism along with their use to generate technologies, processes and products beneficial to human society and the ecosystem. An integral part is the understanding of the various techniques and technologies being used as to accelerate and facilitate deeper understanding and manipulation of these organisms for different biotechnological applications. The Department currently offers one undergraduate course (B.Sc. Life Sciences) and four postgraduate courses (M.Sc. Biotechnology/ Microbiology/Zoology/Botany). The course content in all programmes has been generated to provide students with concept development and its translation to practical work involving experimental design, data observation and analysis. Problem solving approach is an integral part of the content to boost the skill sets of the students thereby inculcating within them the zeal for higher studies or entrepreneurship.

### 2. DEPARTMENT VISION

Department that can effectively harness its multidisciplinary strengths to create an academically stimulating atmosphere; evolving into a well-integrated system that synergizes the efforts of its competent faculty towards imparting intellectual confidence that aids comprehension and complements the spirit of inquiry.

### 3. DEPARTMENT MISSION

- To create well-rounded individuals ready to comprehend scientific and technical challenges offered in the area of specialization.
- To counsel the students so that the roadmap becomes clearer to them and they have the zest to turn the blueprint of their careers into a material reality.
- To encourage critical thinking and develop their research acumen by aiding the nascent spirit for scientific exploration. Help them take economic, social, legal and political considerations when visualizing the role of technology in improving quality of life.
- To infuse intellectual audacity that makes them take bold initiatives to venture into alternative methods and modes to achieve technological breakthroughs.

FACULTY AND DEPARTMENT		
	Name	Tenure
Dean of Faculty	Prof Ashutosh Dixit	June 2020 to April 2022
Dean of Faculty	Prof. Neetu Gupta	11.04.2022 to till date
Chairperson of the Departments	Dr Ravi Kumar	21.07.2022 to till date

### 4. DEPARTMENT HIGHLIGHTS

Courses offered	Existing	Newly added
UG Course	Nil	BSc Life Sciences
PG Course	Msc Zoology MSc Botany MSC Microbiology MSc Biotechnology	Nil



<b>PhD</b>	Nil	Nil
<b>Others</b>	Nil	Nil
Sr. No.	Course Details	Intake
1.	BSc Life Sciences	69
2.	Msc Zoology	24
	MSc Botany	24
	MSc Microbiology	24
	MSc Biotechnology	24
STUDENT ENROLLMENT		
	MALE	FEMALE
<b>Total</b>	36	246
<b>UG Course</b>	21	89
<b>PG Course</b>	15	157
<b>PhD</b>	Nil	Nil

### 5. FACULTY DETAILS

Sr. No.	Professor	Associate Professor	Assistant Professor	Adjunct/Contractual/ Visiting Faculty	Total
<b>Male</b>	Nil	Nil	Dr Ashish Kumar (Contract) Dr Sunny Dholpuria (Contract) Dr Satej Bhushan (Contract)	Nil	9
<b>Female</b>	Nil	Nil	Dr Nimisha Patel (Contract) Dr SakshiTewari (Contract) Dr KomalTaneja (Contract) Dr Sonia Saraswat (Contract) Dr Nisha Singh (Contract) Dr Ashima Singh (Contract)	Nil	
<b>Total</b>			9		

### 6. FACULTY PROFILE

Sr. No.	Name & Designation	Qualification & Specialization	Total Experience	Publication			Book/ Chapter
				SCI/ SCIE	SCOPUS	UGC Approved Care/Referred	
1.	Dr Ashish Kumar Gupta	PhD Biophysics	03	08	02	02	0
2.	Dr Ashima Sharma	PhD Biological Science	3.8	5	Nil	Nil	2
3.	Dr SakshiTewari	PhD Microbiology	7	10	0	10	10
4.	Dr KomalTaneja	PhD Molecular Biology	03	03	0	03	0



5.	Dr Sunny Dholpuria	PhD Animal Biotechnolgy	4.5	09	0	0	2
6.	Dr Sonia Saraswat	PhD Animal Sciences	6.0	21	0	0	2
7.	Dr Nimisha Patel	PhD Bioscience	3.5	10	4	4	8

### 7. NON-TEACHING STAFF

Sr. No.	Name and Designation	Qualification	Date of Joining
1.	Mr Phool Singh Lab Assistant	B Tech, Mechanical	20 <sup>th</sup> Nov 2020
2.	Ms Veer Pal	BA	1 <sup>st</sup> Oct 2021
3.	Ms Neetu Sharma	BSc	18 <sup>th</sup> Nov 2021
4.	Mr Om Praksh	Intermediate	17 <sup>th</sup> March 2017

### 8. DETAILS OF NEWLY JOINED FACULTY MEMBERS DURING THE YEAR

Sr. No.	Facility Name	Designation & Qualification	Date of Joining
1.	Dr. Kakoli Dutt	Associate Professor	5 <sup>th</sup> Aug 2022
2.	Dr Deepansh Sharma	Assistant Professor	4 <sup>th</sup> Aug 2022
3.	Dr Ashima Sharma	Assistant Professor	1 <sup>st</sup> Aug 2021

### 9. FACULTY MEMBER COMPLETED PHD DURING THE YEAR

Sr. No.	Facility Name	Discipline	Topic	Awarding Year	Institution
1.	Nil	Nil	Nil	Nil	Nil

### 10. FACULTY MEMBERS SPONSORED FOR STP/COURSES/WORKSHOPS OR CONFERENCES

Sr. No.	Facility Name	Course/Workshop/Conferences	Sponsored by	Date
1.	Dr Sakshi Tewari	7 <sup>th</sup> Asian PGPR conference for sustainable and organic agriculture	DST New Delhi	5-6 <sup>th</sup> Sep 2022

### 11. DEPARTMENTAL PUBLICATIONS & FDP/STC/Workshop(01/07/2020 - 30/06/2021)

Sr. No.	Particular	Count
1.	Publications in International Journals	15
2.	Publications in National Journals	03



3.	Publications in International Conferences	04
4.	Publications in National conferences	04
5.	Workshop conducted	Nil
6.	STC/FDP	17

## 12. PAPER PUBLISHED IN INTERNATIONAL JOURNALS (01/07/2021 - 30/06/2022)

Sr. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
1.	Dr Sakshi Tewari	<b>S. Tewari</b> and S. Sharma (2021). An improved high-throughput method for assessing the impact of bioformulation on plant parameters: Case study with pigeonpea seeds. <i>Physiological and Molecular Plant Pathology</i> .101657
2.	Dr Sakshi Tewari	S. Sharma and <b>S. Tewari</b> (2022) Next Generation Bioluminescence Imaging Technology for Tracking Numerous Biological Processes Under in Vivo Conditions (2022). <i>International Journal of Animal Biotechnology and Applications</i> 8 (2) (2022).
3.	Dr Sonia Saraswat	C. Gangwar, G. Kumaresan, A. K. Mishra, A. Kumar, <b>S. Saraswat</b> , S. D. Kharche and B. Rai (2022). Identification and characterization of <i>Staphylococcus</i> species isolates from buck semen. <i>Journal of Reproductive Healthcare and Medicine</i> ,3(8),1-5. DOI: 10.25259/JRHM_3_202
4.	Dr Sunny Dholpurina	P.K. Gupta, R. Gahtori, K. Govarthanan, V. Sharma, S. Pappuru, S. Pandit, A.S. Mathuriya, <b>S. Dholpuria</b> and Bishi, D.K., (2021). Recent trends in biodegradable polyester nanomaterials for cancer therapy. <i>Materials Science and Engineering: C</i> , 127, p.112198.
5.	Dr Sunny Dholpurina	K.S. Singh, S. Anand, <b>S. Dholpuria</b> , J.K. Sharma, W. Blankenfeldt and Y. Shouche (2021). Antimicrobial resistance dynamics and the one-health strategy: a review. <i>Environmental Chemistry Letters</i> , 19(4), pp.2995-3007.
6.	Dr Sunny Dholpurina	R. Kar , S.K. Jha, S. Ojha, A. Sharma, <b>S. Dholpuria</b> , V.S.R. Raju, P. Prasher, D.K. Chellappan, G. Gupta, S. K. Singh and K.R. Paudel ( 2021). The FBXW7-NOTCH interactome: A ubiquitin proteasomal system-induced crosstalk modulating oncogenic transformation in human tissues. <i>Cancer Reports</i> , 4(4), p.e1369
7.	Dr Sunny Dholpurina	<b>S. Dholpuria</b> , R. Kumar, N.K. Jha, S. Jha and S. Agrawal ( 2022). Antimicrobial Interfaces as Augmentative Strategy Against Antimicrobial Resistance. In <i>Emerging Modalities in Mitigation of Antimicrobial Resistance</i> (pp. 523-539). Springer, Cham.
8.	Dr. Nimisha Patel	V. M. Mayekar, A. Ali, H. Alim and <b>N. Patel</b> (2021). A review: Antimicrobial activity of the medicinal spice plants to cure human disease. <i>Plant Science Today</i> , Vol 8(3): 629–646
9.	Dr. Nimisha Patel	<b>N. Patel</b> , U. Ahmed, S. S. Mir, A. Anas, T. Tanzeel, H. Alim and A. Ali (2022). Biodegradation of High Molecular Weight Polycyclic Aromatic Hydrocarbon Chrysene by Soil Bacterial Isolates. <i>Poll Res.</i> 41 (2): 188-194.
10.	Dr. Nimisha Patel	R.Wadhwa, S. U. Nayak, <b>N. Patel</b> and H. Alim (2022). Clinical study to evaluate the efficacy of <i>Pippalyadi basti</i> and Lekhan basti in the management of obesity. <i>Annals of Phytomedicine</i> 11(1): 260-265
11.	Dr. Nimisha Patel	K. Mistry, S. D. Sardar, H. Alim, N. Patel, M. Thakur, D. Jabborova, A. Ali (2022). Plant Based Proteins: Sustainable Alternatives. <i>Plant Science Today</i> 9(4):820–828.
12.	Dr. Nimisha Patel	A. Anavkar, N. Patel, A. Ali, W. Rajan, and H. Alim. (2022). “Gut Microbes: Influencers of Human Brain” in <i>Gut-Brain Axis and Human Health</i> Edt. By R.Z.Sayyed & Mahejbin Khan published by Springer Nature Singapore Pte Ltd.





13.	Dr. Nimisha Patel	Y. Pradhan, H. Alim, N. Patel, K. Zahra, B. Yiğit, J. Khan, A. Ali (2022). Piper longum (Long Pepper or Pipli) and Tinospora cordifolia (Giloy or Heart-Leaved Moonseed). DOI:10.1201/9781003205067-12. In book: Herbs, Shrubs, and Trees of Potential Medicinal Benefits (pp.217-234).
14.	Dr. Nimisha Patel	A. Anavkar, N. Patel, A. Ali, and H. Alim (2022). Plantago ovata (Isabgol) and Rauvolfia serpentina (Indian Snakeroot). DOI:10.1201/9781003205067- In book: Herbs, Shrubs, and Trees of Potential Medicinal Benefits (pp.235-260).
15.	Dr. Nimisha Patel	A. Vartak, S. Sonawane, H. Alim, N. Patel, L. Hamrouni, J. Khan, A. Ali (2022). Medicinal and Aromatic Plants in the Cosmetics Industry. Medicinal and Aromatic Plants of India Vol. 1.341-364. Springer, Cham. DOI: 10.1007/978-3-030-98701

### 13. PAPER PUBLISHED IN NATIONAL JOURNALS (01/07/2021 - 30/06/2022)

Sr. No.	Name of Faculty	Author, Title, Journal, Vol, Issue, Pages, Year
1.	Dr Sakshi Tewari	<b>S. Tewari</b> (2022) Chemical free biofertilizers for sustainable agriculture. In <i>Simulacra</i> digital magazine. pp 13-15.
2.	Dr Sonia Saraswat	<b>S. Saraswat</b> , G. Kumaresan, C. Gangwar, M.K. Singh, S.P. Singh (2022). Isolation of High-quality intact RNA from buck spermatozoa. <i>Indian Journal of Small Ruminants</i> .28(1),196-199.
3.	Dr Sonia Saraswat	S. D. Kharche, J. pathak, A. K. Singh Sikarwar, <b>S. Saraswat</b> , R. Ranjan and S. P. Singh (2022). Effect of hypoxia on production of caprine chimeric blastocyst. <i>Indian Journal of Animal Sciences</i> , 92(10), 1176-1178. DOI: <a href="https://doi.org/10.56093/ijans.v92i10.10428">https://doi.org/10.56093/ijans.v92i10.10428</a>

### 14. PAPER PUBLISHED IN NATIONAL CONFERENCES(01/07/2021- 30/06/2022)

Sr. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1.	Sakshi Tewai	S. Tewari. (2021). Understanding the direct relationship between exopolysaccharides and salicylic acid for plant growth promotion and disease management in sunflower crop, Indian Phytopathological Society.
2.	Sonia Saraswat	S. Saraswat, S.D. Kharche, C. Gangwar, K. Gururaj, Ravi Ranjan and M.K. Singh. Expression of different RNAs in buck spermatozoa for identifying fertility biomarker. ISSSGPU, 9 to 11 Nov., (2022) at CSWRI, Avikanagar, Rajasthan.
3.	Sonia Saraswat	C. Gangwar, K. Gururaj, A.K. Mishra, A. Kumar, S.D. Kharche, S. Saraswat and B. Rai (2022). Isolation, Identification and characterization of Staphylococcus species isolates from buck semen. ISSRF, (2022), pno. 53.
4.	Sonia Saraswat	S. Saraswat, C. Gangwar and S.D. Kharche (2021). Comparative assessment of spermatozoa proteome of bucks with differential fertility. 31 Annual meeting of ISSRF at Satyawati College, University of Delhi New Delhi, India from 19th-21th February, (2021).pno 370.

### 15. PAPER PUBLISHED IN INTERNATIONAL CONFERENCES (01/07/2021- 30/06/2022)

Sr. No.	Name of Faculty	Authors, Title, Conference, Dates, year, Pages
1.	Dr Sonia Saraswat	C. Gangwar, K. Gururaj, A.K. Mishra, A. Kumar, S.D. Kharche, S. Saraswat and B Rai (2022). Isolation, Identification and characterization of Staphylococcus species isolates from buck semen. ISSRF, (2022), pno. 52





**16. STC/FDP/WORKSHOP/ SYMPOSIA/ WORKSHOP ATTENDED BY FACULTY MEMBERS (01/07/2021 TO 30/06/2022)**

Sr. No.	Name of Faculty	Name of STC/ FDP	Organized by	Date	
				From	To
1.	Sonia Saraswat	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Data Analysis using SPSS" from at C.M.P. Degree College	BHU, Varanasi	03/01/2022	07/01/2022
2.	Sonia Saraswat	Attended online workshop on "Global Transcriptomic Data Analysis" from December 2021 organized by	ICAR-Centre for Advanced Agricultural Science & Technology (CAAST) at University of Agricultural Sciences Bangalor	27/12/2021	30/12/2021
3.	Sonia Saraswat	Attended and completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Multi-omics Data Science".	Indian Institute of Technology (IIT) Jodhpur.	20/12/2021	24/12/2021
4.	Sonia Saraswat	Attended & completed AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Gene and Genome Technology for Biologists" from	Bihar Animal Sciences University.	22/11/2021	26/11/2021
5.	Sonia Saraswat	Attended NAHEP sponsored webinar on "Impact of oxidative stress on male and female reproduction" at ICAR-National Dairy Research Institute-Karnal, Haryana dated July 1st, 2021.	ICAR-National Dairy Research Institute-Karnal	1/07/2021	1/07/2021
6.	Sonia Saraswat	Attended IDP-NAHEP, SKUAST-Kashmir sponsored 7 days online training programme on "Essentials of Bioinformatics", 2021	Kashmir	2/07/2021	2/07/2021
7.	Dr Sunny Dholpuri	One Week Online International Workshop on Biostatistics during Nov, 21-27, 2021	Science TechInstitute, Lucknow, UP India.	21/11/21	27/11/21
8.	Dr Sunny Dholpuri	Online Elementary FDP on "GenomeEngineering: CRISPR-Cas as an emerging Tool" from at	IMS Engineering College, Ghaziabad.	14/12/2021	18/12/2021
9.	Dr Sunny Dholpuri	AICTE Training And Learning (ATAL) AcademyOnline Elementary FDP on "Novel Technological Approaches for Utilization of Food Industry Waste" at National Institute of Food Technology Entrepreneurship and	NIFTEM	13/09/2021	17/09/2021



		Management			
10.	Dr Komal Taneja	Online Elementary FDP on "Genome Engineering for Environment" at Indian Institute of Technology Guwahati.	IIT Guwhati	23/08/2021	27/08/2021
11.	Dr Komal Taneja	Online Elementary FDP on "Applications of Biotechnological and Analytical Tools in Pharmaceutical Research	Meerut Institute of Engineering & Technology.	14/09/2021	18/09/2021
12.	Dr Komal Taneja	Online Elementary FDP on "Computer Science and Biology : Impact of Bioinformatics and Molecular Biology on Drug Discovery"	College of engineering & technology , iilm academy of higher learning	04/10/2021	08/10/2021
13.	Dr Komal Taneja	NPTEL Awareness Workshop conducted by IIT Kanpur	Manav Rachna International Institute of Research and Studies, Faridabad	13/05/2022	13/05.2022
14.	Dr Nimisha Patel	Online FDP on "Green Technology"	Sant Longowal institute of Engineering and Technology, Longowal	23/08/2021	27/08/2021
15.	Dr Nimisha Patel	Online Elementary FDP on "Applications of CRISPR-Cas Gene Editing Tool"	Maulana Abul Kalam Azad University of Technology, West Bengal	07/02/2022	11/02/2022
16.	Dr Sakshi Tewari	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Faculty Development Program on Early Stage Innovation, Startups and Entrepreneurship"	Central University of Rajasthan	27/08/2021	27/08/2021
17.	Dr Sakshi Tewari	One week Faculty Development Program on Research Writing and Professional Ethics	JCBUST	07.09.2021	13.09.2021



**17. INVITED TALKS/LECTURES DELIVERED BY FACULTY MEMBERS (01/07/2021 - 30/06/2022)**

Sr. No.	Name of Faculty	Topic	Venue	Date
1.	Dr Sakshi Tewari	Direct relationship between Salicylic acid and EPS for plant growth promotion	Loyala Academy Telangana, Hyderabad	5-6 <sup>th</sup> Sept 2021

**18. FACULTY SERVING IN STATE/NATIONAL/INTERNATIONAL COMMITTEES, EDITORIAL BOARDS ETC (01/07/2021 -30/06/2022)**

Sr. No.	Name of Faculty	Details
1.	Dr Sakshi Tewari	Reviewer and Editorial member of International Journal of Animal Biotechnology and Application Reviewer and Editorial member of SAGE Journal
2.	Dr Nimisha Patel	Reviewer for Plant Science Today Journal, eISSN: 2348-1900
3.	Dr Nimisha Patel	Dergipark Journal

**19. DETAILS OF STUDENTS QUALIFYING COMPETITIVE EXAMS (GATE/CAT/ OTHER EXAM ETC.)(01/07/2021 TO 30/06/2022)**

Sr. No.	Name of Exam	Name of Student	Exam Roll Number	Ranking/Score
1.	CSIR NET JRF	Akta	-	AIR 47
2.	GATE 2022	Sakshi Thakur	XL22S68020120	3116
3.	GATE 2022	Mansi	XL22S63008038	771
4.	GATE 2022	Shalini Sharma	-	1796
5.	GATE 2022	Akansha	-	3427
6.	GATE 2022	Amit Kumar	BT22S533030112	1323
7.	NII	Sakshi Thakur	NII2203096	159
8.	JGEEBILS	Sakshi Thakur	GS2022BIOPHD010598	

**20. SPONSORED R&D PROJECTS IN-HAND**

Sr. No.	Name of Principal Investigator	Title of Research Project	Funding Agency	Duration	Year of Allotment	Amount (Rs.)
1.	Dr Sakshi Tewari	Synthetic Microbial Community as a novel approach for combating biotic stress in pigeonpea	DST New Delhi	1 year 6 month	31 <sup>st</sup> March 2022	8 Lakhs

**21. CONSULTANCY PROJECTS IN-HAND**

Sr. No.	Name of Principal Consultant	Name of the Project	Funding Agency	Duration	Year of Allotment	Amount (Rs.)
1.	Nil	Nil	Nil	Nil	Nil	Nil

**22. INTERNAL REVENUE GENERATED**

Sr. No.	Name of Principal Consultant	Name of the Project	Funding Agency	Duration	Year of Allotment	Amount (Rs.)
1.	Nil	Nil	Nil	Nil	Nil	Nil

**23. WHETHER MENTOR/MENTEE MEETING HELD REGULARLY : YES****24. PATENT PUBLISHED /AWARDED DURING THE YEAR 2021-2022**

Sr. No.	Name of faculty member	Title of Patent	Date of Award/ Publication
1.	Nil	Nil	Nil

**25. AWARDS/PRIZES WON BY FACULTY DURING THE YEAR**

Sr. No.	Title of the Award	Name of the Awardee	Awarding Agency	State/National/ International
1.	Best Oral Presentation	Dr Sakshi Tewari	Asian PGPR Society	International
2.	Young Scientist Awards	Dr Sonia Saraswat	Awarded Prof. S. S. Guraya Young Scientist Awards for, Isolation, Identification and characterization of Staphylococcus species isolates from buck semen. ISSRF, 2022.	National


**26. AWARDS/PRIZES WON BY STUDENTS DURING THE YEAR 2021-2022**

Sr. No.	Title of the Award	Name of the Awardee	Awarding Agency	State/National/ International
1.	Rangoli competition	Ms Rinki	JCBUST	University event
2.	Poster Making Competetion on human rights day	Ms Rinki	JCBUST	University event
3.	Card and Poster making competition	Ms Rinki	Red Cross society , JCBUST	University event
4.	Inter college essay writing competition	Ms Neha Soni	KL Mehta Dayanand college	College Event

**27. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES**

Sr. No.	Facility	Added*
1.	Labs	03



<p>1. Introduction of lab (50 words)</p> <p>Three labs previously belonging to Department of Chemistry is transferred to Department of Life Sciences. F10 as Biotechnology Lab, F11 as Botany and Zoology lab and F12 as Microbiology lab.</p>	<p>Photo of Lab</p> 
<p>2. Laboratory/Project Coordinator: Dr Sakshi Tewari (Microbiology), Dr Komal Taneja (Botany), Dr Sunny Dholpuria (Zoology), Dr Ashish Gupta (Biotechnology lab)</p>	
<p>3. Details of equipments: Autoclave (Rs 9794/-)</p> <p style="padding-left: 40px;">Western Blot (44850/-)</p> <p style="padding-left: 40px;">PCR machine (240450/-)</p> <p style="padding-left: 40px;">Spectrophotometer (249450/-)</p> <p>4. Laminar air flow (110630/-)</p>	
<p>5. Benefit to students/researchers: Demonstration of equipments and performing various laboratory experiments using them.</p>	



## FACULTY OF INTERDISCIPLINARY (CENTRE FOR ENERGY STUDIES)





## 1. INTRODUCTION

Centre for Energy Studies, JC Bose University of Science & Technology, YMCA Faridabad has been established under the aegis of the Faculty of Interdisciplinary Studies and Research in March 2021. Presently, the centre offers M Tech in Energy and Environmental Engineering. Under CES, research on various fields, such as Clean and Sustainable Technologies in the areas of biomass, combustion and utilization of fuels, solar energy, hydro, clean coal, and also prime movers like new cycle using supercritical CO<sub>2</sub>, energy storage, gas turbines, IC engines for alternative fuels, smart grids, etc. as well as smart grids shall also be taken up in addition to teaching and consultancy work. The Centre will also focus on the technological aspects of climate change and mitigation options on other environmental issues associated with Energy.

## 2. DEPARTMENT VISION

To strengthen Renewable Energy Technologies for Sustainable Development through latest Pedagogical tools, continuous efforts to promote Multidisciplinary Research to address the problem of Climate Change and Human Resource Development at various levels.

## 3. DEPARTMENT MISSION

- To provide Energy and Environment Education and Training Programs for different walk of people.
- To develop the students for leadership roles in the Energy and Environment area as per local and global needs in accordance with the different type of Standards.
- To promote Environment and Energy Consciousness in Multidisciplinary approach for different type of Industries.
- To develop Sustainable, Efficient Innovations and Research to find the solution of Climate Change and reduce Pollution as well as Carbon Foot Print.
- To develop and enhance Environmentally Sustainable, Efficient solutions that are put to the wellbeing of the Society.

Faculty and Department		
	Name	Tenure
Dean of Faculty	Dr Arvind Gupta	03.07.2020 to till date
Chairperson of the Departments	Dr Arvind Gupta	

## 4. DEPARTMENT HIGHLIGHTS

Courses offered	Existing	Newly added
UG Course	NIL	NIL
PG Course	M Tech Energy and Environmental Engineering	NIL
PhD	Interdisciplinary	NIL
Others	NIL	NIL

Sr. No.	Course Details	Intake
1.	M Tech Energy and Environmental Engineering	18
2.	Interdisciplinary	As per seat allocation



Student Enrollment		
	MALE	FEMALE
<b>Total</b>		
<b>UG Course</b>	NIL	NIL
<b>PG Course</b>	18	Nil
<b>PhD</b>	01	Nil

### 5. FACULTY DETAILS

Sr. No.	Professor	Associate Professor	Assistant Professor	Adjunct/Contraual/ Visiting Faculty	Total
<b>Male</b>	NIL	NIL	NIL	02	02
<b>Female</b>	NIL	NIL	NIL	02	02

### 6. FACULTY PROFILE

Sr. No.	Name & Designation	Qualificati on & Specializat ion	Total Experience	Publication			Book/Chapter
				SCI/ SCIE	SCOPUS	UGC Approved Care/Referred	
1.	Prof Arvind Gupta Professor ME Dean and Chairman CES	M Tech; Ph D	31 years	08	19	NIL	03
2.	Dr Smita AP, Department of Env Sc & Engg	M Sc, M Tech, PhD	7 years	43	49	NIL	12

### 7. NON-TEACHING STAFF

Sr. No.	Name and Designation	Qualification	Date of Joining
1.	Ms Renu Bhatia (Clerk)	B Com, 2-year diploma in Computer	02-12-2013
2.	Mr. Tarun Nagar (Peon)	12 <sup>th</sup>	01-04-2022





### 8. DEPARTMENTAL PUBLICATIONS AND FDP/STC/WORKSHOP (01/07/2021 - 30/06/2022)

Sr. No.	Particular	Count
1.	Publications in International Journals	00
2.	Publications in National Journals	00
3.	Publications in International Conferences	00
4.	Publications in National conferences	00
5.	Workshop	02
6.	STC/FDP	00

### 9. WORKSHOP/STC/INVITED TALKS/WEBINAR/OTHER ACTIVITIES CONDUCTED (01/07/2021 - 30/06/2022)

Sr. No.	Name of Activity	Title	In collaboration with (if any)	Dates	Name of Coordinator
1.	2-day hands-on training at CEEES DCRUST, Murthal	Fuel Technology at Centre of Excellence for Energy & Environmental Studies DCRUST Murthal	NIL	12-08-2021 & 13-08-2021	Dr Smita and Prof Arvind Gupta
2.	3-day hands-on training at Indian Institute of Technology Delhi	Air Pollution Control Engineering at Indian Institute of Technology Delhi	NIL	09-08-2021 & 11-08-2021	Dr Smita and Prof Arvind Gupta

### 10. WHETHER MENTOR/MENTEE MEETING HELD REGULARLY: YES

### 11. DEPARTMENTAL INFRASTRUCTURE AND FACILITIES

The department is well equipped with the following facilities:

1. Introduction of lab	Lab is equipped latest training system to train the student's latest renewable technologies. 1. Fuel Cell Training System 2. Solar P. V Training & Research System 3. Solar Thermal Training System 4. Thermal Energy Storage Training System
2. Laboratory/Project Coordinator: NIL	
3. Total Cost of research equipments: NIL	
4. Details of equipments: NIL	
5. Benefit to students/researchers: NIL	



## COMMUNITY COLLEGE OF SKILL DEVELOPMENT





## **COMMUNITY COLLEGE OF SKILL DEVELOPMENT**

**Principal: Dr. Sanjeev Goyal**

**Vice Principal: Mr. Nitin Goyal**

### **1. INTRODUCTION**

The Community College of Skill Development (CCSD) is an alternative system of education, which is aimed at the empowerment of the disadvantaged and the underprivileged – urban poor, rural poor, tribal poor and women – through appropriate skills development leading to gainful employment in collaboration with the local industry and the community and achieve skills for employment and self-employability of the above sections of people in the society. The Community College model is a flexible, open education system which is based on lifelong learning needs and is accessible to a large number of individuals of the community. It primarily focuses on imparting skill-based education on the models of National Occupational Standards (NOS). It provides Entrepreneurship Orientation to the students.

The Community College of Skill Development was started in the year 2013 with six-month Advance Certificate Course in Welding and Electrician. From session 2014-15, the college is offering one year diploma course in welding and electrician with intake of 50-50 students each. It had marked a special achievement with cent per cent placement of its students. In the session 2016-17, the College started Diploma in Refrigeration and Air-conditioning under MoU with Daikin. Then, in the session 2018-19, the College has started certificate courses, Diploma courses, Advanced Diploma and Bachelor in Vocation (B. Voc.) courses.

Visualizing the need of the future, CCSD started a versatile PG Diploma in Data Science and Analytics and PG Diploma in Yoga Science and Naturopathy from the session 2019-20.

The continually rise in the number of skill courses and producing large number of skilled students, CCSD is warmly contributing in government Skill India program.

### **2. VISION**

“Community College of Skill Development aspires to be a national leader in skill development in all spheres which transforms the life of students through the integration of skill, training and character building.”

### **3. MISSION**

- To provide an academically conducive environment, to generate future leaders and professionals of 21st Century.
- To nurture talent of underprivileged section of the society and transforms the lives of millions through academic excellence.
- To incorporate specific need-based education and training opportunities for skill up gradation.



**4. ADVISORY COUNCIL**

Sr. No.	Name	Department and designation
1.	Prof. S. K. Tomar	Hon'ble Vice Chancellor, J. C. Bose University of Science and Technology, YMCA, Faridabad
2.	Dr. S. K. Garg	Registrar, J. C. Bose University of Science and Technology, YMCA, Faridabad
3.	Dr. Komal Bhatia	Dean, FIC, J. C. Bose University of Science and Technology, YMCA, Faridabad
4.	Dr. Rajeev Kumar Singh	COE, J. C. Bose University of Science and Technology, YMCA, Faridabad
5.	Sh. Nitin Goel	Vice Principal, CCSD
6.	Mr. Manish Dubey	DGM, NSIC Neemka
7.	Sh. V. Valliappan	Deputy General Manager, JCB India Private Limited
8.	Dr. S. K. Goel	Executive Director, Star Wire Limited
9.	Mr. Sumit Kumar	Representative of ISHARE
10.	Mr. Sanjeev Aggarwal	Representative of Industries
11.	Dr. Sanjeev Goyal	Principal, Community College of Skill Development

**5. BOARD OF STUDIES**

Sr. No.	Name	Department and designation
1.	Dr. Sanjeev Goyal	Principal, Community College of Skill Development
2.	Sh. Nitin Goel	Vice Principal, CCSD
3.	Mr. Pankaj Munjal	Director, DOT Software Solutions
4.	Mr. Sandeep Dutta	AGM, Escorts Limited
5.	Mr. Prabhakar Yadav	COO, Durga Threading Tools
6.	Dr. Sandhya Chintala	CEO, NASSCOM
7.	Mr. Anand Kumar Singh	CEO, Construction
8.	Ms. Richie	Co-ordinator, ASDC
9.	Ms. Sandhya Dixit	Assistant Professor, Department of Mechanical Engineering, JCBUST, YMCA
10.	Dr. Anju Gupta	Associate Professor, Department of Mechanical Engineering, JCBUST, YMCA



## 6. COURSES AND INTAKE DETAILS (YEARWISE COURSE DETAILS)

Sr. No.	Courses	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
1.	Certificate Electrician	NIL	NIL	✓	✓	NIL	NIL
2.	Certificate RAC (C-RAC)	NIL	NIL	✓	✓	NIL	NIL
3.	Diploma in Computer software hardware and networking (CSHN)	NIL	NIL	✓	✓	NIL	NIL
4.	Diploma in Welding	✓	✓	NIL	NIL	NIL	NIL
5.	Diploma in Electrician*	✓	✓	✓	✓	✓	
6.	Diploma in Web Designing*	NIL	NIL	✓	✓	✓	✓
7.	Diploma in Yoga and Naturopathy	NIL	NIL	✓	✓	✓	✓
8.	Diploma in Refrigeration and Air Conditioning	✓	✓	✓	✓	✓	
9.	B. Voc. Web Development*	NIL	NIL	✓	✓	✓	✓
10.	B. Voc. Automobile*	NIL	NIL	✓	✓	✓	✓
11.	B. Voc. Electrical*	NIL	NIL	✓	✓	✓	✓
12.	B. Voc. Manufacturing*	NIL	NIL	✓	✓	✓	✓
13.	B. Voc. Automotive Manufacturing Technology (AMT)**	NIL	NIL	NIL	NIL	✓	✓
14.	B. Voc. Banking, Finances Services and Insurance (BFSI)**	NIL	NIL	NIL	NIL	✓	✓
15.	PG Diploma in Data Science & Analytics*	NIL	NIL	NIL	✓	✓	✓
16.	PG Diploma in Yoga Science & Naturopathy	NIL	NIL	Vb	✓	✓	✓

\* UGC Approved  
Approved

\*\* AICTE

## 7. COURSES DURING THE YEAR 2021-22 (COURSE OFFERED AT PG LEVEL)

Sr. No.	Courses	Duration	Intake	Student Admitted
1.	Data Science & Analytics	1 year	20	20
2.	Yoga Science & Naturopathy	1 year	50	26

## 8. COURSES DURING THE YEAR 2021-22 (COURSE OFFERED AT UG LEVEL)

Sr. No.	Courses	Duration	Intake	Student Admitted
1.	B. Voc. Web Development	3 years	50	50
2.	B. Voc. Automobile	3 years	50	50
3.	B. Voc. Electrical	3 years	50	39
4.	B. Voc. Manufacturing	3 years	50	42



5.	B. Voc. Automotive Manufacturing Technology (AMT)	3 years	60	NIL
6.	B. Voc. Banking, Finances Services and Insurance	3 years	60	60

### 9. COURSES DURING THE YEAR 2021-22 (COURSE OFFERED AT DIPLOMA LEVEL)

Sr. No.	Courses	Duration	Intake	Student Admitted
1.	Web Designing	1 year	50	9
2.	Electrician	1 year	50	NIL
3.	Yoga and Naturopathy	1 year	50	28
4.	Refrigeration and Air Conditioning (RAC)	1 year	50	NIL

### 10. PASSING AND PLACEMENT DETAILS 2021-22

Session	Name Of The Diploma Course	Approved Intake	Total Passed	No. Of Students Placed
2021-22	Diploma in Web Designing	50	08	Opted for Higher Studies
	Diploma in Yoga Science & Naturopathy	50	09	Self-employed.
	PG Diploma in Yoga Science & Naturopathy	50	14	Self-employed
	PG Diploma in Data Science & Analytics	20	06	06 placed
	B.Voc Automobile	50	11	5 placed, 3 opted for higher studies and 2 preparing for Govt Jobs
	B.Voc Manufacturing	50	8	4 placed, 3 preparing for Govt Jobs
	B.Voc Electrical	50	6	1 placed, 2 opted for higher studies and 3 preparing for Govt Jobs
	B.Voc Web Development	50	20	7 placed, 9 opted for higher studies and 4 preparing for Govt Jobs

### 11. DEPARTMENTAL FACILITIES

The department is well equipped with the following facilities:

Sr. No.	Facility	Count/ Details
1.	Computer Labs	1
2.	Lecture Halls	7
3.	Smart Class Rooms	3
4.	Faculty room	2
5.	Internet Connection	Yes
6.	Any other facilities	Schedule of Workshop at NSIC, Neemka



### 12. WORKSHOP/STC/INVITED TALKS/OTHER ACTIVITIES CONDUCTED

Sr. No.	Name of the Activity	Title	Name of the Expert	Designation and Association	Dates
1.	Expert Lecture	ITR Minting and Filing	Mr. Tanuj Bansal	Associate Manager at BYJU'S Exam Prep, UGC-NET qualified, MBA (Finance, HR)	12th Jan, 2022
2.	Expert Lecture	Statics with R Language	Mr. Abhishek Agnihotri	Data Scientist	05/02/2022 and 06/02/2022
3.	Expert Lecture	Tableau Software	Mr. Deepak Chauhan	Corporate Trainer	25/01/2022 and 27/01/2022

### 13. VALUE ADDED COURSE CONDUCTED IN 2020-21

Sr. No.	Name of the VAC	Duration	Offered to	Dates
1.	Workshop on CNC Machine	45 Hours	B.Voc Automobile	06-10 Dec, 2021
2.	Workshop on Measuring Instruments	45 Hours	B.Voc Manufacturing	06-10 Dec, 2021

### 14. MEMORANDUM OF UNDERSTANDING (MOU's) SIGNED IN 2020-21

Sr. No.	Organization	Objective
1.	Vee Gee Industries Pvt. Ltd.	Training and placement of students
2.	Hind Hydraulics Pvt. Ltd.	Training and placement of students
3.	M V Electro Pvt. Ltd.	Training and placement of students



## **STUDENT ACTIVITES**





## DEAN STUDENT WELFARE STUDENTS ACTIVITIES (2020-21)

**Dean Student Welfare: Prof. Lakhwinder Singh**  
**Deputy Dean Student Welfare: Dr. Shilpa Sethi**

### 1. INTRODUCTION

The Student Welfare Cell is highly committed to excellence of its students in co-curricular activities such as cultural/ Technical and sports. The university has made significant progress in establishing sports facility in last decade. Our university students also secured good ranks in various technical, sports and cultural activities organized at state or national level tournaments.

### 2. CONSTITUTION

Designation	Name of Faculty
Dean Student Welfare	Prof. (Dr) Lakhwinder Singh (Professor, Mech. Engg.)
Director, Cultural Activities and Youth Affairs	Dr. Pardeep Dimri, Professor Electronics and Communication Engg.)
Deputy Dean Student Welfare	Dr. Sonia Bansal , Associate Professor(Physics)
Deputy Dean Student Welfare	Dr. Shilpa Sethi, Associate Professor (CA)
Dean Student Facilities	Dr. Harish Kumaar , Associate Professor (CE)
Director, Social Responsibility Activities	Dr. Krishan Verma, Assisstant professor (Mechanical Engg.)

### Detail of Cubs, Faculty Coordinators & Student Coordinators Along With Their Contact Number

Sr. No.	Name of Club	Name of Faculty Coordinator / Co-coordinator	Contact No of Faculty Coordinator / Co-coordinator	Name of J Sec (Student Coordinator)	Contact number of J Sec
<b>Cultural Clubs</b>					
1	Tarunnam	Dr. Jyotsana Chawla	9990234880	Ritika, Pranjal	8920490563, 9971771819
2	Niramayam	Dr. Sachin Gupta (AR exams), Dr. Jyoti Mor (DR Acd)	9896048093, 9560150070	Sejal, Sunita,	9050909987, 9540697820
3	Vividha	Dr. Sangeeta Dhull, Ms. Lavita Virmani	9910747602, 9050939606	Vinit, Dakshita	8053776082, 8826008462
4	Nataraja Western	Dr. Rashmi Popli, Dr. Raveena (both from CE Dept)	9810862658, 9999984364	Niharika, Divya	8700309567, 9650449231
5	Nataraja Haryanvi			Jyoti, Kajal	9050558673, 8307793703
6	Nataraja Bhangra			Srishti, Mehak	7404877670, 9899200910
7	Jhalak	Dr. Umesh	9810794167	Nakshatra	8570051907
8	Srijan	Dr. Preeti	9810374948	Mohit, Yatharth	9540946399, 9971707377



9	Ethicraft Club	Dr. Kalpana Sheokand, Dr. Lalit Mohan Goyal, Dr. Anubha Gautam	8920544024, 8882212748, 9990287227	Kunal, Elesh	9873789074, 7082629964
10	Vivekanand Manch	Prof. Pradip Dimri, Dr. Suraj Goyal	9968433183, 9417728292	Hari, Jaishree	8569965992, 9667018255
11	Ananya, the Unparalleled	Dr. Ashlesha	9891466310	Harsh, Rohit	9971389307, 7206665945
12	Vasundhra Eco-Club	Dr. Renuka Gupta	9999692469	No idea abt the student coordinators	
<b>Sports Club</b>					
13	Eklavya Club	Dr. Sunita Koak	9968676459	No idea of Student coordinator, as there are 4 teams	
<b>Technical Clubs</b>					
14	IEEE	Dr. Rashmi Aggarwal, Dr. Mamta Kathuria, Dr. Lalit Mohan Goyal	9891595209, 7015106142, 8882212748	Bhargavi, Narayan	9416972021, 8178375282
15	Mechnext	Dr. Sanjay Kumar	7838721130	Animesh, Umesh	8222900727, 9354811161
16	Microbird	Mr. Mukesh Garg, Ms. Poulami Jana	9891553044, 9818318345	Saket, Jayant	9810379604, 9588149768
17	Samarpan	Ms. Manju, Ms. Rachna	9891659175, 8585972708	Himanshu, Pankaj	9773819027, 9996821094
18	Manan	Dr. Anuradha Pillai	9810646641	No idea abt the student coordinators	
19	GDSC	Dr. Anuradha Pillai , Ms. Monika	9810646641, (no number of Monika Mam)	Himanshi,	9070999550
20	SAE BAHA	Dr. Nikhil Dev (ME Dept)	9711812394		
21	SAE IJYA			Saurabh Nain	9315550564,
22	SAE SUPRA				
<b>CELLS</b>					
23	NCC	Dr. Krishan kr. Verma, Dr. O. P. Mishra	9896596710, 9818602901	Verma sir sends himself the papers n bills, no idea abt the student coordinator	
24	NSS	Dr. Pradip Dimri	9968433183	Nitin, Satish	7988234409, 9667785484
25	YRC	Dr. Navish Kataria (from EVS Dept), Ms. Pooja (from Chemistry dept)	9017125821, 7289087736	Sushil Sir (from CE dept brings himself all the papers n bills, no idea abt the student coordinator	

### 3. DETAILS OF EVENTS CONDUCTED BY DSW OFFICE DURING 2021-2022

Sr. No.	EventDate	Title
1.	01/07/2021	Doctor'sDay
2.	03/07/2021 to 04/07/2021	OpampSession
3.	04/07/2021	BriefOverviewOfStepsInvolvedinSongMaking



4.	07/07/2021	Micro-tale(Internal Session)
5.	10/07/2021 to 11/07/2021	EmbeddedSystems:Transpiringthefuture...
6.	11/07/2021	Group Discussion (Internal Session)
7.	13/07/2021 to 20/07/2021	MEMEBAAZI-TheIntercollegiateMemeCompetition
8.	15/07/2021	<b>NationalCadetCorpsFoundationDay</b>
9.	17/07/2021 to 01/08/2021	Cover-Up
10.	18/07/2021	VirtualForum:IEEEasaCareerGrowth
11.	18/07/2021	AzadiKaAmritMahotsav Report
12.	18/07/2021 to 25/07/2021	555TimerIC
13.	19/07/2021	CelebrationofIndia's75yearsofindependence- "Azadika Amrut Mahotsav"
14.	20/07/2021 to 21/07/2021	PoetryandExtemporecompetition(under the banner of Literary & Debating Festival: Crescendo '21)
15.	23/07/2021 to 24/07/2021	CreativeWritingforKargilVijayDiwasand Turncoat, under Literary & Debating Festival: Crescendo' 21
16.	24/07/2021 to 25/07/2021	DesignThinkingWorkshop(In-House)
17.	24/07/2021	WeekendLearningMania...
18.	25/07/2021	DATA ACQUISITION WORKSHOP
19.	25/07/2021	Resume Review
20.	26/07/2021	शहीद
21.	27/07/2021 to 28/07/2021	Encoders&Motors
22.	27/07/2021	POEMCOMPOSITIONCOMPETITION
23.	28/07/2021	IMPORTANCEOFWORLDHEPATITISDAY
24.	29/07/2021	Virtual Visit to ATLAS, CERN...
25.	31/07/2021 to 01/08/2021	Anonlineworkshopon PCBDesignand Fabrication
26.	31/07/2021 to 01/08/2021	ModelBasedDesigningand PIDTuning Workshop
27.	01/08/2021	Learningtheheartofscriptwriting
28.	07/08/2021 to 10/08/2021	PCBTask
29.	07/08/2021	Robotronics...
30.	08/08/2021	BBC Discussion (Internal Session)
31.	12/08/2021	<b>Librarian'sDay</b>
32.	14/08/2021	AdvG- Bally Hoo! An AdMad competitionertising and Short Film Makin
33.	15/08/2021 to 03/09/2021	Escalade 10.0 [iit guwahati]
34.	15/08/2021	Independence dayperformance NatarajaWestern(TheDanceSociety)
35.	15/08/2021	Independence dayperformance Nataraja-TheDancesociety(Bhangra)
36.	15/08/2021	Independence day- Tarannum-TheMusicSociety
37.	16/08/2021 to 16/09/2021	Donation drive
38.	23/08/2021	AtamNirbharHaryana
39.	29/08/2021	"Limelight"
40.	03/09/2021	Escalade2021(IITGuwahatiRoboticsCompetition)
41.	10/09/2021	Group Discussion (Internal Session)
42.	12/09/2021	UniversalBrotherhoodDay
43.	16/09/2021	Website Launch
44.	16/09/2021	FoundationDay- SAMARPANTheTechnophilia



45.	16/09/2021	Foundation'sDay- SRIJAN-FINEARTSSOCIETY
46.	16/09/2021	Foundation'sDay- Tarannum-TheMusicSociety
47.	16/09/2021	Foundation'sDay - NatarajaWestern(TheDanceSociety)
48.	16/09/2021	Micro Fit Buddy
49.	16/09/2021	FIEEEGMA
50.	16/09/2021	ProjectShowcasing:MarsRover
51.	17/09/2021 to 12/10/2021	ValueAddedCourseonअनुशासनमस्वास्थ्यमआरोग्यम्
52.	19/09/2021	PanelDiscussiononCollegeLife, Trainingand placements
53.	20/09/2021	Orphanage Visit
54.	22/09/2021	WorldCarFreeDay
55.	25/09/2021	INVITATIONALFOOTBALLTOURNAMENT
56.	25/09/2021	MUNTrainingSession
57.	26/09/2021	AIPPMTrainingSession
58.	27/09/2021 to 05/10/2021	Cryptic Battle
59.	27/09/2021 to 02/10/2021	Techno-Mania
60.	27/09/2021	LokSabha Training Session
61.	29/09/2021	FitIndiaRun2.0
62.	07/10/2021 to 10/10/2021	GLOBALYOUNGLEADERCONCLAVE2021
63.	15/10/2021 , 17/10/2021, 20/10/2021	CAD WORKSHOP
64.	17/10/2021	SevenSegmentDisplaysession
65.	18/10/2021	INVITATIONALINTERUNIVERSITYBADMINTON TOURNAMENT
66.	19/10/2021 to 22/10/2021	YRCAdventureCumTrainingCamp
67.	23/10/2021	AlumniMeet Performance
68.	23/10/2021	MOBALUMNIMEET2021- Tarannum-TheMusicSociety
69.	23/10/2021	MobAlumniMeet 2021- Nataraja-TheDancesociety(Bhangra)
70.	30/10/2021 to 08/11/2021	THEMONOACTCOMPETITION2021
71.	26/10/2021	DistrictSeniorKabaddiChampionship
72.	28/10/2021	PCBfabricationworkshop
73.	25/10/2021	ABHIVYAKTI,AMonoactandStorytellingCompetition
74.	30/10/2021	STATEKICKBOXINGCHAMPIONSHIP
75.	31/10/2021	LED Matrix
76.	31/10/2021	AzadiKeAmrutMahotsavCulturalEvening
77.	06/11/2021 to 07/11/2021	PROJECT – RC PLANE
78.	15/11/2021 to 30/11/2021	Concord2.0
79.	20/11/2021 to 21/11/2021	PCBify with Altium
80.	20/11/2021 to 21/11/2021	PCBWAR'21
81.	22/11/2021	INTERCOLEGEKABADDICOMPETITON
82.	25/11/2021	INTERCOLEGEYOGACOMPETITON
83.	26/11/2021	INTERCOLEGECHESSCOMPETITON
84.	27/11/2021	In-houseAfterEffectsandInternettetemplatesWorkshop
85.	27/11/2021	INTERCOLEGEBOXINGCOMPETITON
86.	30/10/2021	STATEKICKBOXINGCHAMPIONSHIP
87.	30/11/2021 to 01/12/2021	INTERCOLLEGECRICKETTTOURNAMENT
88.	02/12/2021 to 09/12/2021	M.A.D
89.	02/12/2021	INTERCOLEGE BASKETBALLCOMPETITON



90.	02/12/2021	INTERCOLEGEVOLLEYBALLCOMPETITON
91.	04/12/2021	InterCollegePowerliftingandWeightliftingCompetition
92.	05/12/2021	AjaAutomobileRepairing Advertisement
93.	05/12/2021	StudentInductionProgram2021
94.	06/12/2021	StudentInductionProgram2021
95.	06/12/2021 to 07/12/2021	SnakeXenzia
96.	06/12/2021 to 07/12/2021	LED Cube & Bat Mobile
97.	07/12/2021	GuruMaaMonoact
98.	10/12/2021	INTERCOLEGEBADMINTONCOMPETITON
99.	10/12/2021	INTERCOLEGEFOOTBALLCOMPETITON
100.	10/12/2021	INTERCOLEGETABLETENNISCOMPETITON
101.	17/12/2021	TAMASHA-Nukkad Natak
102.	21/12/2021	GREENPROPULSION
103.	24/12/2021	interactivemeet
104.	28/12/2021	'GeetaMahotsav2021'
105.	06/12/2021	NATARAJA(Bhangra)Dance
106.	07/12/2021	StudentInductionProgram2021NIRAMAYAM-TheYogaClub
107.	25/12/2021	SIEPHEROE-BIKECHALLENGESEASON2.0
108.	05/01/2022	BuiderBridge-aCADDesigningIITGOA
109.	07/01/2022	ALLINDIAINTER-UNIVERSITYFENCING CHAMPIONSHIP
110.	12/01/2022	Yuvadivas
111.	12/01/2022	NationalEnvironmentYouthParliament2022 NurturingEnvironmentLeaders
112.	12/01/2022	YouthDay
113.	13/01/2022	Youthparliament(YUVALIANT2.0)
114.	15/01/2022	NATIONALYOUTHDAY
115.	18/01/2022	INTERACTIVEMEET22
116.	23/01/2022	Aagaj
117.	23/01/2022	FreshersMeet
118.	23/01/2022	AghazNetajiSubhashChandraBoseJayanti
119.	26/01/2022	RepublicDayCelebration
120.	26/01/2022	SuryaNamaskar
121.	27/01/2022	NORTHZONEALLINDIAINTER-UNIVERSITY KABADDICHAMPIONSHIP
122.	30/01/2022	AnodetoMartyrs
123.	30/01/2022	Martyrs
124.	04/02/2022	E3-ElementsofElectronicsandElectricals
125.	08/03/2022	NukkadNatak
126.	08/03/2022	WomensDayDancePerformance(Nataraja Western)
127.	23/03/2022	PosterMakingCompetitiononShaheediDiwas
128.	07/04/2022	HealthAwarenessCamp
129.	13/04/2022	Baisakhperformance
130.	28/04/2022	ScienceConclave
131.	28/04/2022	PanelDiscussionQuizonPoweringaSustainable Future

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132.	07/05/2022	MechatronicsWorkshop
133.	12/05/2022	JABWEDANCE(Excelsior2K22)-Technocultural fest
134.	13/05/2022	PosterMakingCompetition
135.	13/05/2022	YogaAsanaCompetition
136.	13/05/2022	WorkshopQuizonCyberSecurity
137.	19/05/2022	ELECTROMANIAWorkshop
138.	21/06/2022	InternationalDayofYoga
139.	30/06/2022	DECODINGENCODERSWorkshop
140.	26/01/2022	REPUBLICDAY2022



## ACADEMIC SECTION

### 1. INTRODUCTION

The Academic Branch of the University mainly handling the work related to preparation of Information Brochure, making admissions, maintaining category-wise data of students, deposit and refund of fee, preparation and issue of Academic Calendar, compiling attendance and issue of detainee notice, and updating the scheme & syllabi on the portal. Holding of meetings of Academic Council, implementation of decisions w.r.t. start of new courses, closing/merging of courses, increase/decrease of intake. To apply with AICTE for grant of extension of approval. To provide necessary help for accreditation by NBA/NAAC and preparation of Annual Report of the University.

### 2. DETAILS OF STAFF

Sr. No.	Name	Designation	Working from (DDMMYYYY)
1.	Dr. Vikash Turk	Dean, Academic Affairs	(up to March-2022)
2.	Dr. Ashutosh Dixit	Dean, Academic Affairs	(From April -2022 onwards)
3.	Sh. Manish Gupta	Dy. Registrar	From Feb-2022
4.	Dr. Jyoti Mor	Asstt. Registrar	2021-22
5.	Sh. Satyapal Kalyan	Personal Assistant	2021-22
6.	Sh. Sanjay Singh	Superintendent	2021-22
7.	Smt. Renu Chawla	Personal Assistant	2021-22
8.	Smt. Richa Rani	Sr. Steno	2021-22
9.	Sh. Balwan Singh	Clerk	2021-22
10.	Sh. Kishan Singh	Clerk	2021-22
11.	Sh. Parvesh Thakur	Clerk	2021-22
12.	Sh. Surender Kumar	Peon in Academic Section	2021-22
13.	Sh. Tulsi	Peon to DAA	2021-22

### 3. PROGRAMMES OFFERED

Sr. No.	NAME OF THE PROGRAMME	DEPARTMENT	INTAKE
1.	B.Com. (BACHELOR OF COMMERCE (Hons))	Management Studies	60
2.	B.SC. (ANIMATION AND MULTIMEDIA)	Communication & Media Technology	35
3.	B.SC. (Chemistry )	Chemistry	60
4.	B.SC. (Life Sciences)	Life Science	60
5.	B.SC. (Mathematics )	Mathematics	60
6.	B.SC. (Physics )	Physics	60
7.	B.Tech. (Civil Engineering)	Civil Engineering	60
8.	B.Tech. (Computer Engineering With Specialization in Data Science)	Computer Engineering	60
9.	B.Tech. (Computer Engineering)	Computer Engineering	120
10.	B.Tech. (Computer Engineering with Hindi Medium)	Computer Engineering	30
11.	B.Tech. (Electrical Engineering)	Electrical Engineering	60
12.	B.Tech. (Electronics & Communication Engineering)	Electronics Engineering	60
13.	B.Tech. (Electronics & Computer Engineering)	Electronics Engineering	60
14.	B.Tech. (Electronics Engineering) with IOT	Electronics Engineering	60





15.	B.Tech. (Environmental Engineering)	Civil Engineering	30
16.	B.Tech. (Information Technology)	Computer Engineering	60
17.	B.Tech. (Mechanical Engineering)	Mechanical Engineering	120
18.	B.Tech. (Mechanical Engineering with Hindi Medium)	Mechanical Engineering	30
19.	B.Tech. (Robotics and Artificial Intelligence)	Mechanical Engineering	30
20.	BA (Bachelor of Social Work)	Communication & Media Technology	45
21.	BA (Journalism & Mass Communication)	Communication & Media Technology	40
22.	BBA (BBA )	Management Studies	60
23.	BCA (BCA)	Computer Application	60
24.	M.SC. (Animation Multimedia)	Communication & Media Technology	20
25.	MA -JMC	Communication & Media Technology	30
26.	MA-English	Communication & Media Technology	35
27.	M.SC. (Biotechnology)	Life Sciences	20
28.	M.SC. (Botany)	Life Sciences	20
29.	M.SC. (Chemistry)	Chemistry	60
30.	M.SC. (Environmental Sciences)	Environmental Science & Study	35
31.	M.SC. (Mathematics)	Mathematics	60
32.	M.SC. (Microbiology)	Life Sciences	20
33.	M.SC. (Physics)	Physics	60
34.	M.SC. (Zoology)	Life Sciences	20
35.	M.Tech. (Computer Engineering)	Computer Engineering	18
36.	M.Tech. (Computer Science & Engineering)	Computer Engineering	18
37.	M.Tech. (Electronics & Communications Engineering)	Electronics Engineering	18
38.	M.Tech. (VLSI)	Electronics Engineering	18
39.	M.Tech. (Energy & Environmental Engineering)	Energy Studies	18
40.	M.Tech. (Power Electronics)	Electrical Engineering	18
41.	M.Tech. (Mechanical Engineering Manufacturing and Automation Technology)	Mechanical Engineering	18
42.	MBA (FM/HRM/MM)	Management Studies	60
43.	MBA (Executive)	Management Studies	60
44.	MCA	Computer Application	60
45.	B.Voc- Automotive Manufacturing Technology (ATM)	Community College of Skill Development	60
46.	B.Voc-Banking Financial Services and Insurance (BFSI)	Community College of Skill Development	60
47.	B.Voc- Manufacturing	Community College of Skill Development	50
48.	B.Voc- Automobiles	Community College of Skill Development	50
49.	B.Voc- Electrical	Community College of Skill Development	50
50.	B.Voc- Web Development	Community College of Skill Development	50





51.	Diploma- Electrician	Community College of Skill Development	50
52.	Diploma- Web Design	Community College of Skill Development	50
53.	Diploma- Refrigeration & Air Conditioning	Community College of Skill Development	50
54.	Diploma- Yoga and Naturopathy	Community College of Skill Development	50
55.	PG Diploma- Data Science and Analytics	Community College of Skill Development	20
56.	Ph.D- Chemistry	Chemistry	NA
57.	Ph.D- Computer Engineering	Computer Engineering	NA
58.	Ph.D- Electrical Engineering	Electrical Engineering	NA
59.	Ph.D- Electronics Engineering	Electronics Engineering	NA
60.	Ph.D- English	Literature and Languages	NA
61.	Ph.D- Environmental Science	Environmental Science & Engineering	NA
62.	Ph.D- Mathematics	Mathematics	NA
63.	Ph.D- Management	Management Studies	NA
64.	Ph.D- Mechanical Engineering	Mechanical Engineering	NA
65.	Ph.D- Physics	Physics	NA

**4. NEW PROGRAMME STARTED**

Sr. No.	Name Of The Programme	Department	Intake
1.	B.Tech Computer Engg. (Hindi Medium)	Computer Engg.	30
2.	B.Tech Mechanical Engg. (Hindi Medium)	Mechanical Engg.	30
3.	B.Tech Robotics & Artificial Engg.	Mechanical Engg.	30
4.	B.Tech Environmental Engg.	Environmental Science & Engg.	30
5.	B.Sc Life Science	Life Sciences	60
6.	B.Com (H)	Management Studies	60
7.	BA-Social Science	Communication & Media Technology	35

**5. STUDENTS ADMITTED: CATEGORY WISE 2021-22**

Sr. No.	Course	Appli cation Recei ved	RO HC	HOG C	SC/S T	BC	BC- A	BC- B	PH	EW S	SG C	CA S	Gran d Total
1.	B.Com. (BACHELOR OF COMMERCE (Hons))		21	16	10		7	6		5			65
2.	B.SC. (ANIMATION AND MULTIMEDIA)			27	5		5	3		4	1		45
3.	B.SC. (Chemistry )		13	25	10	1	5	4		7	1		66
4.	B.SC. (Life Sciences)		22	25	2		1	3		5			58



5.	B.SC. (Mathematics )		17	19	10	4	5	4		5	1	1	66
6.	B.SC. (Physics )		32	18	5		2	1		5			63
7.	B.Tech. (Civil Engineering)		17	19	12	3	8	7		5			71
8.	B.Tech. (Computer Engineering Hindi Medium)		10	10	2			1		1			24
9.	B.Tech. (Computer Engineering With Specialization in Data Science)		24	15	10	6	8	2	1	6			72
10.	B.Tech. (Computer Engineering)		41	45	16	11	9	8	2	12			144
11.	B.Tech. (Electrical Engineering)		33	13	9	4	6	2		7			74
12.	B.Tech. (Electronics & Communication Engineering)		28	14	9	3	7	5	1	6			73
13.	B.Tech. (Electronics & Computer Engineering)		24	18	10	8	4	2		6			72
14.	B.Tech. (Electronics Engineering)		24	17	9	5	5	6		7			73
15.	B.Tech. (Environmental Engineering)		6	4	1	4	1			4			20
16.	B.Tech. (Information Technology)		28	12	11	8	6	1		6			72
17.	B.Tech. (Mechanical Engineering Hindi Medium)		1	7	3		1						12
18.	B.Tech. (Mechanical Engineering)		47	40	18	5	14	9		11			144
19.	B.Tech. (Robotics and Artificial Intelligence)		11	6	5		5	2		3			32
20.	BA (Bachelor of Social Work)			23	1		1						25
21.	BA (Journalism & Mass Communication)		5	35	4		1	1		3	1		50
22.	BBA (BBA )		13	20	9	5	7	5	1	6	1		67
23.	BCA (BCA)		11	24	10	1	9	5		6	1		67
24.	M.SC. (Animation Multimedia)		1	7	3		1	1					13
25.	M.SC. (Biotechnology)		4	8	4		1	3		2	1		23
26.	M.SC. (Botany)		7	7	4		1	1		2			22
27.	M.SC. (Chemistry)		8	25	12	2	7	5		8	1		68



28.	M.SC. (Environmental Sciences)		21	13						3			37
29.	M.SC. (Mathematics)		18	21	8	1	3	7		6			64
30.	M.SC. (Microbiology)		5	6	4		4	1		2			22
31.	M.SC. (Physics)		14	26	7		9	4		6			66
32.	M.SC. (Zoology)		7	6	4		3			2	1		23
33.	M.Tech. (Computer Science & Engineering)		9	6	2								17
34.	M.Tech. (Electronics & Communications Engineering)		1	2	1								4
35.	M.Tech. (Energy & Environmental Engineering)		17	1									18
36.	M.Tech. (Mechanical Engineering Manufacturing and Automation Technology)		5	8	1			1					15
37.	M.Tech. (Power Electronics & Drives)		1	3									4
38.	M.Tech. (VLSI DESIGN)		1	3									4
39.	MA (English)			18	1		1	2					22
40.	MA (Journalism & Mass Communication)		6	13	2			2			1		24
41.	MBA (MBA Executive)		7	13									20
42.	MBA I		11	26	9		8	6		6			66
43.	MBA II		13	22	10		8	7		6	1		67
44.	MCA (MCA (2 year))		10	26	9		8	6		6			65

**CATEGORY:** RoHC: Rest of Haryana, HOGC: Haryana Open General Category (General), SC/ST: Scheduled Castes/Tribe, BCA: Backward Classes (A), BCB: Backward Classes (B), PH: Physically Handicapped, EWS: Economically Weaker Sections, SGC: Single Girl Child, COV: COVID Affected Student, FS: Foreign Student (Please add, if left any)

**6. STUDENTS ON ROLL IN ALL COURSES: CATEGORY WISE (2021-2022)**

Program	ROHC	HOGC	SC	BC	BC-A	BC-B	PH	EWS	SGC	CA S	F S	Grand Total
B.Com. (BACHELOR OF COMMERCE (Hons))	21	16	10		7	6		5				65
B.SC. (ANIMATION AND MULTIMEDIA)	4	71	13		12	10		11	3			124
B.SC. (Chemistry )	26	88	23	6	15	14		19	3			194
B.SC. (Mathematics )	30	84	29	4	17	8	1	18	2	1		194
B.SC. (Physics )	52	76	17	1	17	9		16	1			189



B.SC. (Life Sciences)	22	25	2		1	3		5				58
B.Tech. (Computer Engineering Hindi Medium)	10	10	2			1		1				24
B.Tech. (Computer Engineering)	114	207	73	34	41	35	5	37			2	548
B.Tech. (Computer Engineering With Specialization in Data Science)	39	35	19	11	15	4	2	10				135
B.Tech. (Civil Engineering)	66	85	41	26	20	11	1	16				266
B.Tech. (Electronics & Computer Engineering)	58	61	32	18	13	5		17				204
B.Tech. (Electronics & Communication Engineering)	74	80	39	15	22	17	2	17				266
B.Tech. (Electrical Engineering)	83	75	40	21	20	11	1	17				268
B.Tech. (EIC)	25	54	18	11	8	8		6				130
B.Tech. (Environmental Engineering)	6	4	1	4	1			4				20
B.Tech. (Electronics Engineering)	39	35	17	12	9	8		12				132
B.Tech. (Information Technology)	67	84	43	15	28	15	1	17				270
B.Tech. (Mechanical Engineering Hindi Medium)	1	7	3		1							12
B.Tech. (Mechanical Engineering)	122	185	78	27	48	30		35				525
B.Tech. (Robotics and Artificial Intelligence)	11	6	5		5	2		3				32
BA (Journalism & Mass Communication)	10	95	10		7	6		8	2			138
BA (Bachelor of Social Work)		23	1		1							25
BBA (BBA )	33	65	27	11	19	16	2	16	3			192
BCA (BCA)	27	84	27	11	20	12		16	3			200
M.SC. (Animation Multimedia)	1	7	3		1	1						13
M.SC. (Microbiology)	14	11	7	1	4	3		4				44
M.SC. (Botany)	17	14	6	1	1	1		4				44
M.SC. (Biotechnology)	12	14	5	3	2	3		4	2			45
M.SC. (Chemistry)	15	53	20	8	13	7		14	2			132
M.SC. (Environmental Sciences)	40	24	2		1	1		6				74
M.SC. (Mathematics)	29	57	11	2	7	10		9				125



M.SC. (Physics)	30	45	15		16	11		12				129
M.SC. (Zoology)	15	13	4	4	4			4	1			45
M.Tech. (CE)		16	1									17
M.Tech. (Computer Science & Engineering)	11	18	4			2		2				37
M.Tech. (Electronics & Communications Engineering)	3	5	1		1	1						11
M.Tech. (Energy & Environmental Engineering)	24	3				1						28
M.Tech. (Mechanical Engineering Manufacturing and Automation Technology)	5	8	1			1						15
M.Tech. (Mechanical Engineering Manufacturing and Automation Technology)	4	10	1		1	1		2				19
M.Tech. (Power Electronics & Drives)	5	5										10
M.Tech. (VLSI DESIGN)	3	6	1		1							11
MA (English)	2	28	1		1	3		2				37
MA (Journalism & Mass Communication)	6	23	3			2			1			35
MBA I	19	53	19		16	11	1	12				131
MBA (MBA Executive)	17	30		1								48
MBA II	21	48	19		20	11		12	1			132
MCA	6	41	2		10	3		7				69
MCA (MCA (2 year))	19	62	12	7	11	7		10				128
Grand Total	1258	2149	708	254	457	311	16	410	24	1	2	5590

**CATEGORY:** RoHC: Rest of Haryana, HOGC: Haryana Open General Category (General), SC/ST: Scheduled Castes/Tribe, BCA: Backward Classes (A), BCB: Backward Classes (B), PH: Physically Handicapped, EWS: Economically Weaker Sections, SGC: Single Girl Child, COV: COVID Affected Student, FS: Foreign Student (Please add, if left any)

**7. STUDENTS ON ROLL: SEMESTER -WISE IN VARIOUS PROGRAMMES (2021-22)**

Program	Semester- 1		Total	Semester- 3		Total	Semester- 5		Total	Semester- 7		Total	Grand Total
	Male	Female		Male	Female		Male	Female		Male	Female		
B.Com. (BACHELOR OF)	26	40	66										66



COMMERCE (Hons))													
B.SC. (ANIMATION AND MULTIMEDIA)	26	19	45	29	10	39	28	12	40				124
B.SC. (Chemistry)	13	53	66	16	47	63	14	51	65				194
B.SC. (Mathematics)	26	40	66	24	40	64	30	34	64				194
B.SC. (Physics)	28	35	63	19	46	65	36	25	61				189
B.SC. (Life Sciences)	11	47	58										58
B.Tech. (Computer Engineering Hindi Medium)	17	7	24										24
B.Tech. (Computer Engineering)	119	28	147	128	27	155	122	37	159	122	25	147	608
B.Tech. (Computer Engineering With Specialization in Data Science)	54	17	71	55	21	76							147
B.Tech. (Civil Engineering)	60	10	70	59	17	76	61	15	76	59	8	67	289
B.Tech. (Electronics & Computer Engineering)	55	18	73	56	20	76	56	16	72				221



B.Tech. (Electronics & Communication Engineering)	45	25	70	57	19	76	52	21	73	51	18	69	288
B.Tech. (Electrical Engineering)	53	18	71	52	19	71	61	14	75	56	9	65	282
B.Tech. (EIC)							56	17	73	44	19	63	136
B.Tech. (Environmental Engineering)	12	8	20										20
B.Tech. (Electronics Engineering)	48	22	70	57	13	70							140
B.Tech. (Information Technology)	62	11	73	62	14	76	60	13	73	59	15	74	296
B.Tech. (Mechanical Engineering Hindi Medium)	11	1	12										12
B.Tech. (Mechanical Engineering)	120	19	139	129	20	149	113	24	137	118	20	138	563
B.Tech. (Robotics and Artificial Intelligence)	24	9	33										33
BA (Journalism & Mass Communication)	22	28	50	20	26	46	14	28	42				138



cation)												
BA (Bachelor of Social Work)	12	13	25									25
BBA (BBA )	38	30	68	38	24	62	32	31	63			193
BCA (BCA)	35	33	68	39	27	66	38	29	67			201
M.SC. (Animatio n Multimed ia)	10	3	13									13
M.SC. (Microbio logy)	5	17	22	3	19	22						44
M.SC. (Botany)	1	21	22		22	22						44
M.SC. (Biotechn ology)	3	20	23	1	21	22						45
M.SC. (Chemistr y)	17	51	68	11	53	64						132
M.SC. (Environ mental Sciences)	8	29	37	8	29	37						74
M.SC. (Mathema tics)	23	41	64	12	49	61						125
M.SC. (Physics)	24	42	66	16	47	63						129
M.SC. (Zoology)	1	22	23	2	20	22						45
M.Tech. (CE)				9	8	17						17
M.Tech. (Compute r Science & Engineeri ng)	11	6	17	9	11	20						37
M.Tech. (Electroni cs & Communi cations	3	1	4	5	2	7						11





Engineering)												
M.Tech. (Energy & Environmental Engineering)	18		18	8	2	10						28
M.Tech. (Mechanical Engineering Manufacturing and Automation Technology)	13	2	15									15
M.Tech. (Mechanical Engineering Manufacturing and Automation Technology)				18	1	19						19
M.Tech. (Power Electronics & Drives)	4		4	6		6						10
M.Tech. (VLSI DESIGN)	4		4	3	4	7						11
MA (English)	3	19	22	2	13	15						37
MA (Journalism & Mass Communication)	6	18	24	7	4	11						35
MBA I	38	31	69	22	46	68						137
MBA (MBA Executive)	16	4	20	19	9	28						48



)													
MBA II	39	31	70	33	34	67							137
MCA							41	31	72				72
MCA (MCA (2 year))	36	32	68	35	28	63							131
Grand Total	1200	921	2121	1069	812	1881	814	398	1212	509	114	623	583 7

(M-Male, F-Female, T-Total)

45. SANCTIONED AND ADMITTED STRENGTH OF STUDENTS – PROGRAMME-WISE

Sr. No.	Course Name	Sancti oned Intake	Admitted
1.	B.Com. (BACHELOR OF COMMERCE (Hons))	60	66
2.	B.SC. (ANIMATION AND MULTIMEDIA)	35	45
3.	B.SC. (Chemistry )	60	66
4.	B.SC. (Life Sciences)	60	58
5.	B.SC. (Mathematics )	60	66
6.	B.SC. (Physics )	60	63
7.	B.Tech. (Civil Engineering)	60	78
8.	B.Tech. (Computer Engineering Hindi Medium)	30	24
9.	B.Tech. (Computer Engineering With Specialization in Data Science)	60	77
10.	B.Tech. (Computer Engineering)	120	161
11.	B.Tech. (Electrical Engineering)	60	79
12.	B.Tech. (Electronics & Communication Engineering)	60	77
13.	B.Tech. (Electronics & Computer Engineering)	60	79
14.	B.Tech. (Electronics Engineering)	60	77
15.	B.Tech. (Environmental Engineering)	30	20
16.	B.Tech. (Information Technology)	60	79
17.	B.Tech. (Mechanical Engineering Hindi Medium)	30	12
18.	B.Tech. (Mechanical Engineering)	120	155
19.	B.Tech. (Robotics and Artificial Intelligence)	60	33
20.	BA (Bachelor of Social Work)	45	25
21.	BA (Journalism & Mass Communication)	40	50
22.	BBA (BBA )	60	68
23.	BCA (BCA)	60	68
24.	M.SC. (Animation Multimedia)	20	13
25.	M.SC. (Biotechnology)	20	23
26.	M.SC. (Botany)	20	22
27.	M.SC. (Chemistry)	20	68
28.	M.SC. (Environmental Sciences)	20	37
29.	M.SC. (Mathematics)	60	64

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30.	M.SC. (Microbiology)	20	22
31.	M.SC. (Physics)	60	66
32.	M.SC. (Zoology)	20	23
33.	M.Tech. (Computer Science & Engineering)	18	17
34.	M.Tech. (Electronics & Communications Engineering)	18	4
35.	M.Tech. (Energy & Environmental Engineering)	18	18
36.	M.Tech. (Mechanical Engineering Manufacturing and Automation Technology)	18	15
37.	M.Tech. (Power Electronics & Drives)	18	4
38.	M.Tech. (VLSI DESIGN)	18	4
39.	MA (English)	35	22
40.	MA (Journalism & Mass Communication)	30	24
41.	MBA (MBA Executive)	60	20
42.	MBA I	60	69
43.	MBA II	60	70
44.	MCA (MCA (2 year))	60	68
	Grand Total		2199

**(S-Sanction, A-Admitted)**



## **AFFILIATING COLLEGE**



**AFFILIATING COLLEGE  
LIST OF COLLEGES OF PALWAL AND FARIDABAD  
AFFILIATING TO THE UNIVERSITY  
(YEAR 2021-22)**

1. Aravali College of Engineering & Management, Jasana-Tigaon Road, Jasana, Faridabad.
2. Advanced Institute of Technology & Management, 70 KM, Delhi Mathura Road, Vill. Aurangabad, Teh. Hodal, Distt. Palwa.
3. B.S. Anangpuria Institute of Technology & Management, Vill. Alampur, BallabgarhSohna Road, Faridabad
4. Delhi College of Technology & Management, 77 K.M. Stone, NH-2, Gudhrana, Palwal.
5. Echelon Institute of Technology, Village-Kabulpur, Kheri Manjhawali Road, Neharpaar, Faridabad
6. National Power Training Institute, Faridabad
7. NGF College of Engineering & Technology, 71 K.M. Stone, Dehi Mathura Highway, NH-2, Palwal
8. Rawal Institute of Engineering & Technology, Sohna Road, Near Vill. Zakopur, Ballabgarh, Faridabad.
9. Satyug Darshan Institute of Engineering & Technology, Bhupani-Lalpur Road, Bhupani, Faridabad.
10. Shri Ram College of Engineering & Management, 70 K.M. Stone, Delhi Mathura Road, NH-2, Palwal.
11. \*Satya College of Engineering & Technology, 72 K.M. Stone, Delhi Mathura Road, NH-2, Distt. Palwal.
12. \*Delhi Institute of Technology, Management & Research, Vill. Firojpur Kalan, Sohna Road, Faridabad.
13. \*Rattan Institute of Technology & Management, 79 K.M. Stone, NH-2, Mundkati Chock Saveli, Palwal.

\*The matter of affiliation is subjudice.



**1. NAME OF THE COLLEGE: ARAVALI COLLEGE OF ENGINEERING & MANAGEMENT, PALWAL**

**NAME OF THE PRINCIPAL: DR. SURESH KUMAR JINDAL**

**UG Courses:**

B.Tech	Electronics & Communication Engineering	30
B.Tech	Computer Science & Engineering	150
B.Tech	Mechanical Engineering	30
B.Tech	Civil Engineering	30
B.Tech	Computer Science & Engineering (Artificial Intelligence & Machine Learning)	60
BBA	BBA	60
BCA	BCA	60
BBA	Specialization in Financial Services & Banking	60
BCA	Specialization in Data Science	60

**PG Courses:**

MBA	MBA	120
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**2. NAME OF THE COLLEGE: ADVANCED INSTITUTE OF TECHNOLOGY & MANAGEMENT, PALWAL**

**NAME OF THE PRINCIPAL: DR. R.R. PANDEY**

**UG Course:**

B.Tech	Electronics & Communication Engineering	30
B.Tech	Computer Science and Engineering	120
B.Tech	Mechanical Engineering	60
B.Tech	Civil Engineering	30
B.Tech	Information Technology	30
BBA	Specialization in Digital Marketing	60
BBA	BBA	60
BCA	BCA	60
BCA	Specialization in Data Science	60

**PG Courses:**

M.Tech	Computer Science and Engineering	18
M.Tech	Mechanical Engineering	18
M.Tech	Electronics and Communications Engineering	09
MBA	MBA	60
MCA	MCA	60

**3. NAME OF THE COLLEGE: B.S. ANANGPURIA INSTITUTE OF TECHNOLOGY & MANAGEMENT, FARIDABAD**

**NAME OF THE PRINCIPAL: DR. BHUPESH SINGH**

**UG Courses:**

B.Tech	Electronics & Communication Engineering	30
B.Tech	Computer Science & Engineering	60



B.Tech	Mechanical Engineering	30
B.Tech	Information Technology	30
BBA	BBA	30
BBA	Specialization in Financial Services & Banking	30
BCA	Specialization in Data Science	30

**PG Courses:**

MBA	MBA	30
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**4. NAME OF THE COLLEGE: DELHI INSTITUTE OF TECHNOLOGY, MANAGEMENT & RESEARCH, FARIDABAD**

**NAME OF THE PRINCIPAL: DR. RAJEEV**

**UG Courses:**

B.Tech	Electronics and Communications Engineering	30
B.Tech	Computer Science and Engineering	60
B.Tech	Computer Science and Engineering (Artificial Intelligence and Machine Learning)	30
B.Tech	Mechanical Engineering	60
B.Tech	Civil Engineering	30
BBA	BBA	60
BBA	Specialization in Digital Marketing	60
BCA	BCA	60

**PG Courses:**

M.Tech	Computer Science & Engineering	12
M.Tech	Mechanical Engineering Design	12
MBA	MBA	60

**5. NAME OF THE COLLEGE: ECHELON INSTITUTE OF TECHNOLOGY, FARIDABAD**

**NAME OF THE PRINCIPAL: DR. SUDARSHAN GOSWAMI**

**UG Courses:**

B.Tech	Electronics & Communication Engineering	60
B.Tech	Computer Science & Engineering	150
B.Tech	Mechanical Engineering	90
B.Tech	Civil Engineering	60
BBA	BBA	120
BCA	BCA	120
BBA	Specialization in Digital Marketing	60
BCA	Specialization in Data Science	60

**PG Courses:**

M.Tech	Computer Science & Engineering	12
M.Tech	Mechanical Engineering	12



**6. NAME OF THE COLLEGE: NATIONAL POWER TRAINING INSTITUTE, FARIDABAD**

**NAME OF THE DIRECTOR: DR. MANJU MAM**

**PG Courses:**

MBA	MBA	120
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**7. NAME OF THE COLLEGE: NGF COLLEGE OF ENGINEERING & TECHNOLOGY, PALWAL**

**NAME OF THE PRINCIPAL/DIRECTOR: DR. SHARAT KAUSHIK**

**UG Courses:**

B.Tech	Electronics & Communication Engineering	60
B.Tech	Computer Science and Engineering	90
B.Tech	Mechanical Engineering	90
B.Tech	Civil Engineering	30
B.Tech	Electrical Engineering	30
B.Tech	Fashion and Apparel Engineering	30
BBA	BBA	60
BBA	Specialization in Digital Marketing	60
BCA	Specialization in Data Science	60

**PG Courses:**

M.Tech	Computer Science & Engineering	18
M.Tech	Mechanical Engineering	18
M.Tech	Electronics and Communication Engineering	18
MBA	MBA	60

**8. NAME OF THE COLLEGE: RAWAL INSTITUTE OF ENGINEERING & TECHNOLOGY, FARIDABAD**

**NAME OF THE PRINCIPAL: DR. HAMBIR SINGH**

**UG Courses:**

B.Tech	Electronics & Communication Engineering	30
B.Tech	Computer Science and Engineering	120
B.Tech	Mechanical Engineering	60
B.Tech	Civil Engineering	30





**9. NAME OF THE COLLEGE: SATYUG DARSHAN INSTITUTE OF ENGINEERING & TECHNOLOGY, FARIDABAD**

**NAME OF THE PRINCIPAL: DR. PAWAN BHADANA**

**UG Courses**

B.Tech	Computer Science and Engineering	120
B.Tech	Mechanical Engineering	30
BCA	Specialization in Data Science	30
BBA	BBA	60
BBA	Specialization in Digital Marketing	30
BBA	Specialization in Financial Services & Banking	120

**10. NAME OF THE COLLEGE: SHRI RAM COLLEGE OF & ENGINEERING. & MANAGEMENT, PALWAL**

**NAME OF THE DIRECTOR: PROF. (DR.) S.K. GUPTA**

**UG Courses**

B.Tech	Electronics & Communication Engineering	30
B.Tech	Computer Science and Engineering	60
B.Tech	Mechanical Engineering	60
B.Tech	Civil Engineering	30
BBA	BBA	60
BCA	BCA	60

**PG Courses**

M.Tech	Computer Science and Engineering	24
M.Tech	Mechanical Engineering	24
M.Tech	Electronics & Communication Engineering	24
M.Tech	Computer Science & Engineering	24
M.Tech	Transportation Engineering and Management	24
MBA	MBA	60



## PT. DEEN DAYAL UPADHYAY CENTRAL LIBRARY





## PT. DEEN DAYAL UPADHYAY CENTRAL LIBRARY (2019-20)

### INTRODUCTION

The Central Library of the University has been named after the great Indian thinker and leader Pt. Deen dayal Upadhyay. The Library is situated at ground floor with air-conditioned facility and well equipped with modern technology like e-library Portal, Bar Code Technology, Remote Access facility, Federated Search, Artificial Intelligence based searching, Mobile App etc. It is fully automated with Web Based Library Management System 'LSEase' from LIBSYS Ltd. Web OPAC (Online Public Access Catalogue) facility is available to know the availability of books in the library. Library is having total collection of more than 85000 books, 35 magazines, 16 daily newspapers and more than 120 print research journals. More than 3400 e-journals are being subscribed from the reputed publishers e.g. Elsevier's Science Direct, Taylor & Francis, IEEE, Springer Link and Nature to promote the research activities in the University. More than 7000 titles of e-books from McGraw-Hill, Pearson Education, Tritech, Elsevier and EBSCO are accessible to the users. The Library is also the member of DELNET and EShodh Sindhu consortia.

**Nominated Member, Library Committee:** Prof. Ashutosh Dixit

### STAFF PROFILE

Sr. No.	Name	Designation	Qualification	Total Experience (Years)
1.	Dr. P. N. Bajpai	Dy. Librarian	M. Sc.; MLIS, M. Phil, Ph.D.	25
2.	Ms. Hema Singh	Asstt. Lib. Professional	M. Sc., ADIS, PGDCA	14
3.	Mrs. Sadhna Bajpai	Library Counter Clerk	B. Sc., M. A., MLIS, M. Phil	19
4.	Mr. Saurabh Dixit	Library Counter Clerk	B. Sc., MLIS	06
5.	Ms. Pooja	Library Atendant Cum Restorer	B. A.; Dip in Lib. & Inf. Sc.	03

### LIBRARY COLLECTION

Books in Stock	Newly Purchased Books	Book Bank Books	No. of Print Journals	No. of Magazines	No. of Newspapers
85461	1600	19341	120	35	16

### SECTIONS OF THE LIBRARY

The Library is having following sections:

1. Acquisition & Technical Section
2. Circulation Section
3. General Book Section (Stack Area)



4. Book Bank Section
5. Periodical Section
6. Reference Section
7. Internet / E-Resource Section
8. Separate Reading Room
9. Section for Physically disabled persons

**SERVICES/FACILITIES PROVIDED BY THE LIBRARY**

1. Circulation (Issue/Return) Service
2. Reference Service
3. Internet & Access to e-resources
4. Online Public Access Catalogue (OPAC)
5. Reading Facility
6. Book Bank facility
7. Current Content Service.
8. Newspaper clipping service.

**SHORT TERM COURSE/CONFERENCE/ WORKSHOP ATTENDED BY DR. P. N. BAJPAI, DEPUTY LIBRARIAN:**

Following short term courses/ seminars/ workshops were attended by Dr. P. N. Bajpai, Dy. Librarian

1. Attended AICTE sponsored one-week FTP on Research Methodology for Librarians, Faculty Members and Research Scholars organized by DCRUST, Murthal from 05.07.2021 to 10.07.2021.
2. Participated in National Webinar on "Understanding the Research Writing & Publishing" held on 30.06.2022 organized by Sushant University, Gurugram.

**EXPERT LECTURE/ INVITED TALK DELIVERED BY DR. P. N. BAJPAI, DY. LIBRARIAN.:**

1. Delivered an Expert talk on Open Access e-Resources in the National Webinar organized by GGSDS College, Palwal on 04.05.2022.
2. Delivered an Expert talk on Accessing e-Library & Resources in the PDP organized by JC Bose Univ. of Science & Technology, YMCA, and Faridabad from 28.07.2021 to 30.07.2021.

**E-RESOURCES**

Presently library is having access of following e-resources through

**E-shodhsindhu Consortium**

Springer Link

<http://link.springer.com>

Taylor & Francis

<http://www.tandfonline.com>

Economic & Political Weekly

<http://epw.in/>

World e-book Library

<http://community.worldlibrary.in>

South Asia Archives (SAA)

<http://www.southasiaarchive.com>

JCCC

<http://jgateplus.com/>

**E-resources subscribed by the Library**

Elsevier's Science Direct (Engg&Comp.Sc. Collection)  
IEEE (ASPP and POP All)

<http://www.sciencedirect.com>  
<http://ieeexplore.com/>

**GATEWAY TO E-RESOURCES (DISCOVERY SERVICE)**

JGate Plus

<http://jgateplus.com>

**E-LIBRARY PORTAL**

The University Library got prepared its e-library portal to provide remote access of e-Resources to its students and faculty members. The e-Library Portal provides a single-window federated search facility for over 6 Lacs e- resources including all subscribed as well as open access contents. It is accessible 24\*7 from anywhere. The e-Library Mobile App is also available for Android as well as iOS users. Unique features like Artificial Intelligence based chatbot called ILA and Socio-Lib concept that leads to serendipitous knowledge discovery from the portal.

In addition to above, Library is also providing gateway to access e-Resources through the J Gate Discovery Tool being provided by INFLIBNET.

**EVENTS/ACTIVITIES/ACHIEVEMENTS DURING THE YEAR**

<b>Date</b>	<b>Name of Activity</b>	<b>Number of Participants</b>
28 <sup>th</sup> February-5 <sup>th</sup> March, 2022	AICTE sponsored one-week online STTP on "Research Excellence and Academic development: Modern Library Practices in Present Scenario"	32
12 <sup>th</sup> May, 2022	One Day workshop on LaTeX	20



# **EXAMINATION BRANCH**



## EXAMINATION BRANCH

### 1. INTRODUCTION

The Examination Branch is a well established, separate building, modern equipments and adequate experienced staff, conducting examinations and declaration of results. The branch mainly deals with the appointment of paper setters, Examiners, Moderators, senior supervisors, preparation and publication of schedule of examinations, conduct of examinations, to get performance of the students properly assessed through examinations and timely declaration of results and awarding degrees, diplomas and certificates. The entry into examination branch is restricted through RFID. The functioning of the entire examination branch including the spot valuation centre is constantly monitored through state-of-the-art equipment to ensure confidentiality and security of all staff involved in the functioning of the branch. Data storage and backup is access protected through encryption. Certificates / Documents issued by the branch have many security features with constant up gradation of technology in various aspects.

#### Detail of the Employees in Examination Branch

Name	Designation	Duty, Responsibilities & Work Assigned
Dr. Hari Om	Controller of Examinations	Overall supervision of Examination related activities
Sh. Sachin Gupta	Assistant Registrar - Exams	Co ordination of Examination matter
Sh. Jogender Singh Gaud	Superintendent - Exams	Deals with conduct and accounts section of the examination branch
Smt. Babita Anand	Account Executive (Contractual)	Taking care of financial tasks of the branch
Sh. Rajiv Sharma	PA to COE	--
Smt. Anuradha	Assistant	Conduct section related tasks
Sh. S.P Kesri	Assistant	Conduct of Theory/ Practical exams & UMC Cases
Smt. Jyoti Gaur	Assistant	Result declaration
Sh. Mohit Prarashar	Assistant	Ph. D. related works/Secrecy work
Sh. Raj Kumar	Assistant	Conduct section related tasks
Sh. Jaswant	Assistant	Revaluation
Sh. Parveen Kumar	Clerk	Degree /DMC issuance
Sh. Chander Shekhar	Clerk	NAD Digilocker portal
Sh. Puneet	Clerk	Ph. D. related works, Secrecy work
Smt. Pragya Rashmi	Clerk	Conduct of Theory/ Practical exams & UMC Cases
Sh. Mahesh Kumar	Clerk	Transcript/ Provisional/ Student verification issues
Sh. Naresh Pahadia	Peon	--
Sh. Jai Kishan	Peon	--
Sh. Mohit Kumar	Peon	--



**THE DETAILS OF STUDENTS WHO APPEARED AND PASSED IN VARIOUS  
EXAMINATIONS HELD DURING 2021-2022**

Dec- 21										
Course	Program	Year	Sem	Appeared			Passed			Pass %
				Boys	Girls	Total	Boys	Girls	Total	
<b>B.Tech</b>	Civil Engg. (002)	2021	1 <sup>st</sup>	60	10	70	17	14	31	44.29
	Computer Engg. (003)			119	28	147	95	14	109	74.15
	Electrical Engg. (007)			53	18	71	12	6	18	25.35
	Electronics & Communication Engg. (008)			45	25	70	25	19	44	62.86
	Information Technology (011)			63	11	74	48	10	58	78.38
	Mechanical Engg. (013)			122	19	141	70	14	84	59.57
	Electronics & Computer Engg. (015)			55	18	73	39	11	50	68.49
	Computer Engineering with Specialization in Data Science (016)			54	17	71	35	14	49	69.01
	Electronics Engg. (017)			48	22	70	23	15	38	54.29
	B. Tech. Environmental Engineering-019			12	8	20	3	5	8	40
	B. Tech Robotics and Artificial Intelligence-020			24	9	33	15	6	21	63.64
	B. Tech Computer Engineering Hindi Medium-050			17	7	24	9	3	12	50
	B. Sc. Life Science-325			11	47	58	4	23	27	46.55
B. Com. Bachelor of Commerce (Hons.)-352	26	40	66	11	30	41	62.12			
BA Bachelor of Social Work-353	12	13	25	6	10	16	64.00			
<b>BBA</b>	BBA	2021	1 <sup>st</sup>	38	30	68	27	22	49	72.06
<b>BCA</b>	BCA	2021	1 <sup>st</sup>	35	35	70	28	24	52	74.29
<b>B.SC (P)</b>	B.SC Physics (321)	2021	1 <sup>st</sup>	28	35	63	13	16	29	46.03
<b>B.SC (CH)</b>	B.SC Chemistry (322)			13	53	66	9	38	47	71.21
<b>B.SC (M)</b>	B.SC Mathematics (323)			29	44	73	9	31	40	54.79





<b>B.SC (AM)</b>	B.SC Animation (324)			26	19	45	20	13	33	73.33		
<b>BA (JMC)</b>	BA Journalism & Mass Communication (351)			22	28	50	10	24	34	68.00		
<b>M.Tech</b>	Computer Science & Engg. (504)	2021	1 <sup>st</sup>	11	6	17	7	5	12	70.59		
	Electronics & Communications Engg. (505)			2	1	3	2	1	3	100		
	Energy & Environmental Engg. (520)			18	0	18	16	0	16	88.89		
	Power Electronics & Drives (518)			4	0	4	4	0	4	100		
	VLSI Design (511)			4	0	4	2	0	2	50		
	Mechanical Engineering Manufacturing and Automation Technology (524)			12	3	15	9	3	12	80		
<b>MA (J)</b>	MA Journalism & Mass Communication (771)	2021	1 <sup>st</sup>	6	18	24	4	16	20	83.33		
<b>MA (Eng)</b>	MA English (772)	2021	1 <sup>st</sup>	3	19	22	2	13	15	68.18		
<b>MBA</b>	MBA (701)	2021	1 <sup>st</sup>	38	31	69	33	28	61	88.41		
	MBA Specialization (703)			39	31	70	33	30	63	90		
	MBA Executive (704)			16	4	20	12	3	15	75		
<b>MCA</b>	MCA (602)	2021	1 <sup>st</sup>	37	33	70	31	29	60	85.71		
<b>MSC (CH)</b>	M.Sc Chemistry (751)	2021	1 <sup>st</sup>	17	51	68	9	45	54	79.41		
<b>MSC (P)</b>	M.Sc Physics (752)			24	42	66	18	38	56	84.85		
<b>MSC (M)</b>	M.Sc Mathematics (753)			24	46	70	15	31	46	65.71		
<b>MSC (EVS)</b>	M.Sc Environmental Science (754)			8	29	37	4	20	24	64.86		
<b>MSC (BT)</b>	M.Sc Biotechnology (755)			3	20	23	2	15	17	73.91		
<b>MSC (Botany)</b>	M.Sc Botany (756)			0	22	22	0	13	13	59.09		
<b>MSC (Zology)</b>	M.Sc Zology (757)			1	22	23	1	10	11	47.83		
<b>MSC (BIO)</b>	M.Sc Microbiology (758)			5	17	22	3	8	11	50		
<b>M. Sc. (AM)</b>	M. Sc. Animation Multimedia-759					10	3	13	8	2	10	76.92
<b>B.Tech</b>	Civil Engg. (002)			2021	3 <sup>rd</sup>	59	17	76	32	11	43	56.58
	Computer Engg. (003)	128	27			155	113	22	135	87.10		
	Electrical Engg. (007)	52	19			71	25	8	33	46.48		
	Electronics &	56	20			76	17	5	22	28.95		



	Communication Engg. (008)									
	Information Technology (011)			62	14	76	56	10	66	86.84
	Mechanical Engg. (013)			129	20	149	89	12	101	67.79
	Electronics & Computer Engg. (015)			56	20	76	36	12	48	63.16
	B. Tech. Computer Engineering with Specialization in Data Science-016			55	21	76	48	18	66	86.84
	B. Tech. Electronics Engineering-017			57	13	70	37	10	47	67.14
<b>BBA</b>	BBA	2021	3 <sup>rd</sup>	38	24	62	37	21	58	93.55
<b>BCA</b>	BCA	2021	3 <sup>rd</sup>	39	27	66	28	18	46	69.70
<b>B.SC (P)</b>	B.SC Physics (321)			46	19	65	33	10	43	66.15
<b>B.SC (CH)</b>	B.SC Chemistry (322)			16	47	63	12	31	43	68.25
<b>B.SC (M)</b>	B.SC Mathematics (323)	2021	3 <sup>rd</sup>	24	40	64	17	33	50	78.12
<b>B.SC (AM)</b>	B.SC Animation (324)			29	10	39	14	6	20	51.28
<b>BA (JMC)</b>	BA Journalism & Mass Communication (351)	2021	3 <sup>rd</sup>	20	26	46	13	17	30	65.22
	Computer Engg. (502)			9	8	17	7	7	14	82.35
	M. Tech. Computer Science & Engineering-504			9	11	20	4	11	15	75
	Electronics & Communications Engg. (505)			5	2	07	2	1	3	42.86
	Power Electronics & Drives (518)			6	0	6	6	0	6	100
	VLSI Design (511)			3	4	7	2	2	4	57.14
<b>M.Tech</b>	M. Tech. Energy & Environmental Engineering-520	2021	3 <sup>rd</sup>	8	2	10	8	2	10	100
	M. Tech Mechanical Engineering Manufacturing and Automation Technology-524			18	1	19	18	1	19	100
<b>MA (J)</b>	MA Journalism & Mass	2021	3 <sup>rd</sup>	7	4	11	7	2	9	81.82



	Communication (771)									
<b>MA (Eng)</b>	MA English (772)	2021	3 <sup>rd</sup>	2	13	15	1	12	13	86.67
<b>MBA</b>	MBA (701)	2021	3 <sup>rd</sup>	22	46	68	22	43	65	95.59
	MBA Specialization (703)			33	34	67	27	31	58	86.57
	MBA Executive (704)			19	9	28	19	9	28	100
<b>MCA</b>	MCA (602)	2021	3 <sup>rd</sup>	35	28	63	32	28	60	95.24
<b>MSC (CH)</b>	M.Sc Chemistry (751)	2021	3 <sup>rd</sup>	11	53	64	11	49	60	93.75
<b>MSC (P)</b>	M.Sc Physics (752)			16	47	63	15	46	61	96.83
<b>MSC (M)</b>	M.Sc Mathematics (753)			12	49	61	8	35	43	70.49
<b>MSC (EVS)</b>	M.Sc Environmental Science (754)			8	29	37	8	26	34	91.89
<b>M. Sc. (BT)</b>	M. Sc. Biotechnology-755			1	21	22	1	20	21	95.45
<b>M. Sc. (Botany)</b>	M. Sc. Botany-756			0	22	22	0	20	20	90.91
<b>M. Sc. (Zoology)</b>	M. Sc. Zoology-757			2	20	22	2	20	22	100
<b>M. Sc. (Microbiology)</b>	M. Sc. Microbiology-758			3	19	22	3	19	22	100
<b>B.Tech</b>	Civil Engg. (002)			2021	5 <sup>th</sup>	61	15	76	41	12
	Computer Engg. (003)	122	37			159	100	28	128	80.50
	Electrical Engg. (007)	61	14			75	61	13	74	98.67
	Electronics & Communication Engg. (008)	52	21			73	49	19	68	93.15
	Electronics, Instrumentation & Control Engg. (009)	56	17			73	28	13	41	56.16
	Information Technology (011)	60	13			73	56	11	67	91.78
	Mechanical Engg. (013)	113	24			137	103	21	124	90.51
	B. Tech. Electronics & Computer Engineering-015			56	16	72	49	15	64	88.89
<b>BBA</b>	BBA	2021	5 <sup>th</sup>	32	31	63	29	29	58	92.06
<b>BCA</b>	BCA	2021	5 <sup>th</sup>	38	29	67	33	22	55	82.09
<b>B.SC (P)</b>	B.SC Physics (321)	2021	5 <sup>th</sup>	36	25	61	32	23	55	90.16
<b>B.SC (CH)</b>	B.SC Chemistry (322)			14	51	65	10	36	46	70.77
<b>B.SC (M)</b>	B.SC Mathematics (323)			30	34	64	22	30	52	81.25



<b>B.SC (AM)</b>	B.SC Animation (324)			28	12	40	16	9	25	62.50
<b>BA (JMC)</b>	BA Journalism & Mass Communication-351			14	28	42	11	15	26	61.90
<b>MCA</b>	MCA (601)	2021	5 <sup>th</sup>	41	31	72	37	27	64	88.89
	B. Tech. Civil Engineering-002	2021	7 <sup>th</sup>	59	8	67	56	8	64	95.52
	Computer Engg. (003)			122	25	147	118	25	143	97.28
	Electrical Engg. (007)			56	9	65	49	9	58	89.23
	Electronics & Communication Engg. (008)			51	18	69	49	16	65	94.20
<b>B.Tech</b>	Electronics, Instrumentation & Control Engg. (009)			40	16	56	40	16	56	100
	Information Technology (011)			58	15	73	49	15	64	87.67
	Mechanical Engg. (013)			118	20	138	107	16	123	89.13

May- 22

Course	Program	Year	Sem	Appeared			Passed			Pass %
				Boys	Girls	Total	Boys	Girls	Total	
<b>B. Tech</b>	B. Tech. Civil Engineering- 002	2022	2 <sup>nd</sup>	52	7	59	17	6	23	38.98
	B. Tech. Electronics & Communication Engineering- 008			38	23	61	31	21	52	85.25
	B. Tech. Information Technology- 011			56	10	66	49	10	59	89.39
	B. Tech. Mechanical Engineering- 013			107	18	125	67	13	80	64.00
	B. Tech. Electronics & Computer Engineering- 015			53	15	68	32	13	45	66.18
	B. Tech. Environmental Engineering- 019			8	5	13	3	4	7	53.85



	B. Tech Robotics and Artificial Intelligence- 020			21	7	28	15	5	20	71.43
	BBA - 301	2022	2 <sup>nd</sup>	36	30	66	28	25	53	80.30
	BCA - 311	2022	2 <sup>nd</sup>	34	33	67	27	29	56	83.58
	B. Sc. Animation And Multimedia-324	2022	2 <sup>nd</sup>	26	19	45	12	10	22	48.88
	B. Com. Bachelor of Commerce (Hons.)- 352	2022	2 <sup>nd</sup>	26	40	66	19	35	54	81.82
	M. Tech. Computer Science & Engineering- 504	2022	2 <sup>nd</sup>	9	6	15	5	4	9	60.00
	M. Tech. Energy & Environmental Engineering- 520			18	0	18	12	0	12	66.67
	M. Tech Mechanical Engineering Manufacturing and Automation Technology- 524			11	3	14	2	3	5	35.71
	MBA- 701	2022	2 <sup>nd</sup>	38	31	69	31	29	60	86.96
	MBA- 703			39	31	70	37	29	66	94.29
	MBA Executive- 704			16	4	20	12	4	16	80.00
	M. Sc. Physics- 752	2022	2 <sup>nd</sup>	24	42	66	15	29	44	66.67
	M. Sc. Mathematics- 753			23	41	64	14	24	38	59.38
	M. Sc. Environmental Science- 754			6	29	35	5	23	28	80.00
	M. Sc. Zoology- 757	2022	2 <sup>nd</sup>	1	22	23	1	11	12	52.17



	M. Sc. Microbiology- 758			5	17	22	1	12	13	59.09
	M. Sc. Animation Multimedia- 759			10	3	13	8	1	9	69.23
	MA English- 772	2022	2 <sup>nd</sup>	3	17	20	1	13	14	70.00
<b>B. Tech</b>	B. Tech. Civil Engineering-002			57	17	74	31	15	46	62.16
	B. Tech. Electrical Engineering-007			52	18	70	24	11	35	50
	B. Tech. Computer Engineering with Specialization in Data Science-016			53	20	73	38	18	56	76.71
<b>M.Tech</b>	Computer Engg. (502)	2022	4 <sup>th</sup>	9	8	17	7	7	14	82.35
	M. Tech. Computer Science & Engineering- 504			7	11	18	5	11	16	88.89
	Electronics & Communications Engg. (505)			5	2	7	4	2	6	85.71
	Power Electronics & Drives (518)			6	0	6	5	0	5	83.33
	VLSI Design (511)			3	4	7	3	4	7	100
	M. Tech. Energy & Environmental Engineering-520			8	2	10	8	2	10	100
	M. Tech Mechanical Engineering Manufacturing and Automation Technology- 524			18	1	19	17	1	18	94.74
<b>MCA</b>	MCA 2 Year-602	2022	4 <sup>th</sup>	35	28	63	35	28	63	100
<b>MBA</b>	MBA (701)	2022	4 <sup>th</sup>	22	46	68	21	43	64	94.12
	MBA Specialization (703)			33	34	67	26	34	60	89.55
	MBA Executive (704)			19	9	28	19	9	28	100
<b>MSC (CH)</b>	M.Sc Chemistry (751)	2022	4 <sup>th</sup>	11	53	64	11	47	58	90.63
<b>MSC (P)</b>	M.Sc Physics (752)			16	47	63	13	35	48	76.19



<b>MSC (M)</b>	M.Sc Mathematics (753)			12	49	61	5	39	44	72.13
<b>MSC (EVS)</b>	M.Sc Environmental Science (754)			8	29	37	7	28	35	94.59
<b>M. Sc. (BT)</b>	M. Sc. Biotechnology-755			1	21	22	1	21	22	100
<b>M. Sc. (Botany)</b>	M. Sc. Botany-756			0	22	22	0	21	21	95.45
<b>M. Sc. (Zoology)</b>	M. Sc. Zoology-757			2	20	22	2	20	22	100
<b>M. Sc. (Microbiology)</b>	M. Sc. Microbiology-758			3	19	22	3	19	22	100
<b>MA (JMC)</b>	MA Journalism & Mass Communication-771	2022	4 <sup>th</sup>	7	4	11	7	4	11	100
<b>MA (English)</b>	MA English-772			2	13	15	2	13	15	100
<b>BBA</b>	BBA (301)	2022	4 <sup>th</sup>	38	24	62	32	23	55	88.71
<b>BCA</b>	BCA (311)	2022	4 <sup>th</sup>	39	27	66	26	23	49	74.24
<b>B.SC (M)</b>	B.SC Mathematics (323)	2022	4 <sup>th</sup>	24	40	64	15	36	51	79.69
<b>B.SC (AM)</b>	B.SC Animation (324)			29	10	39	22	8	30	76.92
<b>BA (JMC)</b>	BA Journalism & Mass Communication (351)	2022	4 <sup>th</sup>	20	26	46	14	21	35	76.09
<b>B.Tech</b>	Civil Engg. (002)	2022	6 <sup>th</sup>	61	15	76	38	12	50	65.79
	Electrical Engg. (007)			61	13	74	38	8	46	62.16
<b>BBA</b>	BBA	2022	6 <sup>th</sup>	32	31	63	30	29	59	93.65
<b>BCA</b>	BCA	2022	6 <sup>th</sup>	38	29	67	36	25	61	91.04
<b>B.SC (P)</b>	B.SC Physics (321)	2022	6 <sup>th</sup>	36	25	61	27	23	50	81.97
<b>B.SC (CH)</b>	B.SC Chemistry (322)			14	51	65	14	51	65	100
<b>B.SC (M)</b>	B.SC Mathematics (323)			30	34	64	19	32	51	79.69
<b>B.SC (AM)</b>	B.SC Animation (324)			26	12	38	26	12	38	100
<b>BA (JMC)</b>	BA Journalism & Mass Communication-351	2022	6 <sup>th</sup>	13	28	41	8	28	36	87.80
<b>MCA</b>	MCA (601)	2022	6 <sup>th</sup>	41	31	72	41	31	72	100
<b>B.Tech</b>	B. Tech. Civil Engineering (002)	2022	8 <sup>th</sup>	59	8	67	59	8	67	100
	Computer Engg. (003)			119	25	144	119	25	144	100
	Electrical Engg. (007)			56	9	65	56	9	65	100



	B. Tech. Electronics & Communication Engineering (008)			51	18	69	50	18	68	98.55
	Electronics, Instrumentation & Control Engg. (009)			44	19	63	44	19	63	100
	Information Technology (011)			57	15	72	57	15	72	100
	Mechanical Engg. (013)			118	20	138	118	20	138	100





## **SCHOLARSHIPS BRANCH**



The Scholarship Branch under the Dean Student Welfare Office provides merit-based scholarships and awards to the students of the University Teaching Departments. (UTDs). Scholarship Branch also provides financial assistance to UTDs students in various other ways such as-

- To provide financial assistance in the form of soft loans to EWS/needy students in association with MOB (Alumni Association).
- To arrange for providing scholarship through some other external scholarship providing agencies, NGOs etc. to those students who are studying well and are unable to pay their fees due to financial constraints.
- Arranging for award of scholarship to UTDs students through other external agencies and also on National Scholarship Portal (NSP) based on the verification of their scholarship forms.

**Dean Student Welfare (Scholarship Branch)**

<b>Designation</b>	<b>Name of Employee</b>
Dean Student Welfare	Prof. Lakhwinder Singh
Deputy Dean Student Facility	Dr. Harish Kumar
Assistant	Ms. Lalita Arora
Assistant	Mr. Hem Singh
D.E.O.	Mr. Devendra Prasad
Peon	Mr. Pawan Kumar

<b>Sr. No.</b>	<b>Name of Scholarship</b>	<b>No.of students allowed</b>	<b>Amount per student (in Rs.)</b>	<b>No. of students eligible during 2021-22</b>	<b>Amount disbursed during 2021-22 (in Rs.)</b>	<b>Eligibility Criteria</b>
	<b>Scholarship received from State Govt. Deptts.</b>					
1	BC Post Matric Scholarship	No limit of number of students	As per Govt. Policy	221	0	BC Students whose parental income not more than 2.5 lacs per annum
2	SC Post Matric Scholarship	No limit of number of students	tuition fee & other charges	379	13997477	SC students whose parental income not more than 2.50 lac per annum
3	<b>University Scholarships</b>					



	(a) Dean Certificates Department wise	90 per semester	Rs.2,500/- + Certificate	181	452500	Toppers of each semester branch wise/course wise/B.Tech./M.Tech./BC A/MCA/BBA/MBA//M.Sc. /B.Sc./B.A etc.
	(b) Merit-Cum-Means (Rs.750/- p.m.)	15% of the sanctioned/ admitted strength of B.Tech./ MCA/MB A course or actual intake whichever is less	750/- per month per student	23	86250	B.Tech., MBA, & MCA students whose parental income 4.50 lacs per annum and passed their last two semester exams and secured atleast 7.750 CGPA
	(c) Financial Assistance to economically weak/needly students ( as a soft loan)	No limit of number of students	Total fee (%age recommended by Chairperosns )	30	544954	Financial assistance as a soft loan is provided to the students of the university of all courses with the reasons, i.e. Death of parent/critical illensss for self/family member/loss of job/earning of a parents etc.
	(d) Governor/Chancellor's Gold Medal	1	Rs.75,000/-+ Medal + Certificate	5	375000	Overall B.Tech. academic topper student
	(e) Chief Minister's Gold Medal	1	Rs.65,000/-+ Medal + Certificate	5	325000	Overall B.Tech. academic topper girl student
	(f) Vice Chancellor's Gold Medal	Faculty wise (1 for UG & 1 for PG)	Rs.11,000/-+ Medal + Certificate	34	374000	Faculty wise (UG+PG) students on the basis of their performance on merit as well as other extra & cocurricular activities
4	<b>Misc. Scholarships</b>					



from outside agencies						
(a) Financial Assistance to economically weak/needly students (as a soft loan) by MOB (The Alumni Association)	No limit of number of students	Total fee (%age recommended by Chairpersons)	68	1721882	Financial assistance as a soft loan is provided to the students of the university of all courses with the reasons, i.e. Death of parent/critical illness for self/family member/loss of job/earning of a parents etc.	
(b) AICTE J&K admitted student (PMSSS Scheme)	No limit of number of students	tuition fee & other charges	28	2190379	As per their norms	
(c) Vishwa Prakash Mission, Fbd.	No limit of number of students	tuition fee & other charges	68	1590000	As per their norms	
(d) RKM Scholarship	No limit of number of students	tuition fee & other charges	14	56700	As per their norms	
(e) Shri Sultan Chand Trust, N. Delhi	No limit of number of students	tuition fee & other charges	1	28395	As per their norms	
(f) Foundation for Excellence	No limit of number of students	40000 per student	35	1400000	As per their norms	
(g) St. Anthony's convent school. Palwal	No limit of number of students	tuition fee & other charges	1	22565	As per their norms	
(h) National Scholarship Portal (NSP)	No limit of number of students	tuition fee & other charges	112	2812000	As per their norms	
<b>Grand Total</b>			<b>1205</b>	<b>25977102</b>		

**NOTE:** Beside the above scholarships, number of students are getting scholarship from AICTE Pragati Scholarship (NSP), AICTE Saksham Scholarship (NSP), AICTE Swanath Scholarship (NSP), CSSS Scholarship (NSP), Merit Cum Means (NSP), Minority Scholarship (NSP), Priminister Scholarship (NSP), PG Indra Gandhi for Girls and SC/ST (NSP), Post Matric Scholarship for Disabilities (NSP), Central Board of Seconday Delhi, Board of School Education Haryana, Bhiwani, POSE Scholarship from HGCST, Panchkula, Siemens, Foundation for Excellence and from their Parent's office etc.directly.



**UNIVERSITY WORKS  
AND  
DEVELOPMENT**



## UNIVERSITY WORKS AND DEVELOPMENT

**Executive Engineer: Mr. Ajay Taneja,**  
**Sub Divisional Engineer: Mr. Anil Kumar Sharma**

### INTRODUCTION

In order to strengthen the academic activities of the University, construction of new buildings for departments, hostels, staff quarters, etc., and development of other infrastructural facilities were taken up during the year under report. The details of which are as follows:

### DETAILS OF STAFF

Sr. No.	Name	Designation	Qualification	Working from (DDMMYYYY)
1.	Ajay Taneja	Superintending Engineer (PHED) presently on deputation in the University.	AMIE in Civil Engg. + Post Diploma in Structural Engg.	03/11/2016
2.	Anil Kumar Sharma	Executive Engineer cum Sub-divisional Engineer	AMIE in Civil Engg. + M. Tech (Const. Tech. & Management.)	23/12/1994
3.	T.R. Chauhan	Junior Engineer (Civil)	Diploma in Civil Engg.	16/07/2014
4.	O.P. Kaushik	Junior Engineer (Electrical)	Diploma in Electrical Engg.	11/07/2014
5.	Yash Sorot	Junior Engineer (Outsourcing Civil)	B.E in Civil Engg.	On Outsourcing Part- II 20.04.2021

### WORK IN PROGRESS

#### a) Capital Works

(01/07/2020 to 31/03/2023)

Sr. No	Name of work with Agreement Name	Amt. of A/A (In Lacs)	Scope of work	Date of completion
1.	Construction of Girls Hostel (G+8) and Class-IV staff quarter (G+3) Residence at J.C. Bose University.	1800.00	Construction of Girls Hostel (G+8) and Class-IV staff quarter (G+3) Residence.	31/10/2023
2	Fire fighting system in J.C. Bose University of Science & Technology, YMCA Faridabad.	112.16	Installation of fire pipe is under progress.	31/10/2023



3	Construction of library, MBA & Mass communication Deptt. Building in J.C. Bose University.	1270.53	Foundation work is under progress.	30/11/2023
4	Water line from Gurgaon canal to main entry tank of J.C. Bose University science & Technology,	73.97	Pipe work is under progress.	31/10/2023
5.	Furnishing work for girls hostel rooms of J.C. Bose University of Science & Technology YMCA Faridabad.	78.50	furniture work is under progress	20/04/2023
6.	Supply, Installation , testing & Commissioning of 2 nos. lifts of girls hostel in J.C. Bose UST.	68.98	Under progress.	15/04/2023
7.	Furnishing work in the canteen mess & Student activity center in the university.	44.72	furniture work is nearly on completion.	30/03/2023
8.	Dismantling & Auction of boys hostel on as is where is basis of the University	48.95/53.25	Allotment under progress	

**b) Renovation/Maintenance Works**

1.	Erection of Aluminum Partition work for setting-up of the offices of Affiliation Branch, CHW Branch and NCC Branch at 4th floor in newly constructed Canteen Mess Building of the University	3.74	Allotment under progress.	
2.	Caretaker Room at VC Camp office of the J.C. Bose University Science and Technology, YMCA	2.45	Allotment under progress.	



	Faridabad			
3.	Furnishing Work of the Dean Academic office of J.C. Bose University of Science and Technology YMCA Faridabad	2.40	Allotment under progress.	
4.	Dismantling of tile terracing, Water Proofing and relaying of tiles of MBA Block, Auditorium Roof Top of J.C. Bose University of Science and Technology YMCA Faridabad.	4.74	Allotment under progress.	
5.	Whitewashing & Painting work at diff. places of J.C. Bose University Science & Technology, YMCA Faridabad	2.45	Allotment under progress.	
6.	Electrical work in Civil Engineering Department of J.C. Bose University of Science & Technology YMCA Faridabad	2.26	Allotment under progress.	

**WORKS COMPLETED (01/07/2020 to 31/03/2023)**

Sr. No	Name of work with Agreement Name	Amt. of A.A (In Lacs)	Scope of work	Date of completion	Expenditure (In Lacs)
1.	Const.of Multi storied officers Residence at YMCA University.	4560.00	Construction of 72 nos. flats in 2 blocks @ 36 nos. flats per block.	31/03/2021	





2.	Construction of Science Block in the YMCA University	1345.00	(G+9) Floor building with workshop at GF & Lecture rooms & labs on other floors.	15/06/2021	
3.	Construction of Lecture Hall (G+3 Floors).	318.53	Finishing, Flooring & Staircase work under progress.	31/10/2020	
4.	Construction of post office&Dismantling, Recovery of the material on as is where basis in the University is.	12.08	Brick work completed up to roof level.	30/11/2020	
5.	Construction of international cell at ground floor & faculty room at 1st floor of J.C. Bose university of Science & Technology.	11.04	Construction of international cell at ground floor & faculty room at 1st floor	31/10/2020	
6.	Providing & fixing classroom benches for science block building in the university.	51.69	Providing & fixing classroom benches for science block building.	31/08/2020	
7.	Installationof Rain water Harvesting bore opposite lecture hall building in J.C. Bose university of science & Technology, YMCA Faridabad.	1.16	Rain water Harvesting bore	21/07/2021	
8.	International office toilet in J.C. Bose university of science & Technology, YMCA Faridabad.	3.81	Construction of International Toilet	21/07/2021	
9.	Construction of shed to be used as industrial and training center of J.C. Bose university of science & Technology,	28.37	Construction of shed to be used as industrial and training center	30/04/2021	
10.	Whitewash in VC office, Guest House Administrative, MBA Blocks, Dispensary, library, computer block & Electrical façade etc. in J.C. Bose university of science & Technology, YMCA Faridabad.	5.03	Whitewash in VC office, Guest House Administrative, MBA Blocks, Dispensary, library, computer block & Electrical façade	31/03/2021	



			etc.		
11.	Furnishing work in newly constructed international cell and faculty room at G.F & F.F. of J.C. Bose university of science & Technology, YMCA Faridabad.	3.40	Furnishing work in newly constructed international cell and faculty room at G.F & F.F.	31/03/2021	
12.	Construction of Prefab hall for M.A English classes and a room for B.sc animation Deptt. At 3rd floor in YMCA University.	23.12	Construction of Prefab hall for M.A English classes and a room for B.sc animation Deptt. At 3rd floor	31/03/2021	
13.	Construction of Gardeners store and steps around J.C.Bose university of science & Technology, YMCA Faridabad.	7.36	Construction of Gardeners store and steps around	25/03/2021	
14.	Installation of CCTV Cameras 2 Megapixel IP HD Cameras in the newly constructed Science block of the university.	44.21	Installation of CCTV Cameras 2 Megapixel IP HD Cameras in the newly constructed Science block	31/03/2021	
15.	Networking in the newly constructed science block of the university.	12.71	Networking in the newly constructed science block	31/03/2021	
16.	Electrical work at different location of YMCA university.	2.40	Electrical work at different location	20/12/2020	
17.	Upgradation of Sub-Station Building and P/F/I&C of 1000 KVA Transformer & other accessories in the University.	103.90	Load has been extended up to 1500KVA & Sub-Station is expected to be commissioned by 15/10/2020	30/09/2021	
18.	Supply, Installation, Testing & Commissioning of 4 Nos. Lifts at Multi-storied Flats in J.C. Bose	116.16	Supply, Installation, Testing & Commissioning of 4 Nos. Lifts at	15/08/2021	



	University		Multi-storied Flats		
19	Supply, Installation, Testing & Commissioning of 2 Nos. Lifts at Academic Block in J.C. Bose University.	56.70	Supply, Installation, Testing & Commissioning of 2 Nos. Lifts at Academic Block	15/08/2022	
20	Providing & fixing classroom benches Science & technology in YMCA University.	51.69	125 Nos. Benches have already been supplied.	15/08/2021	
21	P/F/I/C of Independent feeder for the J.C .Bose university.	101.25	Independent feeder for University	31/10/2021	
22	Construction of canteen mess and student activity center in the university.	471.00	Construction of canteen mess.	31/10/2022	
23	Furnishing work in newly constructed lecture hall building of J.C. Bose University Science & Technology, YMCA, Faridabad.	31.67	Furniture for lecture hall	15/08/2021	
24	CONSTRUCTION OF PUMP ROOM, U.G.WATER TANK, BOUNDARY WALL, STILT & BASEMENT WORK AT J.C.BOSE UST, FARIDABAD	216.72	Boundary wall & other works .	15/10/2021	
25	Furnishing work in Newly constructed science block at J.C Bose university.	68.57	Furniture for Science Block	31/10/2021	
26	Setting up of Studio at J.C. Bose university of Science & Technology,	43.94	Under progress likely to be completed till	31/10/2021	



	YMCA Faridabad.		15.10.2021.		
27	Supply, installation, testing & Commisisiong of Air-conditions of science block in YMCA University.	82.85	A.C. Machine installation & Piping work is under progress.	31/08/2021	
28	Setting up of Studio at J.C. bose university of Science & Technology, YMCA Faridabad.	120.33	Equipement received at site Installation under progress.	31/10/2021	
29	Strengting & windning of entry road of in J.C. Bose university of Science & Technology, YMCA Faridabad.	13.32	Under progress likely to be completed till 15.10.2021.	31/08/2021	
30	Furnishing work in computer lab & VLSI lab in in J.C. Bose university of Science & Technology, YMCA Faridabad.	8.24	Furnishing work in computer lab & VLSI lab & work Under progress likely to be completed till 15.10.2021.	31/10/2021	
31	Construction of waiting lounge in girls hostel and renovation or upgradation of main gate of Hostel in J.C. Bose University	12.04	Construction of waiting lounge in girl's hostel & renovation or upgradation of main gate of boy's hostel.	31/10/2021	
32	Construction of Walking Track all around play ground in the university.	14.60	Walking Track all around play ground	31/10/2021	
33	Constructio of Lecture Capturing system in newly constructed Science Block building at 9 <sup>th</sup> floor of J.C. Bose	18.85	Lecture Capturing system in Science Block.	31/10/2021	



	University.				
34	Supply, Installation, Testing & Commissioning of 50 KLD Sewerage Treatment plant in J.C. Bose University.	29.87	Sewerage Treatment plant	31/10/2022	

**WORKS COMPLETED (01/07/2020 to 31/03/2023)**

**c) Renovation/Maintenance Works**

Sr. No	Name of work with Agreement Name	Amt. of A.A (In Lacs)	Scope of work	Date of completion	Expenditure (In Lacs)
1.	Furnishing work in JMC LAB of the in J.C. Bose university of science & Technology, YMCA Faridabad.	11.55	Furnishing work.	31/07/2020	
2.	Renovation of HAS Staff room, MBA Block, Administrative Block and other location of the university.	24.03	Renovation of HAS Staff room, MBA Block, Administrative Block and other location.	31/07/2020	
3.	Replacement of existing M.S window with the Aluminum window at all places.	8.48	Replacement of existing M.S window with the Aluminum window.	12/08/2020	
4.	Work required to convert hostel rooms in the mess due to demolition of mess in J.C. Bose university of science & Technology, YMCA Faridabad.	1.22	Work required to convert hostel rooms in the mess due to demolition of mess.	13/11/2020	
5.	Whitewashing & painting etc work in COE office in J.C. Bose	3.55	Whitewashing & painting	30/06/2021	



	university.				
6.	Providing & fixing of RCC pole for the demoraction work of additional campus of YMCA University on Badhkhal	4.52	P/F of RCC Pole on additional campus	21/06/2021	
7.	Electrical, Networking & Aluminium cabin work in the proposed computer lab for incubation center at IInd floor of Bank Building in the university.	2.96	Electrical, Networking & Aluminium cabin work in the proposed computer lab for incubation center at IInd floor of Bank Building	23/04/2021	
8.	Whitewash in VC office, Guest House Administrative, MBA Blocks, Dispensary, library, computer block & Electrical façade etc. in J.C. Bose university of science & Technology, YMCA Faridabad.	5.03	Whitewash in VC office, Guest House Administrative, MBA Blocks, Dispensary, library, computer block & Electrical façade etc.	31/03/2021	
9.	Clearance of site of new campus of J.C. Bose university of science & Technology, YMCA Faridabad.	4.89	Clearance of site of new additional campus	25/03/2021	
10.	Additional items for modular clean room in electronics department in the University.	4.98	Additional items for modular clean room in electronics department	25/03/2021	
11.	Whitewash in boys hostel in J.C. Bose University science & TEchnology, YMCA faridabad.	8.95	Whitewash in boys hostel.	31/03/2021	
12.	Renovation or upgradation work required in S.O.M lab at ground fllor mechanical deptt. In the	6.33	Renovation or upgradation work required in S.O.M lab at ground	31/12/2020	



	university.		floor mechanical deptt.		
13.	Renovation of purchase Branch office in J.C. Bose university YMCA Faridabad.	5.54	Renovation of purchase Branch office	08/01/2021	
14.	Renovation of faculty room SR-12 and SR-21 at 1 <sup>st</sup> floor and 2 <sup>nd</sup> floor in J.C. Bose university of science & Technology, YMCA Faridabad.	4.10	Renovation of faculty room SR-12 and SR-21 at 1 <sup>st</sup> floor and 2 <sup>nd</sup> floor	03/01/2021	
15.	Work required in calibration lab in GEW of electrical engineering deptt. In J.C. Bose university of science & Technology, YMCA Faridabad.	5.13	Work required in calibration lab in GEW of electrical engineering deptt.	03/01/2021	
16.	Renovation of toilet of V.C office, Toilet in corridor near MMC & construction of 1no. toilet for differentlyabled & faculties in J.C. Bose university of science & Technology, YMCA Faridabad.	4.27	Renovation of toilet of V.C office, Toilet in corridor near MMC & construction of 1no. toilet for differentlyabled & faculties.	04/10/2020	
17.	Sanitization work in J.C. Bose university of Science & Technology, YMCA Faridabad.	1.40	Sanitization work in the university.	30/10/2020	
18.	Fabrication, fitting, testing and commissioning work of clean room lab in IIInd floor of the university.	3.60	Fabrication, fitting, testing and commissioning work of clean room lab	28/09/2020	
19.	Whitewash & repair of tiles in Mechanical block & dispensary in the university.	2.86	Whitewash & repair of tiles in Mechanical block & dispensary	31/07/2020	



20.	Renovation of clean room lab in the IInd floor of the university.	5.37	Renovation of clean room lab in the IInd floor	31/08/2020	
21.	Providing & Fixing of Street lights in the campus of Multi-storied residence in J.C. Bose University.	4.56	lights in the Multi-storied residence	31/03/2021	
22.	Renovation/Upgradation of computer centre, PCI workshop, communication workshop, control lab, staff cabin in the university.	24.16	Renovation/Upgradation of computer centre, PCI workshop, communication workshop, control lab, staff cabin	31/10/2021	
23.	Replacement of Floor tiles in computer lab in J.C. Bose university of Science & Technology, YMCA Faridabad.	3.42	Replacement of Floor tiles in computer lab	31/08/2022	
24.	Renovation/ Upgradation of microwave & communication workshop lab in J.C. Bose university of Science & Technology, YMCA Faridabad.	11.77	Renovation/ Upgradation of microwave & communication workshop lab	30/11/2022	
25.	Renovation/ Upgradation of Receptions & Entrance Area of newly constructed Science Block.	4.69	Upgradation of Receptions in Science Block.	31/08/2022	





## FINANCIAL SUMMARY





## CONTROLLER OF FINANCE: DR. KOMAL KUMAR BHATIA

Sr. No.	Head of Account	Actuals 2020-21	Actuals 2021-22	Budget Estimates 2022-23
	<b>RECEIPTS</b>			
A.	Opening Balance	2,218.77	- (15.36)	1,345.83
B.	State Govt. Grant	8,304.54	7,100.00	4,500.00
C.	Internal Receipts	1,925.20	2,047.36	2,525.38
D.	Self Financing Schemes	1,040.34	1,595.42	1,904.46
E.	Funding Agencies	341.55	375.62	1,120.00
	<b>Total</b>	<b>13,830.40</b>	<b>11,103.04</b>	<b>11,395.66</b>
	<b>EXPENDITURES</b>			
A.	State Govt. Grant	3,953.39	5,104.54	6,049.23
B.	Self Financing Schemes	1,397.63	1,720.68	1,933.27
C.	Funding Agencies	824.85	363.75	1,129.95
G	Corpus Fund	-	-	-
D.	Construction Works	7,669.89	2,568.24	3,671.56
	<b>Total</b>	<b>13,845.76</b>	<b>9,757.21</b>	<b>12,784.01</b>