SCHEME
(Choice Based Credit Scheme)

For

BACHLOR OF TECHNOLOGY PROGRAMME

In

COMPUTER ENGINEERING

(w.e.f Session 2017-2018)

DEPARTMENT OF COMPUTER ENGINEERING

FACULTY OF ENGINEERING AND TECHNOLOGY

YMCA UNIVERSITY OF SCIENCE AND TECHNOLOGY
FARIDABAD

YMCA UNIVERSITY OF SCIENCE & TECHNOLOGY

VISION

"YMCA University of Science and Technology 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.

DEPARTMENT OF COMPUTER ENGINEERING

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 ever changing 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.

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.

ABOUT THE PROGRAM

The Bachelor of Technology (B. Tech.) program in Computer Engineering has a strong flavor on design and hands-on experience. The program includes a deeper study of a number of engineering subjects to which students are introduced at the core curriculum level, theoretical and programming solutions of real world problems and design of systems relevant to the software organizations. The areas introduced by the department include software engineering, software testing, web crawlers, information retrieval, computer networks and data structures etc. Besides the theoretical and laboratory based curriculum, students complete an advanced programming project in the final year of the program including one full semester in an industry

.

This degree provides a solid foundation in core Computer Engineering disciplines, critical thinking and problem-solving skills. Through the academic program, students also develop excellent written and oral communication skills, learn to work as a team and project management.

DEPARTMENT OF COMPUTER ENGINEERING

B.TECH PROGRAMME

PROGRAMME EDUCATION OBJECTIVES

PEO1	To create knowledge about core areas related to the field of computer science and information technology.
PEO2	To enable students to apply mathematics, science and computer engineering principles to model, design and implement software projects to meet customers' business objectives.
PEO3	To develop the ability to evaluate the computing systems from view point of quality, security, privacy, cost effectiveness, utility and ethics.
PEO4	To inculcate lifelong learning by introducing principles of group dynamics, public policies, environmental and societal context

PROGRAMME OUTCOMES

PO1	**Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	**Problem analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	**Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	**Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	**Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	**The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7	**Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	**Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	**Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	**Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	**Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	**Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAMME SPECIFIC OUTCOMES

PSO1	Ability to design and develop computing systems using concepts of Mathematics, Computer Engineering and other related disciplines to meet customers' business objectives.
PSO2	Ability to test and analyze the quality of various subsystems and to integrate them in order to evolve a larger computing system.

YMCA UNIVERSITY OF SCIENCE AND TECHNOLOGY, FARIDABAD
SYNOPSIS OF
SCHEME OF STUDIES & EXAMINATIONS
4 YEARS BACHELOR of TECHNOLOGY PROGRAMME IN
COMPUTER ENGINEERING
SEMESTER I – VIII
(w.e.f. Session 2017-18)

B. TECH SCHEME CREDITS CALCULATIONS

S.No.	Category of Courses	Contact Hours	Credits
1.	Programme Core Courses (PCC)	90	90
2.	Ability Enhancement Compulsory Courses (AECC)	10	9
3.	Skill Enhancement Courses (SEC)	52	36
4.	Discipline Specific Elective Courses (DSE)	12	12
5.	General elective Courses (GEC)	6	6
6.	Basic Science Courses (BSC)	25	22
7.	Basic Engineering Courses (BEC)	22	17
8.	Mandatory Audit Courses (MAC)	4	0
9.	Massive Open Online Courses (MOOCS)	0	4 to 6
	Total	**221**	**196 to 198**

Note: 1. MOOCS course will be opted by students any time during from III to VI semester of their B. Tech programme.

SEMESTER WISE SUMMARY OF THE PROGRAMME

S.No.	Semester	No. of Contact Hours	Marks	Credits
1.	I	32	850	26
2.	II	35	900	26
3.	III	30	700	25
4.	IV	34	700	28
5.	V	31	800	26
6.	VI	34	850	27
7.	VII	25	700	24
8.	VIII	One Semester	500	10
	Total	**221**	**6000**	**192**
	Total with MOOCS			**196 to 198**

Note: Four credits for the MOOCS course are to be earned in any semester from III to VI.

BASIC ENGINEERING COURSES (BEC)

S.No.	Name of Course	No. of Contact Hours	No. of Credits	Semester
1.	Elements of Electronics Engineering	3	3	I
2.	Basics of Mechanical Engineering	3	3	I
3.	Basics of Mechanical Engineering Lab	2	1	I
4.	Basic Electrical Technology	3	3	II
5.	Fundamentals of Computers & Programming with C	3	3	II
6.	Electrical Technology Lab	2	1	II
7.	Fundamentals of Computers & Programming with C Lab	2	1	II
8.	Engineering Drawing	4	2	II
	Total	**22**	**17**	

BASIC SCIENCE COURSES (BSC)

S.No.	Name of Course	No. of Contact Hours	No. of Credits	Semester
1.	Physics-I	4	4	I
2.	Mathematics-I	4	4	I
3.	Chemistry	3	3	I
4.	Physics Lab-I	2	1	I
5.	Chemistry Lab	2	1	I
6.	Physics-II	4	4	II
7.	Mathematics-II	4	4	II
8.	Physics Lab-II	2	1	II
	Total	**25**	**22**	

PROGRAMME CORE COURSES (PCC)

Sr. No.	Subject Code	Name of the subject	**No. of Lectures**	**No of Credits**	**Semester**
1.	CE-201C	Data Structures using C	4	4	III
2.	CE-203C	Discrete Structures	4	4	III
3.	CE-205C	Computer Networks	4	4	III
4.	CE-207C	Digital Electronics and Computer Organization	3	3	III
5.	CE-209C	Theory of Automata & Computation	4	4	III
6.	CE-211C	Introduction to E-commerce and ERP	3	3	III
7	CE-202C	Database Management System	4	4	IV
8	CE-204C	Analysis and Design of Algorithms	4	4	IV
9	CE-206C	System Software Design	4	4	IV
10	CE-208C	Object-Oriented Programming using C++	4	4	IV
11	CE-210C	Microprocessor and Interfacing	4	4	IV
12	CE-212C	Wireless Communication	4	4	IV
13	CE-301C	Principles of Operating System	4	4	V
14	CE-303C	Internet Fundamentals & Web Technology	3	3	V
15	CE-305C	Computer Graphics and Multimedia Technology	4	4	V
16	CE-307C	Core Java	3	3	V
17	CE-309C	Data Warehousing and Data Mining	4	4	V
18	CE-302C	Principles of Software Engineering	4	4	VI
19	CE-304C	Unix and Shell programming	3	3	VI
20	CE-306C	Digital System Design	3	3	VI
21	CE-308C	Cloud Computing	4	4	VI
22	CE-401C	Advanced Computer Architecture	4	4	VII
23	CE-403C	Security of Information Systems	4	4	VII
24	CE-405C	Software Testing	4	4	VII
			90	90	

ABILITY ENHANCEMENT COMPULSARY COURSES (AECC)

S.No.	Name of Course	No. of Contact Hours	Credits	Semester
1.	Environmental Science	3	3	I
2.	Essentials of Communications	3	3	II
3.	Language Lab	2	1	II
4.	Seminar	2	2	VII
	Total	**10**	**9**	

Skill Enhancement Courses

Sr. No.	Lab Code	Name of the lab	No. of contact hours	Credits	Semester
1	CE-251C	Data Structures using C Lab	4	2	III
2	CE-253C	Software Tools Lab	2	1	III
3	CE-252C	DBMS Lab	4	2	IV
4	CE-258C	C++ Programming Lab	4	2	IV
5	CE-351C	Operating System Lab	4	2	V
6	CE-353C	Internet Fundamentals & Web Technology Lab	2	1	V
7	CE-355C	Computer Graphics and Multimedia Technology Lab	2	1	V
8	CE-357C	Core Java Lab	2	1	V
9	CE-352C	Principal of Software Engineering Lab	2	1	VI
10	CE-354C	Unix & Shell Programming Lab	2	1	VI
11	CE-356C	Digital System Design Lab	2	1	VI
12	CE-455C	Software Testing Lab	2	1	VII
		Total	32	16	

Skill Enhancement Courses (SEC)

S.No	Name of Subject	No. of contact hours	Credits	Semester
1	Workshop-I	6	3	I
2	Workshop-II	6	3	II
3	Project	8	4	VI
4	Industrial Training	one semester	10	VIII
		20+One semester Training	20	

Discipline Specific Electives (DSE)

Sr. No.	Subject Code	Name of the subjects	No. of contact hours	Credits
DSE Group I	CE-311C	Distributed Operating System	3	3
	CE-313C	Data Compression Techniques	3	3
	CE-315C	Fuzzy Logic	3	3
	CE-317C	Real Time System	3	3
	CE-319C	Statistics and Research methodology	3	3
DSE Group II	CE-310C	Artificial Intelligence and Expert Systems	3	3
	IT-304C	Advanced Client Server Technology	3	3
	CE-312C	Neural Networks	3	3
	CE-314C	Natural Language Processing	3	3
DSE Group III	CE-407C	Object-oriented System Development	3	3
	CE-409C	Software Project Management	3	3
	CE-411C	Wireless Sensor Networks	3	3
	CE-413C	Big Data Analytics	3	3
	CE-415C	Mobile Application Development	3	3
DSE Group IV	CE-417C	Network Programming and Administration	3	3
	IT-301C	Mobile Ad-hoc Networks	3	3
	CE-419C	Web Mining	3	3

	CE-421C	Agent Based Computing	3	3
	CE-423C	Internet of Things	3	3
	CE-425C	Semantic Web	3	3
			12	12

General Elective Course

S.No.	Name of Course	No. of Contact Hours	No. of Credits	Semester
1.	General Elective Course I	3	3	VI
2.	General Elective Course II	3	3	VII
	TOTAL	**6**	**6**	

Courses offered by Computer Engineering Department

S.No.	Code	Name of Course	No. of Contact Hours	Credits
1.	GC-101C	Intelligent Systems	3	3
2.	GC-102C	Cyber laws and Security	3	3
3.	GC-103C	Soft Computing	3	3
4.	GC-104C	Web Technology and Information Retrieval	3	3
5.	GC-105C	Intellectual Property and Rights	3	3

Courses offered by Electrical Engineering Department

S.No.	Code	Name of Course	No. of Contact Hours	Credits
1.	GL-201C	Installation Testing & Maintenance of Electrical Equipments	3	3
2.	GL-202C	Utilization of Electrical Power & Traction	3	3

Courses offered by Electronics Engineering Department

S.No.	Code	Name of Course	No. of Contact Hours	Credits
1.	GE-401C	Microprocessor and Interfacing	3	3
2.	GE-402C	Digital Signal Processing	3	3
3.	GE-403C	Instrumentation and Control	3	3
4.	GE-404C	Data Communication and Networking	3	3

Courses offered by HAS Department

S.No.	Code	Name of Course	No. of Contact Hours	Credits
1.	GA-501C	Soft Skills for Engineers	3	3
2.	GA-502C	Maths –III	3	3

Courses offered by MBA Department

S.No.	Code	Name of Course	No. of Contact Hours	Credits
1.	GB-601C	Human Resource Management	3	3
2.	GB-602C	Financial Management	3	3
3.	GB-603B	Marketing Management	3	3
4.	GB-604B	Entrepreneur Development	3	3
5.	GB-605B	Principles of Management and Economics	3	3

Mandatory Audit Courses

Sr. No.	Code	Name of the subject
1.	AC-101C	German-1
2.	AC-102C	German-2(With German-1 as prerequisite)
3.	AC-103C	French-1
4	AC-104C	French-2(With French-1 as prerequisite)
5	AC-105C	Sanskrit-1
6	AC-106C	Sanskrit-2(With Sanskrit-1 as prerequisite)
7	AC-107C	Personality Development
8	AC-108C	Interview and Group discussion skills
9	AC-109C	Yoga and Meditation
10	AC-110C	Art of living/Living Skills
11	AC-111C	Contribution of NSS towards Nation/role of NSS
12	AC-112C	Physical Education

Note: Students will have to select any two out of the list.

GRADING SCHEME

Marks %	Grade	Grade points	Category
90-100	O	10	Outstanding
80<marks<90	A+	9	Excellent
70<marks< 80	A	8	Very good
60<marks< 70	B+	7	Good
50<marks< 60	B	6	Above average
45<marks< 50	C	5	Average
40<marks< 45	P	4	Pass
<40	F	0	Fail
	Ab	0	Absent

Percentage calculation= CGPA * 9.5

YMCA UNIVERSITY OF SCIENCE AND TECHNOLOGY, FARIDABAD
B.Tech(COMPUTER ENGINEERING)
Scheme of Studies/Examination
Semester 1

Course No.	Course Title	Teaching Schedule			Marks For	Marks for End Term Examination		Total Marks	Credits	Course Type
		L	P	TOTAL	Sessionals	Theory	Practical			
HAS-101C	Physics-I	4	-	4	25	75	-	100	4	BSC
HAS-103C	Mathematics-I	4	-	4	25	75	-	100	4	BSC
HAS-105C	Chemistry	3	-	3	25	75	-	100	3	BSC
HAS-107C	Environmental Science Studies	3	-	3	25	75	-	100	3	AECC
EL-101C	Elements of Electronics Engg Engineering	3	-	3	25	75	-	100	3	BEC
ME-101C	Basics of Mechanical Engg. Engineering	3	-	3	25	75	-	100	3	BEC
HAS-151C	Physics Lab-I	-	2	2	15	-	35	50	1	BSC
HAS-155C	Chemistry Lab	-	2	2	15	-	35	50	1	BSC
ME-151C	Basics of Mechanical Engineering Lab	-	2	2	15	-	35	50	1	BEC
CE-161C	Workshop-I	-	6	6	30	-	70	100	3	SEC
	Total	**2**	**1**	**32**	**225**	**450**	**175**	**850**	**26**	

Note: Exams duration will be as under

(a) Theory exams will be of 03 hours duration.
(b) Practical exams will be of 02 hours duration
(c) Workshop exam will be of 03 hours duration

YMCA UNIVERSITY OF SCIENCE AND TECHNOLOGY, FARIDABAD
B.Tech(COMPUTER ENGINEERING)
Scheme of Studies/Examination
Semester 2

Course No.	Course Title	Teaching Schedule			Marks for Sessionals	Marks for End Term Examination		Total Marks	Credits	Course Type
		L	P	Total		Theory	Practical			
HAS-102C	Physics-II	4	-	4	25	75	-	100	4	BSC
HAS-104C	Mathematics-II	4	-	4	25	75	-	100	4	BSC
HAS-109C	Essentials of Communication	3	-	3	25	75	-	100	3	AECC
EE-101C	Basic Electrical Engineering	3	-	3	25	75	-	100	3	BEC
CE-101C	Fundamentals of Computer & Programming with C	3	-	3	25	75	-	100	3	BEC
HAS-152C	Physics Lab-II	-	2	2	15	-	35	50	1	BSC
CE-151C	Fundamentals of Computer & Programming with C Lab	-	2	2	15	-	35	50	1	BEC
EE-151C	Electrical Technology	-	2	2	15	-	35	50	1	BEC
HAS-159C	Language lab	-	2	2	15	-	35	50	1	AECC
ME-152C	Engineering Drawing	-	4	4	30	-	70	100	2	BEC
CE-162C	Workshop- II	-	6	6	30	-	70	100	3	SEC
	Total	**17**	**18**	**35**	**245**	**375**	**280**	**900**	**26**	

Note: Exams duration will be as under

(a) Theory exams will be of 03 hours duration.
(b) Practical exams will be of 02 hours duration
(c) Workshop exam will be of 03 hours duration

YMCA University of Science and Technology, Faridabad
B.Tech (Computer Engineering)
Scheme of Studies / Examination
Semester – 3

Course Code	Course Title	Teaching Schedule				Sessional Marks	Marks for End Term Examination		Total Marks	Credits	Type of Course
		L	T	P	TOTAL		T	P			
CE-201C	Data Structures using C	3	1	-	4	25	75	-	100	4	PCC
CE-203C	Discrete Structures	4	-	-	4	25	75	-	100	4	
CE-205C	Computer Networks	4	-	-	4	25	75	-	100	4	
CE-207C	Digital Electronics & Computer Organization	3	-	-	3	25	75	-	100	3	
CE-209C	Theory of Automata & Computation	3	1	-	4	25	75	-	100	4	
CE-211C	Introduction to E-Commerce and ERP	3	-	-	3	25	75	-	100	3	
	Mandatory Audit Course 1	2		-	2	-	-	-	-	-	MAC
CE-251C	Data Structures using C Lab	-		4	4	15	-	35	50	2	SEC
CE-253C	Software Tools Lab	-		2	2	15	-	35	50	1	
	Total	22	2	6	30	180	450	70	700	25	

Note: Exam duration will be as under
(a)Theory exams will be of 3 hours duration
(b)Practical exams will be of 3 hours duration

YMCA University of Science and Technology, Faridabad
B.Tech (Computer Engineering)
Scheme of Studies / Examination
Semester – 4

Course No	Course Title	Teaching Schedule				Sessional Marks	Marks for End Term Examination		Total Marks	Credits	Type of Course
		L	T	P	TOTAL		Theory	Practical			
CE-202C	Database Management System	3	1	-	4	25	75	-	100	4	PCC
CE-204C	Analysis and Design of Algorithms	3	1	-	4	25	75	-	100	4	
CE-206C	System Software Design	4	-	-	4	25	75	-	100	4	
CE-208C	Object-Oriented Programming using C++	4	-	-	4	25	75	-	100	4	
CE-210C	Microprocessor & Interfacing	4	-	-	4	25	75	-	100	4	
CE-212C	Wireless Communication	4	-	-	4	25	75	-	100	4	
	Mendatory Audit Course-2	2		-	2	-	-	-	-	-	MAC
CE-252C	DBMS Lab	-		4	4	15	-	35	50	2	
CE-258C	C++ Programming Lab	-		4	4	15	-	35	50	2	SEC
	Total	24	2	8	34	180	450	70	700	28	

Initially the syllabus will be prescribed by the concerned teacher which will be a standard one and shall be taken from a credible reference such as reputed University/Institution.

Note: Exam duration will be as under

(a)Theory exams will be of 3 hours duration

(b)Practical exams will be of 3 hours duratio

YMCA University of Science and Technology, Faridabad
B.Tech (Computer Engineering)
Scheme of Studies / Examination
Semester – 5

Course No	Course Title	Teaching Schedule				Sessional Marks	Marks for End Term Examination		TOTAL MARKS	CREDITS	Type of Course
		L	T	P	TOTAL		Theory	Practical			
CE-301C	Principles of Operating System	3	1	-	4	25	75	-	100	4	PCC
CE-303C	Internet Fundamentals & Web Technology	3	-	-	3	25	75	-	100	3	
CE-305C	Computer Graphics and Multimedia Technology	3	1	-	4	25	75	-	100	4	
CE-307C	Core Java	3	-	-	3	25	75	-	100	3	
CE-309C	Data Warehousing and Data Mining	4	-	-	4	25	75	-	100	4	
	Elective 1	3			3	25	75		100	3	DSE
CE-351C	Operating System Lab	-		4	4	15	-	35	50	2	SEC
CE-353C	Internet Fundamentals & Web Technology Lab	-		2	2	15	-	35	50	1	
CE-355C	Computer Graphics and Multimedia Technology Lab	-		2	2	15	-	35	50	1	
CE-357C	Core Java Lab	-		2	2	15	-	35	50	1	
	Total	19	2	10	31	210	450	140	800	26	

Elective-I

CE-311C	Distributed Operating System
CE-313C	Data Compression Techniques
CE-315C	Fuzzy Logic
CE-317C	Real Time System
CE-319C	Statistics and Research methodology

Note: Exam duration will be as under

(a)Theory exams will be of 3 hours duration

(b)Practical exams will be of 3 hours duration

YMCA University of Science and Technology, Faridabad
B.Tech (Computer Engineering)
Scheme of Studies / Examination

Semester – 6

Course No	Course Title	Teaching Schedule				Marks Sessional	Marks for End Term Examination		TOTAL MARKS	CREDITS	TYPE OF COURSE
		L	T	P	TOTAL		Theory	Practical			
CE-302C	Principles of Software Engineering	4	-	-	4	25	75	-	100	4	PCC
CE-304C	Unix and Shell programming	3	-	-	3	25	75	-	100	3	
CE-306C	Digital System Design	3	-	-	3	25	75	-	100	3	
CE-308C	Cloud Computing	4	-	-	4	25	75	-	100	4	
	Elective II	3		-	3	25	75	-	100	3	DSE
	General Elective Course-1	3		-	3	25	75	-	100	3	GEC
CE-318C	Project	-		8	8	25		75	100	4	SEC
CE-352C	Principles of Software Engineering Lab	-		2	2	15	-	35	50	1	SEC
CE-354C	Unix & Shell Programming Lab	-		2	2	15	-	35	50	1	
CE-356C	Digital System Design Lab	-		2	2	15	-	35	50	1	
	Total	20	-	14	34	220	450	180	850	27	

Elective 2

CE-310C	Artificial Intelligence and Expert Systems
IT-304C	Advanced Client Server Technology
CE-312C	Neural Networks
CE-314C	Natural Language Processing

Note: Exam duration will be as under

(a)Theory exams will be of 3 hours duration

(b)Practical exams will be of 3 hours duration

YMCA University of Science and Technology, Faridabad
B.TECH (COMPUTER ENGINEERING)
SCHEME OF STUDIES/EXAMINATION

Semester-7

Course No	Course Title	Teaching Schedule				Marks For Sessionals	Marks for End Term Examination		TOTAL MARKS	CREDITS	TYPE OF COURSE
		L	T	P	TOTAL		THEORY	PRACTICAL			
CE-401C	Advanced Computer Architecture	4	-	-	4	25	75	-	100	4	PCC
CE-403C	Security of Information Systems	4	-	-	4	25	75	-	100	4	
CE-405C	Software Testing	4	-	-	4	25	75	-	100	4	
	Elective-III	3		-	3	25	75	-	100	3	DSE
	Elective-IV	3		-	3	25	75	-	100	3	
	General Elective Course-II	3		-	3	25	75		100	3	GEC
CE-427C	Seminar	-		2	2	50			50	2	AECC
CE-455C	Software Testing Lab	-		2	2	15		35	50	1	SEC
	Total	21	-	4	25	215	450	35	700	24	

Elective 3

CE-407C	Object-oriented System Development
CE-409C	Software Project Management
CE-411C	Wireless Sensor Networks
CE-413C	Big Data Analytics
CE-415C	Mobile Application Development

Elective 4

CE-417C	Network Programming and Administration
IT-301C	Mobile Ad-hoc Networks
CE-419C	Web Mining
CE-421C	Agent Based Computing
CE-423C	Internet of Things
CE-425C	Semantic Web

Note: Exam duration will be as under

(a)Theory exams will be of 3 hours duration

(b)Practical exams will be of 3 hours duration

YMCA University of Science and Technology, Faridabad

B.TECH (COMPUTER ENGINEERING)
SCHEME OF STUDIES/EXAMINATION

Semester-8

S. No.	Course No.	Subject	Teaching Schedule	Examination Schedule (Marks)		Total (Marks)	Credits
1	CE-402C	Industrial Project Training	8 hours per day for one semester	200	300	500	10

Procedure for Annual Examination and continuous Assessment

(A) Annual Exams Marks

1. Project Evaluation 50 Marks
2. Project Seminar 50 Marks
3. Project Viva 100 marks

(B) Continuous Assessment Marks

1. Assessment by Institute faculty 100 Marks
2. Assessment by Industrial Guide 150 Marks
3. Conduct Marks 50 Marks

Total 500 Marks