

(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Megha Sardana** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752001** has successfully completed the sixth month project under the title **Green synthesis: Harnessing neem power for making silver nanoparticles** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia
(Chairperson, Physics)



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Aanchal wadhwa** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752002** has successfully completed the sixth month project under the title **High energy storage capacity of mxenes** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Aarti** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752003** has successfully completed the sixth month project under the title **Comprehensive analysis of magnetic properties in bismuth ferrite and cobalt hexaferrite composite multiferroic ceramics** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia
(Chairperson, Physics)



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Ambika** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752004** has successfully completed the sixth month project under the title **Schottky diode deposition by using Aluminium/CZTS thin film** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Bhanushreya Sharma** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752005** has successfully completed the sixth month project under the title **The Big Bang Theory** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Bindu** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752006** has successfully completed the sixth month project under the title **Study of Raman spectroscopy** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Chanchal** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752007** has successfully completed the sixth month project under the title **Variation of band gap in CeO2 using quantum espresso** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Deepak kumar** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752009** has successfully completed the sixth month project under the title **Mycellium based materials and composites** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Jaishree Jainth** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752010** has successfully completed the sixth month project under the title **Synthesis and characterisation of Bismuth Telluride by thermal evaporation** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia
(Chairperson, Physics)



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Jyoti** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752011** has successfully completed the sixth month project under the title **Synthesis of cerium oxide nanoparticles and characterization** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Kajal** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752012** has successfully completed the sixth month project under the title **Sodium - ion battery reviewing past**, **present and future aspects** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Kajal Adhana** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752013** has successfully completed the sixth month project under the title **Black hole - past, present and future aspects** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Kalpana bhardwaj** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752014** has successfully completed the sixth month project under the title **Microstrip patch antenna application textile antenna** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Kanak** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752015** has successfully completed the sixth month project under the title **Review on acclerating expansion of universe** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Kanika** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752016** has successfully completed the sixth month project under the title **Czts based heterostructure diode fabrication and characterization** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Kanika** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752017** has successfully completed the sixth month project under the title **Non-linear** wave interaction in ionosphere in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Kanika Garg** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752018** has successfully completed the sixth month project under the title **UV-Visible spectroscopy** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Kunika goyal** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752020** has successfully completed the sixth month project under the title **Structural analysis of multiferroic composite materials** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Lisha Yadav** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752021** has successfully completed the sixth month project under the title **Biodegradable plastic from Algae** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Mamta** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752022** has successfully completed the sixth month project under the title **Variation** in band gap by using quantum espresso in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



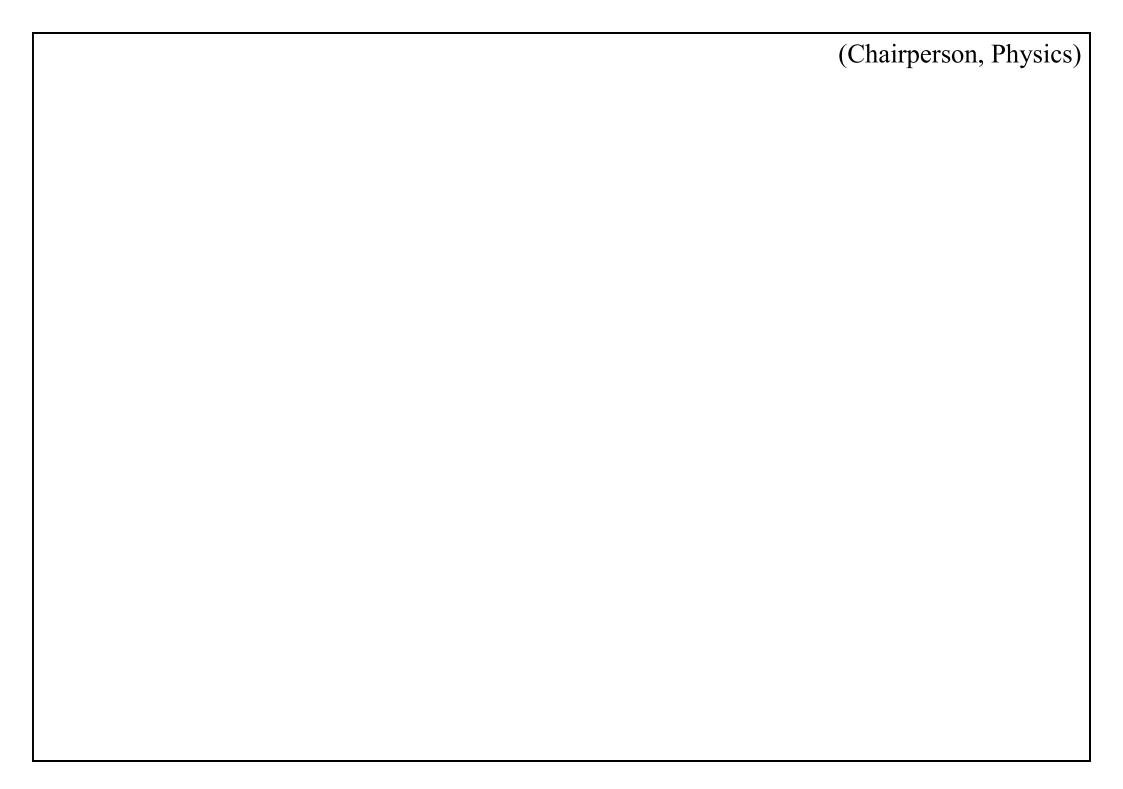
(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that MANISHA BHARDWAJ a student of M.Sc. (Physics) session 2022-2024 under the Roll No. 22001752023 has successfully completed the sixth month project under the title MAGNETOELECTRIC PROPERTIES EVOLUTION IN COMPOSITE MULTIFERROICS CERAMICS BASED ON FERRITE AND COBALT HEXAFERRITE in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia





(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **MANSI VATS** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752025** has successfully completed the sixth month project under the title **A theoretical study of the interferometric fiber sensor** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Monica** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752026** has successfully completed the sixth month project under the title **Transition metal based electro catalysts for alkaline water splitting for oxygen evolution reaction** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia
(Chairperson, Physics)



J.C. Bose University of Science and Technology, YMCA, Faridabad (A Haryana State Government University) (Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Neetu** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752027** has successfully completed the sixth month project under the title **Synthesis and characterization of Magnetite Nanoparticles by coprecipitation method and it's application in removal of heavy metals from wastewater in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.**

Dr. Sonia
(Chairperson, Physics)



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Neha** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752028** has successfully completed the sixth month project under the title **Al/czts schottky-diode** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **NIKKU MAHALA** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752029** has successfully completed the sixth month project under the title **DYE SENSITIZED SOLAR CELLS: FUNDAMENTALS AND MODELING** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia
(Chairperson, Physics)



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Pragya Dangwal** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752030** has successfully completed the sixth month project under the title **Synthesis and characterisation of Germanium Antimony Telluride** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Preeti** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752032** has successfully completed the sixth month project under the title **Dielectric properties of bismuth ferrite and copper ferrite** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Rakesh Kumar** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752034** has successfully completed the sixth month project under the title **Study of X-Ray Diffraction Technique** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Rishant** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752035** has successfully completed the sixth month project under the title **Black hole**, **Singularity and Galaxy formation** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Ritika kaushik** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752036** has successfully completed the sixth month project under the title **Recycling of lithium ion battery** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that Saloni choudhary a student of M.Sc. (Physics) session 2022-2024 under the Roll No. 22001752037 has successfully completed the sixth month project under the title Theoretical Study of Manufacturing and Fabrication of Nitinol alloy and its use in Variable Geometry Chevron for Jet Noise Reduction in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia
(Chairperson, Physics)



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Sanjana** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752038** has successfully completed the sixth month project under the title **Role of MXenes in different applications** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **SHASHI PRABHA** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752039** has successfully completed the sixth month project under the title **Synthesis and characterization of cerium dioxide** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Shruti Sharma** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752040** has successfully completed the sixth month project under the title **Czts based thin film solar cell fabrication and characterization** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Shruti chhawari** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752041** has successfully completed the sixth month project under the title **Rotational tokamak plasma** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Shruti** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752042** has successfully completed the sixth month project under the title **Stellar Evolution** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Sikha** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752043** has successfully completed the sixth month project under the title **Variation of band gap of CeO2 when doped with Sm** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Sujal Yadav** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752045** has successfully completed the sixth month project under the title **Mxenes-A 2D material and its application in photocatalysis** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Tanu** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752046** has successfully completed the sixth month project under the title **Synthesis and characterization of CZTS nanoparticles as thermoelectric material** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Upasana Singh** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752047** has successfully completed the sixth month project under the title **Aluminium ion battery** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Urmila** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752048** has successfully completed the sixth month project under the title **Lead acid battery** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Vivek Gupta** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752049** has successfully completed the sixth month project under the title **Synthesis Time and Temperature Effects on Magnetoelectric Properties of Bismuth Ferrite and Cobalt Hexaferrite Composite Multiferroic Ceramics in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.**

Dr. Sonia
(Chairperson, Physics)



(A Haryana State Government University)
(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Vivek Kumar** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752050** has successfully completed the sixth month project under the title **MONO CRYSTALLINE SOLAR CELL** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that **Yogita** a student of M.Sc. (Physics) session 2022-2024 under the Roll No. **22001752051** has successfully completed the sixth month project under the title **Vacuum Pumping system for various potential applications** in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia



(Accredited 'A+' grade by NAAC)

Department of Physics

Certificate

This is to certify that YUKTI a student of M.Sc. (Physics) session 2022-2024 under the Roll No. 22001752052 has successfully completed the sixth month project under the title STUDY OF ENERGY GAP FOR SUPERCONDUCTORS in fulfilment of M.Sc. Degree in Physics in J.C. Bose University of Science and Technology, YMCA, Faridabad.

Dr. Sonia