

Annexure I

Degrees in the following relevant branches/specializations at B.E./B.Tech./ M.E./M.Tech./ and Ph.D. level for various departments are required from the applicants:

S. No.	Department	B.E./B.Tech Branch*	M.E./ M.Tech/ M.Sc./MA Branch/ Specializations*	Ph.D.	Preferred Areas / Specializations
1.	Computer Science & Engineering	1. Computer Science & Engineering 2. Computer Science and Information Technology 3. Information & Communication Technology 4. Computer Science & Technology 5. Computer Science & Engineering (Artificial Intelligence) 6. Computer Science & Engineering (Machine Learning) 7. Computer Science & Engineering (Data Science) 8. Mathematics & Computing 9. Computer Science Application 10. Computer Science and Engineering	1. Computer Science & Engineering 2. Computer Science and Information Technology 3. Information & Communication Technology 4. Computer Science & Technology 5. Computer Science & Engineering (Artificial Intelligence) 6. Computer Science & Engineering (Machine Learning) 7. Computer Science & Engineering (Data Science) 8. Mathematics & Computing 9. Computer Science Application 10. Computer Science and Engineering (Cyber Security) 11. Computer Science &	Specialization areas equivalent / related to Computer Science & Engineering, Data Science, Artificial Intelligence or any other equivalent and related area	Artificial Intelligence, Machine Learning, Soft Computing, Natural Language Processing, Speech Technology, Bio-Informatics, Wireless Sensor Networks, Networks & Security, Mobile & Adhoc Networks, Deep Learning, Medical Imaging, IOT & related areas, Software Engineering, Software Testing, Information retrieval, Prediction Algorithms, Cryptography, Data Analytics, Fault-Tolerant Distributed Computing, Explainable Artificial Intelligence and Blockchain Technology, IOT, SDN, Wireless Communication, Network Security, AI & ML, VANET, Web Crawling, Dark Web and

		(Cyber Security) 11. Computer Science & Engineering (Software Engineering) 12. Electronics & Computer Engg 13. Electrical & Computer Engg 14. Or Any Other Equivalent related branch	Engineering (Software Engineering) 12. Electronics & Computer Engg 13. Electrical & Computer Engg 14. Or Any Other Equivalent related branch		Deep Web, Latest Areas Related to Covid 19, Automata Theory or any other equivalent and related area
2.	Aerospace Engg.	Aeronautical/ Aerospace Engg.	Aeronautical/Aerospace/Aerodynamic Engg./Propulsion Engineering/Rocket Propulsion/Aerospace Propulsion Technology/Space Engineering and Rocketry/Astronomy & Space Engineering/Gas Turbine Technology/Turbo Machinery/Internal Combustion Engine and Turbo Machinery/Mechanical in Rotodynamics/Rotodynamic Machines/Avionics/Flight Mechanics/Aerospace Materials/ and allied branches	Aeronautical/ Aerospace/ Any Allied branch	Avionics, Aircraft Structures, CFD, Aero materials, allied branch
3.	Electrical Engg.	Electrical Engineering/ Electrical and Electronics Engineering	Electrical/ Power System (Engineering) / Control System (Engineering) /Power Electronics/ Electric Machines/ Electric Drives/ Automation/ Instrumentation/ Energy System/	Ph.D.	I. Control Engineering II. Power Electronics III. Power System IV. Instrumentation V. Electrical Machine VI. Electric Drives VII. Energy System

			Renewable/ Power Apparatus/ Signal Processing OR at least any one of the above specializations in combination with other specializations.		VIII. Automation
4.	Electronics & Communication Engg.	<ul style="list-style-type: none"> • Electronics and Electrical Communication Engg. • Electronics & Communication Engg. • Electronics & Tele-communication Engineering. 	<ul style="list-style-type: none"> • Electronics Engg. • Electronics Product Design & Technology • VLSI Design • Communication Engg. • Electronics & Communication Engg. • Electronics & telecommunication Engg. • Electronics (VLSI Design) • Embedded System • Microelectronics • Microelectronics System Design • Microwave Engg. • Optical Communication • Nanoelectronics • Electronics & Electrical Communication Engg. • Digital Signal Processing • Digital Image Processing 	-	<ul style="list-style-type: none"> • Electronic Engg. • Electronics & Communication Engg. • Electronics & Electrical Communication Engineering • Electrical & Electronics Engineering • Photonics • Microelectronics • Communication Engg. • Embedded System • VLSI • Optical Communication • Nanoelectronics • Digital Signal Processing • Microwave Engg. • Wireless Communication • Digital Image Processing
5.	Mathematics	-	M.A/M.Sc. in Mathematics/Applied Mathematics	Ph.D. Mathematics/ Applied Mathematics	All Specializations of Mathematics/ Applied Mathematics

6.	Bachelor of Design (B.Des.)	Bachelor of Design (B.Des.)/ Bachelor of Technology (B.Tech/BE) Bachelor of Architecture (B.Arch.)	Master of Design (M. Des)/ Master of Technology (M Tech) in Design or related subject	Design or with related subject	Product Design, Industrial Design, Animation Film Design, Artificial Intelligence in Design, Interaction Design, Information Design, Digital Game Design, Exhibition Design, Film & Video Communication, Graphic Design, New Media Design, Vehicle Design, Filmmaking, Cinematography, Editing, Sound Design, Music Production, VFX, Visual Communication, Typography and Publication Design, Digital Media, Augmented Reality, Virtual Reality, Usability, Human Centered Design, Information Architecture, Basic Design, Advertising and Branding/Strategic Design
		Bachelor of Fine Arts (BFA) (4Year Course) Bachelor of Arts (4 Year Course)	Master of Fine Arts (MFA)/ Master of Design (M. Des)		

* For exceptional candidates, equivalence of branch/ specialization may be considered by the Selection Committee.