

Annexure I

Requirement of relevant branches/specializations at B.E./B.Tech./ M.E./M.Tech./ and Ph.D. levels for various Departments/Centres:

Sr. No.	Department/ Centre	Branch for Bachelor's Degree	Branch/ Specialization for Master's Programme	Ph.D Degree Specialization, if any	Preferred Areas / Specializations for Teaching/ Research
1.	Computer Science & Engineering	Computer Science & Engineering, Computer Science and Information Technology, Computer Engineering, Information Technology, Computer Science & Technology, Computer Science & Engineering (Artificial Intelligence), Computer Science & Engineering (Machine Learning), Computer Science & Engineering (Data Science), Computer Science & Engineering (Software Engineering), Or Any Other Equivalent related branch	Computer Science & Engineering, Computer Science and Information Technology, Computer Engineering, Information Technology, Computer Science & Technology, Computer Science & Engineering (Artificial Intelligence), Computer Science & Engineering (Machine Learning), Computer Science & Engineering (Data Science), Computer Science & Engineering (Software Engineering), Or Any Other Equivalent related branch	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 Block chain Technology, IOT, SDN, Wireless Communication, Network Security, AI & ML, VANET, Web Crawling, Dark Web and Deep Web, Latest Areas Related to Covid 19, Automata Theory or any other equivalent and related area
2.	Aerospace Engineering	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/	Aeronautical / Aerospace / Any Allied Branch	Avionics, Aerodynamics, Propulsion, Structures, Flight Mechanics, Control & guidance, any other relevant area.

			Internal Combustion Engine and Turbo Machinery/ Mechanical in Rotodynamics/ Roto Dynamic Machines/ Avionics/ Flight Mechanics / Aerospace Materials and any other relevant area.		
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