The minimum essential qualifications with relevant fields and desirable areas of specialization in the departments which have vacancies for the post of <u>Associate Professor</u>

(For first round of rolling advertisement)

Sr. No.	Name of	Minimum Essential Qualifications with relevant	Specializations
	Department	fields	
1.	Civil Engineering	B.E./B.Tech. or equivalent in Civil Engineering/planning or B. Plan M.E./M.Tech. or equivalent in Civil Engineering/Surveying/ Transportation Engineering/Earth Sciences / Structural Engineering/Water Resources Engineering/Environmental Engineering/Remote Sensing and GIS/Civil Engineering Materials/Construction & Project Management or relevant discipline/M.Plan/Master of Town & Regional Planning / Master of City Planning/M.Tech. (Planning) Ph.D. in relevant discipline	 Construction and Project Management, Building Information Modelling, Construction Law, Quality & Safety Management, Digital Technology, Internet of Things, Equipment Management Urban Planning/City Planning/ Regional Planning/Urban Design/M. Plan/Master of Town & Regional Planning/Master of City Planning/ M. Tech. (Planning) Any Specialisation in Environmental Engineering Rock Mechanics/Geotechnical Engineering Transportation Planning: Travel Demand Modelling, Transportation Network Analysis, Freight Transportation, Public Transportation Systems, Geospatial Technologies in Transportation Engineering, Highways Materials, Material Characterisation, Pavement Engineering Water Resources Engineering, Hydraulic Engineering, Ocean Engineering, Coastal Engineering, Coastal Hydraulics Structural Engineering/Earthquake Engineering
2.	Chemical Engineering	B.E. / B.Tech. or equivalent in Chemical Engineering M.E. / M.Tech. in Chemical Engineering/ Allied Branches Ph.D. in relevant discipline	 Process Control Chemical Product Design Modelling and Simulation Smart Materials Biochemical Engineering

4.	Computer Science and Engineering Electrical Engineering	B.E./ B. Tech. or equivalent in Computer Science & Engineering/ Computer Engineering/ Information Technology/ Electronics & Communication Engineering/Computer & Communication Engineering/ Computer Technology/Information and Communications Technology/ Electrical & Electronics Engineering/Electronics Engineering/Artificial Intelligence/ Data Science or any relevant discipline M.E./M.Tech. or equivalent in Computer Science & Engineering/ Computer Engineering/ Information Technology/ Electronics & Communication Engineering/ Computer & Communication Engineering/ Computer Technology/Information and Communications Technology/ Electrical & Electronics Engineering/Electronics Engineering/Artificial Intelligence/ Data Science or any relevant discipline Ph.D. in relevant discipline B.E./B. Tech. or equivalent in Electrical Engineering/ Electrical and Electronics Engineering/ Instrumentation and Control Engineering/Electrical Power Engineering/Electrical Engineering and Industrial Control/Power Electronics and Instrumentation Engineering/ Applied Electronics and Instrumentation Engineering/ Applied Electronics and Instrumentation		Machine Learning Natural Language Processing Social Networks Analysis Data Science Deep Learning Artificial Intelligence (Cognitive Computing) Robotics Advance Computer Architecture High Performance Computing Quantum Computing Cloud Computing Image Processing Computer Vision Internet of Things and Cyber Physical Systems Unmanned Aircraft System (Drone and Related Technology) Soft Computing Software Engineering Digital/Interactive Media Digital Forensic
		Engineering/Electrical and Instrumentation Engineering/Power Electronics/Electrical Engineering and Industrial Control/Power Electronics and Instrumentation Engineering/ Applied Electronics		
5.	Electronics Engineering	B.E./B.Tech. or equivalent in Electronics & Communication		Artificial Intelligence/Machine Learning Embedded Systems
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		Engineering/ Electronics/ Communication/ Telecommunication Engineering/ Electrical Engineering/Computer Science & Engineering M.E./M.Tech. or equivalent in Electronics & Communication Engineering/ Electronics/ Communication/ Telecommunication Engineering/ Electrical Engineering/Computer Science & Engineering. or other relevant discipline Ph.D. in relevant discipline	 Analog Mixed Signal VLSI Design Robotics and Computer Vision VLSI Design and Technology 5G Technology Signal Processing RF IC Design and Microwave High-Speed Interconnects Process Integration Nanomaterials and Nanoscience Silicon Photonics Quantum Biomimetic Combinatorial Optimization
6.	Mechanical Engineering	B.E./B.Tech. or equivalent in Mechanical Engineering/ Production Engineering/ Mechanical & Production Engineering/ Design Engineering/ Industrial Engineering/Thermal Engineering/Production & Industrial Engineering/Mechanical & Automation Engineering/ Manufacturing Processes and Automation Engineering/ Manufacturing Engineering M.E./M.Tech. or equivalent in Mechanical Engineering /Design/Industrial/Production/ Thermal or any other relevant specialization Ph.D. in relevant discipline	 Design and Dynamics CAD/CAM, Robotics and Mechatronics Industrial Engineering Turbomachines and Jet Propulsion Thermal and Fluid Engineering Automobile Engineering Materials and Metallurgy Manufacturing and Production Engineering
7.	Artificial Intelligence	B.E./ B. Tech. or equivalent in Computer Science & Engineering / Computer Engineering/ Information Technology/ Electronics & Communication Engineering/Computer & Communication Engineering/ Computer Technology/Information and Communications Technology/ Electrical & Electronics Engineering/Electronics Engineering/Artificial Intelligence/ Intelligence/Data Science or any relevant field M.E./M.Tech. or equivalent in Computer Science & Engineering/ Computer Engineering/ Information Technology/ Electronics & Communication Engineering/Computer & Communication Engineering/ Computer Technology/Information and Communications Technology/ Electrical & Electronics Engineering/Electronics Engineering/Artificial Intelligence/	 Machine Learning Natural Language Processing Social Networks Analysis Data Science Deep Learning Artificial Intelligence (Cognitive computing) Cloud Computing Computer Vision Robotics Cyber Physical Systems Soft Computing

8.	Mathematics	Intelligence/Data Science or any relevant field Ph.D. in relevant discipline Bachelor Degree in Mathematics or equivalent Master Degree in Mathematics or equivalent Ph.D. in relevant discipline	 Probability & Statistics Algebra Topology Number Theory Computational Mathematics
9.	Humanities & Social Sciences	Bachelor Degree of Arts in English Master Degree of Arts in English Ph.D. in relevant discipline	 Indian English literature Indian English Fiction South Asian Fiction Communication Skills Employability Skills Diaspora Literature World Literature
10.	Management Studies	Bachelor Degree in any Discipline Mater degree/MBA or equivalent P.G Degree in Management Ph.D. in relevant discipline	 Business Analytics and Digital Transformation Business Computing Data Analytics Big Data and Cloud Computing Management Accounting Human Resource Management Operation and Supply Chain Management Marketing Strategy General Management Time Series Analysis Econometrics Quantitative Analysis Stock Market Portfolio Management Finance Management Innovation & Entrepreneurship Organisation Behaviour