

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL, WARANGAL -506 004, TELANGANA STATE, INDIA

SPECIALIZATIONS FOR FACULTY RECRUITMENT (Advt.No.Admin.02/2018) ASSISTANT PROFESSOR (GRADE-I & GRADE-II)/ASSOCIATE PROFESSOR / PROFESSOR

The Essential Minimum Academic Qualifications for Posts of Assistant Professor/Associate Professor /Professor are PhD in respective discipline and shall have First Class (at least 6.5 CGPA on a scale of 10 or equivalent or 60% aggregate) in the preceding Degrees. Candidates having PhD degree directly after B.Tech are also eligible and they should have obtained First Class at Bachelor's level

SI. No.	Department	Specialization
1	CIVIL ENGINEERING Assistant Professor / Associate Professor/ Professor	B.Tech. in Civil Engg.,/ Agriculture Engg /Architecture/ Planning/ Geo informatics with Ph.D in any of the following specializations • Structural Engineering • Water Resources Engineering • Geotechnical Engineering • Transportation Engineering • Environmental Engineering • Remote Sensing and GIS • Construction Technology & Management
2	ELECTRICAL ENGINEERING Assistant Professor / Associate Professor/ Professor	B.Tech. in Electrical Engg./Electrical & Electronics Engg./Electrical Power Engg. With Ph.D in any of the following specialization Power Systems Engineering Power Electronics & Drives Power & Energy Systems Power Electronics Electrical Machines & Industrial Drives Control Systems Engineering Instrumentation /Instrumentation & Control Engineering Renewable Sources Electrical Vehicle Technology Smart Grid Technologies Embedded Systems Signal Processing Applied Electronics Power & Control Industrial Electronics High Voltage Engineering

3	MECHANICAL	B.Tech in Mechanical Engg/ Automobile Engg/
	ENGINEERING	Production Engg/ Industrial Engg with Ph.D in
	Assistant Day	any of the following specializations
	Assistant Professor /	
	Associate Professor/	Dynamics and Control
	Professor	Computational/Applied Mechanics And Applied Mechanics
		Geometric ModellingVibration and Acoustics
		Product Design and realizationEngineering Design
		Industrial Engineering
		Robotics and Industrial Automation
		Material testing and evaluation
		Surface Engineering
		Multiphysics simulation of Manufacturing Process
		Al and Machine learning in Mechanical Engineering
		Additive Manufacturing
		Micro and Nano Manufacturing
		 Thermal Engineering
		Energy Systems
		Cryogenics
		Jet Propulsion and Rocketry
		Combustion
		Automobile Engineering
		Production Engineering
4	ELECTRONICS AND	B.Tech in Electronics & Communication Engg.
	COMMUNICATIONS ENGINEERING	with Ph.D in any of the following specializations
		Communication Networks
	Assistant Professor /	RF and Microwaves
	Associate Professor/	Wireless Communications
	Professor	Signal Processing
		Speech Recognition / Speech Processing
		Image Processing
		Electronic Instrumentation
		Biomedical Signal Processing
		Embedded System Design
		Digital Signal Modelling
		Device Modelling
		VLSI System Design
		Advanced Communications Systems
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5	METALLURGICAL AND MATERIALS ENGINEERING	B.Tech in Metallurgy or Metallurgical Engg or Metallurgical & Material Engg. with Ph.D in any of the following specializations
	Assistant Professor / Associate Professor/ Professor	 Foundry Technology Extractive Metallurgy Corrosion Engineering Transport Phenomena Polymer Technology Functional Materials Bioceramics High Temperature Materials Advanced Materials and Processing Surface Engineering
6	CHEMICAL ENGINEERING	B.Tech in Chemical Engg. with Ph.D in any of the following specializations
	Assistant Professor / Associate Professor/ Professor	 Process Control Molecular Dynamic Simulation Rheology of Complex Fluids Catalysis Nanomaterials Process Intensification Data Analytics Machine Learning Drug Delivery Systems Petroleum Technologies
7	COMPUTER SCIENCE AND ENGINEERING	B.Tech in C.S.E. or IT with Ph.D in any of the following specializations
	Assistant Professor /Associate Professor/ Professor	 Machine Learning Software Engineering Algorithms Information Security Data Mining Bioinformatics Image Processing Computational Neuroscience Model Driven Frameworks Distributed Systems High Performance Computing

8	BIOTECHNOLOGY	B.Tech-Biotechnology OR
	Assistant Professor / Associate Professor/ Professor	M.Sc. in Life Sciences & M.Tech in Biotechnology/ Industrial Biotechnology / Biochemical Engg./Bioinformatics
		with any of the following specializations at Ph.D.:
		 Biotechnology Biochemical Engineering Bioinformatics Biosensors Disease Biology Downstream Processing Immunology Metabolic Engineering Microbial Metagenomics Molecular Cell Biology Stem Cell Technology Synthetic Biology Systems Biology Tissue Engineering
9	MATHEMATICS Assistant Professor /	Ph.D. in any of the following areas of specialization with PG in respective discipline
	Associate Professor/	Bio-Mechanics
	Professor	Statistics
		Operations Research Partial Differential Equations
		Partial Differential EquationsFluid Dynamics
		Computational Fluid Dynamics
		 Linear Algebra and Functional Analysis
		Cryptography
		Numerical Analysis
10	HUMANITIES AND SOCIAL SCIENCES (English)	Ph.D. in the following area of specialization with M.A. (English) or M.A./M.Sc.(Psychology) and B.Sc./B.A./ B.Com.
	Assistant Professor/ Associate Professor/ Professor	English Language TeachingIndustrial Psychology
11	PHYSICS	Ph.D. in any of the following areas of
	Assistant Professor / Associate Professor/ Professor	specialization with M.Sc.(Tech.) Engineering Physics OR M.Sc. (Applied Physics) OR M.Sc.(Physics) OR M.Tech.(With B.Tech in Engineering Physics).
		Electronics
		Photonics
		PhotonicsInstrumentationApplied Optics

12	CHEMISTRY Assistant Professor / Associate Professor / Professor	Ph.D. in any of the following areas of specialization with M.Sc. (Chemistry)Analytical ChemistryOrganic Chemistry
13	Assistant Professor/ Associate Professor /Professor	Ph.D. with any of the following specializations with M.Com. OR M.B.A. • Finance • Economics • Marketing • Commerce • Information Technology • Operations Management • Human Resource Management • Allied Areas of Business Administration OR
14	Training & Placement Professor	B.Tech. in any Branch of Engg. and MBA or equivalent PG degree in Management with any of the above specializations at Ph.D. Ph.D. in Engineering / Management with B.Tech. in any discipline Desirable: Experience in Training & Campus Placement Administration
