



**NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL,
WARANGAL –506 004, TELANGANA STATE, INDIA**

**SPECIALIZATIONS FOR FACULTY RECRUITMENT (Advt.No.Admin.01/2019)
FOR ASSISTANT PROFESSOR (GRADE-I & GRADE-II)/ASSOCIATE PROFESSOR /
PROFESSOR**

The Essential Minimum Academic Qualifications for any of Posts of Assistant Professor/Associate Professor /Professor are PhD and shall have First Class in the preceding Degrees.

Sl. No.	Department	Specialization
1	CIVIL ENGINEERING Assistant Professor / Associate Professor/ Professor	i. B-Tech and M.Tech or equivalent in allied areas with any of the following specializations at PhD <ul style="list-style-type: none"> • Structural Engineering • Water Resources Engineering • Geotechnical Engineering • Transportation Engineering • Environmental Engineering • Remote Sensing and GIS • Construction Technology & Management • Allied Areas of Civil Engineering <p align="center">OR</p> ii. Relevant UG, PG Degrees or equivalent and Ph.D. in Geology /Geo hydrology/ Engineering Geology/ any other allied area of specialization in Geology
2	ELECTRICAL ENGINEERING Assistant Professor / Associate Professor/ Professor	B.Tech and M.Tech or equivalent in allied areas with any of the following specializations at Ph.D. <ul style="list-style-type: none"> • Power Systems/Power Systems Engg. • Power Systems & Power Electronics • Power Electronics • Power Electronics & Drives • Electrical Machinery & Industrial Drives • Industrial Electronics • Applied Electronics • High Voltage Engineering • Control Systems • Instrumentation & Control Systems • Electronic Instrumentation • Signal Processing • Allied Areas of Electrical Engineering

3	MECHANICAL ENGINEERING Assistant Professor / Associate Professor/ Professor	B.Tech and M.Tech or equivalent in allied areas with any of the following specializations at Ph.D. <ul style="list-style-type: none"> • Design Engineering • Thermal Engineering • Manufacturing/Production Engineering • Automobile Engineering • Industrial Engineering • Allied Areas of Mechanical Engineering
4	ELECTRONICS AND COMMUNICATIONS ENGINEERING (ECE) Assistant Professor / Associate Professor/ Professor	B.Tech and M.Tech or equivalent in allied areas with any of the following specialization at Ph.D. <ul style="list-style-type: none"> • Communication Networks • RF and Microwaves • Wireless Communications • Signal Processing • Speech Recognition / Speech Processing • Image Processing • Electronic Instrumentation • Biomedical Signal Processing • Embedded System Design • Digital Signal Modeling • Device Modeling • VLSI System Design • Advanced Communications Systems • Allied Areas of Electronics
5	METALLURGICAL AND MATERIALS ENGINEERING (MME) Assistant Professor / Associate Professor/ Professor	B.Tech and M.Tech or equivalent in allied areas with any of the following specializations at Ph.D. <ul style="list-style-type: none"> • Process Metallurgy/Extractive Metallurgy • Non Destructive Testing • Computational Materials Science • Metal Joining • Metal Casting • Surface Engineering • Corrosion Engineering • Electronic and Magnetic Materials • Energy Materials • Advanced Materials • Powder Metallurgy • Texture of Materials • Deformation Behavior • Mechanical Metallurgy • Physical Metallurgy • Allied Areas of Metallurgical and Materials Engineering

6	CHEMICAL ENGINEERING Assistant Professor / Associate Professor/ Professor	B.Tech and M.Tech or equivalent in allied areas with any of the following specializations at Ph.D. <ul style="list-style-type: none"> • Transfer Operations • Chemical Reaction Engineering • Process Control • Novel Separation Techniques • Process Intensification • Energy Technologies • Modeling, Simulation and Optimization • Computational Fluid Dynamics (CFD) • Fuel Cells • Nanotechnology • Green Technologies • Polymer Engineering • Industrial Safety and Hazard Analysis • Molecular Simulation • Allied Areas of Chemical Engineering
7	COMPUTER SCIENCE AND ENGINEERING (CSE) Assistant Professor /Associate Professor/ Professor	i. M.Tech in CSE or equivalent and Ph.D. with any of the following specializations: <ul style="list-style-type: none"> • Algorithms • Theoretical Computer Science • System Software • Distributed Systems • Software Engineering • Information Security • Bio-informatics • Data Mining • Databases • Big Data Analytics • Data Science • Machine Learning • Image Processing • Human Computer Interface • Mobile Ad-hoc Networks • Internet of Things (IOT) • Wireless Sensor Networks • Allied areas of Computer Science and Engineering <p>OR</p> ii. B.Tech and M.Tech in CSE or IT or equivalent with Ph.D. in any area of Computer Science and Engineering.

8	BIOTECHNOLOGY Assistant Professor / Associate Professor/ Professor	B.Tech or equivalent in Biotechnology or Industrial Biotechnology or Chemical Engineering or M.Sc. or equivalent in Life Sciences and M.Tech or equivalent in Biotechnology with any of the following specializations at Ph.D.: <ul style="list-style-type: none"> • Biotechnology • Biochemical Engineering • Bioenergy • Biofuels • Bioinformatics • Biomaterials Technology • Biosensors • Downstream Processing • Environmental Biotechnology • Immunology • Metabolic Engineering • Modeling and Simulation of Bioprocesses • Molecular & Cell Biology • Nano biotechnology • Stem Cell Technology • Systems Biology • Tissue Engineering • Allied Area of Biotechnology
9	MATHEMATICS Assistant Professor / Associate Professor/ Professor	PG Degree or equivalent in relevant area and Ph.D. in any of the following areas of specialization: <ul style="list-style-type: none"> • Bio-Mechanics • Statistics • Operations Research • Partial Differential Equations • Fluid Dynamics • Computational Fluid Dynamics • Linear Algebra and Functional Analysis • Cryptography • Numerical Analysis • Fluid Mechanics
10	HUMANITIES AND SOCIAL SCIENCES Associate Professor (English)	First class with 60% or a CGPA of 6.5/10 in BA/B.Sc/B.Com First class with 60% or a CGPA of 6.5/10 in MA(English) Ph.D in English Language Teaching

	<p>Assistant Professor (English)</p>	<p>First class (60%) or equivalent CGPA in B.A./B.Sc Psychology</p> <p>First class (60%) or equivalent CGPA in M.A./M.Sc Psychology</p> <p>PhD in Psychology with specialization in Industrial Psychology.</p>
11	<p>PHYSICS</p> <p>Assistant Professor</p> <p>Associate Professor / Professor</p>	<p>Essential: M.Sc(Tech) Engineering Physics/M.Sc(Applied Physics)/M.Sc (Physics)/M.Tech(With B.Tech.in Engineering Physics) with the Specializations in Electronics/Instrumentation/Photonic/Applied Optics with Ph.D.</p> <p>Desirable: Experience of Teaching/Research in Electronics/Instrumentation/ Photonics at PG/Professional Degree Level.</p> <p>Essential: M.Sc(Tech) Engineering Physics/M.Sc(Applied Physics)/M.Sc (Physics)/M.Tech(With B.Tech.in Engineering Physics) with the Specializations in Materials Science/Electronics/Instrumentation/Photonic/Applied Optics with Ph.D.</p> <p>Desirable: Experience of Teaching/Research in Material Science/Electronics/Instrumentation/ Photonics at PG/Professional Degree Level.</p>
12	<p>CHEMISTRY</p> <p>Assistant Professor / Associate Professor/ Professor</p>	<p>PG Degree or equivalent in relevant area and Ph.D. in any of the following areas of specialization:</p> <ul style="list-style-type: none"> Analytical Chemistry Organic Chemistry

13	SCHOOL OF MANAGEMENT Associate Professor/Professor	<p>i. PG in Economics / Commerce / Management or equivalent with any of the following specializations at Ph.D. :</p> <ul style="list-style-type: none"> • Finance • Economics • Marketing • Commerce • Information Technology • Operations Management • Human Resource Management <p>OR</p> <p>ii. B.Tech in Branch of Engg. and MBA or equivalent PG degree in Management with any of the above specializations at Ph.D.</p>
	Assistant Professor	<p>Any Graduate with First Class at U. G. & P. G. in Management or equivalent with the following specialization at Ph.D</p> <ul style="list-style-type: none"> • Finance • Information Technology • Operations Management • Industrial Management <p>OR</p> <p>B.Tech in Branch of Engg. and MBA or equivalent PG degree in Management with any of the following specializations at Ph.D.</p>
14	Training & Placement Professor	<p>B.Tech and M.Tech or equivalent and PhD or B.Tech or equivalent and MBA or equivalent PG degree and Ph.D in Management</p> <p><u>Desirable:</u> Experience in Training & Campus Placement Administration</p>
