



राष्ट्रीय प्रौद्योगिकी संस्थान - आंध्र प्रदेश

NATIONAL INSTITUTE OF TECHNOLOGY ANDHRA PRADESH

SRI VASAVI ENGINEERING COLLEGE CAMPUS, PEDATADEPALLI
TADepALLIGUDEM – 534102, WEST GODAVARI DIST., ANDHRA PRADESH, INDIA.

Date: 27-06-2019

SPECIALIZATIONS FOR FACULTY RECRUITMENT (Adv. No. NITAP/TS/2019-20/001)

ASSISTANT PROFESSOR (GRADE-I & GRADE-II)/ASSOCIATE PROFESSOR

The Essential Minimum Academic Qualifications for Posts of Assistant Professor/Associate 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/B.E are also eligible and they should have obtained First Class at Bachelor's level.

Sl. No.	Department	Specialization
1	CIVIL ENGINEERING Assistant Professor / Associate Professor	B.Tech/B.E. in Civil Engineering with M. Tech and Ph. D. in any of the following specializations. <ul style="list-style-type: none"> • Structural Engineering • Water Resources Engineering • Geotechnical Engineering • Environmental Engineering • Remote Sensing and GIS • Construction Technology & Management • Transportation Engineering
2	ELECTRICAL ENGINEERING Assistant Professor / Associate Professor	B.Tech./B.E in Electrical Engg./Electrical & Electronics Engg., Electrical Power Engg. With M. Tech & Ph.D. in any of the following specializations. <ul style="list-style-type: none"> • Power Electronics • Power Systems Engineering • Power systems Electronics & Drives • Power & Energy Systems • Smart Grid Technologies • Embedded Systems • Signal Processing • Applied Electronics • Power & Control • Industrial Electronics • High voltage Engineering • Electrical Machines & Industrial Drives • Control Systems Engineering • Instrumentation/Instrumentation & Control Engineering • Renewable Sources • Electrical Vehicle Technology

3.	<p>MECHANICAL ENGINEERING</p> <p>Assistant Professor / Associate Professor</p>	<p>B.Tech/B.E in Mechanical Engg/ Automobile Engg / Production Engg / Industrial Engg. With M. Tech/ME & Ph. D in any of the following specializations.</p> <ul style="list-style-type: none"> • Manufacturing Engineering • Production Engineering • CAD/CAM and CIM • Robotics and Industrial Automation • Material testing and evaluation • Multiphysics simulation of Manufacturing Process • Additive Manufacturing Process • Micro and Nano Manufacturing • Thermal Engineering • Energy Systems • Jet Propulsion and Rocketry • Combustion • Automobile Engineering • Design Engineering • Dynamics and Control • Computational/Applied Mechanics • Geometric Modelling • Vibration and Acoustics • Product Design and realization • Engineering Design • Industrial Engineering
4.	<p>ELECTRONICS AND COMMUNICATIONS ENGINEERING</p> <p>Assistant Professor / Associate Professor</p>	<p>B.Tech/B.E in Electronics & Communication Engg. With M. Tech/M.E.& Ph. D in any of the following specializations</p> <ul style="list-style-type: none"> • Electronic Instrumentation • Biomedical Signal Processing • Embedded System Design • Digital Signal Modelling • Device Modelling • VLSI System Design • Advanced Communications Systems • Communication Networks • RF and Microwaves • Wireless Communications • Signal Processing • Speech Recognition / Speech Processing • Image processing
5.	<p>METALLURGICAL AND MATERIALS ENGINEERING Assistant Professor / Associate Professor</p>	<p>B.Tech/B.E in Metallurgy or Metallurgical Engg or Metallurgical & Material Engg. with M. Tech/ME Ph. D in any of the following specializations</p> <ul style="list-style-type: none"> • Foundry Technology • Extractive Metallurgy • Functional Materials • Bio ceramics • Bio-Materials • Materials Characterization • High Temperature Materials • Advanced Materials and Processing • Computational Metallurgy • Surface Engineering

		<ul style="list-style-type: none"> • Corrosion Engineering • Transport Phenomena • Polymer Technology
6.	<p>CHEMICAL ENGINEERING</p> <p>Assistant Professor / Associate Professor</p>	<p>B. Tech/B.E in Chemical Engg. M. Tech/ME & Ph. D in any of the following specializations</p> <ul style="list-style-type: none"> • Reaction Engineering and Catalysis • Molecular Simulation • Rheology of Complex Fluids, Polymeric materials • Catalysis • Computational Fluid Dynamics • Nanotechnology & Nanomaterials • Process Intensification • Process Modelling & Simulation • Drug Delivery Systems • Petroleum Technologies • Energy Engineering • Molecular Thermodynamics • Environmental Engineering • Process Control
7.	<p>COMPUTER SCIENCE AND ENGINEERING</p> <p>Assistant Professor /Associate Professor</p>	<p>B.Tech/B.E in C.S.E. or IT with M. Tech/M.E & Ph. D. in any of the following specializations</p> <ul style="list-style-type: none"> • Theoretical Computer Science • Computer Systems • Internet of Things • High Performance Computing • Cryptography and Cryptanalysis • Image Processing • Computational Neuroscience • Model Driven Frameworks • Distributed Systems • Machine Learning • Software Engineering • Algorithms • Information Security • Data Mining • Bioinformatics

8.	<p>BIOTECHNOLOGY Assistant Professor/ Associate Professor</p>	<p>B.Tech/B.E -Biotechnology OR</p> <p>M.Sc. in Life Sciences & M.Tech in Biotechnology/Industrial Biotechnology / Biochemical Engg./Bioinformatics, with any of the following specializations at Ph. D.</p> <ul style="list-style-type: none"> • Bioenergy • Biochemical Engineering • Bioinformatics • Biosensors/Bio nanotechnology • Bio Pharmaceuticals • Waste Water Treatment • Disease Biology • Downstream Processing • Immunology • Metabolic Engineering • Microbial Metagenomics • Molecular Cell Biology • Stem Cell Technology • Process Development and Scaleup • Synthetic Biology • Systems Biology Tissue Engineering
9.	<p>MATHEMATICS Assistant Professor/ Associate Professor</p>	<p>Ph.D. in any of the following areas of specialization with M.Sc.(Applied Mathematics) or M.Sc. (Mathematics) or Equivalent</p> <ul style="list-style-type: none"> • Fluid Dynamics • Linear Algebra and functional analysis • Cryptography • Numerical analysis • Bio-Mathematics • Statistics • Operations Research • Differential Equations
10.	<p>PHYSICS Assistant Professor/ Associate Professor</p>	<p>Ph.D. in the following areas of 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).</p> <ul style="list-style-type: none"> • Computational Physics • Semi-conductor Devices • High Energy Physics • Nanotechnology • Condensed Matter Physics • Electronics • Photonics • Instrumentation • Applied Optics • Material Science

11.	CHEMISTRY Assistant Professor/ Associate Professor	Ph.D. in any of the following areas of specialization with M.Sc. (Chemistry) <ul style="list-style-type: none">• Theoretical Chemistry• Analytical Chemistry• Organic Chemistry• Physical Chemistry• Materials Chemistry
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