



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



FACULTY RECRUITMENT Advt. No. Admin. 01/2022 GENERAL INSTRUCTIONS & INFORMATION

- Online applications are invited from Indian Nationals in the prescribed format for recruitment of faculty in various Departments of the Institute against the advertisement (**Advt. No. Admin. 01/2022**). *Detailed educational qualifications, experience and other criteria for selection shall be as per the Schedule "E" of the Statutes of NIT Warangal (Ref. Gazette of India No.651 dated July 24, 2017), the CEI (Reservation in Teachers' Cadre) Act, 2019 and clarifications received from MHRD vide F. No. 33-9/2011-TS.III dated 16th April, 2019 in the recruitment rules for faculty of NITs.*
- Vacancy position including reservation is given below:

Sl. No.	Name of the Post	Pay Level (7 th CPC)	Total No. of Posts	Reservation				
				UR	OBC	SC	ST	EWS
1.	Professor	14A	29	12	8	4	2	3
2.	Associate Professor	13A2	50	19	14	8	4	5
3.	Assistant Professor Grade-I (AGP-8000 in 6thCPC)	12	12	5	3	2	1	1
4.	Assistant Professor Grade-II (AGP-7000 in 6thCPC) (on contract)	11	8	4	2	1	0	1

3. Department-wise distribution of the vacancies is given below:

VACANCY POSITIONS OF FACULTY IN DIFFERENT DEPARTMENTS

Department	Professor (Pay_Level_14A) (AGP-10500)					Associate Professor (Pay_Level_13A2) (AGP-9500)					Assistant Professor Grade-I (Pay_Level_12) (AGP-8000)					Assistant Professor Grade-II (Pay_Level_11) (AGP-7000)					Total
	UR	OBC	SC	ST	EWS	UR	OBC	SC	ST	EWS	UR	OBC	SC	ST	EWS	UR	OBC	SC	ST	EWS	
Civil Engg.	1	1	0	1	0	5	3	1	1	1	1	0	0	0	0	0	0	0	0	0	15
Electrical Engg.	0	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	5
Mechanical Engg.	0	0	0	0	0	1	0	1	0	1	0	1	1	0	0	1	1	1	0	0	8
Electronics & Communication Engg.	2	2	1	0	1	1	1	0	0	0	1	1	0	1	0	1	0	0	0	0	12
Metallurgical and Materials Engg.	1	0	1	0	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	7
Chemical Engg.	1	1	0	0	0	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	6
Computer Science and Engg.	2	2	0	1	1	4	4	2	1	2	2	0	1	0	1	2	1	0	0	1	27
Biotechnology	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mathematics	0	0	0	0	0	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	4
Physics	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Chemistry	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Humanities & Social Sciences	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
School of Management	1	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	5
Training & Placement	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	12	8	4	2	3	19	14	8	4	5	5	3	2	1	1	4	2	1	0	1	99

Note: Reservations of the posts have been made in compliance with the provisions of the *CEI (Reservation in Teachers' Cadre) Act, 2019* and the guidelines issued by the Ministry of Education, Government of India from time to time.

1. Essential Qualifications and Specializations required for the above positions:

- The Essential Minimum Academic Qualification for the posts of Professor / Associate Professor/ Assistant Professor is Ph.D In the 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 Ph.D degree directly after B.Tech are also eligible and they should have obtained First Class at Bachelor’s level.
- Department-wise Specializations:

S.No.	Department	Specialization
1.	Civil Engineering	<p>B.Tech. in Civil Engg./ Agriculture Engg /Architecture/ Planning/ Geo informatics with Ph.D in any of the following specializations.</p> <p>Structural Engineering: Structural Dynamics and Earthquake Engineering, Structural and System Reliability, Structural Health Monitoring, Stochastic/ Computational Structural Mechanics, Industrial Structures/Pre-Engineered Construction, Fracture Mechanics.</p> <p>Transportation Engineering: Travel Demand Modelling, Transportation Network Analysis, Public Transportation Systems, Freight Transportation, Geospatial Information Technologies in Transportation.</p> <p>Geotechnical Engineering: Offshore Geotechnics with Good Analytical Background, Geophysical Engineering.</p> <p>Construction Technology and Management: Infrastructure and Construction Management, Automation in construction, Building Information Modelling and Integrated Project Delivery.</p> <p>Water Resources Engineering: Subsurface Hydrology, Hydrologic Compound Extremes, Climate Resilient Water Resources Systems, Computational Hydraulics and Hydrology,Water-Agriculture-Climate Change Nexus, Stochastic Hydrology.</p> <p>Environmental Engineering: Environmental Management, Industrial waste management, Environmental modelling.</p> <p>Remote Sensing and GIS: Geomatics, Geoinformatics, Spatial Technology, Image Processing.</p>

2.	Electrical Engineering	<p>B.Tech./ B.E in Electrical Engg./Electrical & Electronics Engg./Electrical Power Engg., with M.Tech/M.E and Ph.D in any of the following specialization.</p> <ul style="list-style-type: none"> • Power Systems Engineering • Power Electronics & Drives / Power Electronics • Communication engineering • Electrical Power & Energy systems • Electrical Machines and Industrial drives • Control Systems Engineering/ Digital Control Systems/Power & Control • Instrumentation/Instrumentation & Control Engineering • Electrical engineering Automaton • Artificial Intelligence • Computer Science and Engineering. • Embedded Systems • Real Time Control of Electrical Systems • Digital Twin Technologies. • Electric Vehicles Technology/Hybrid Electric Vehicles • Renewable Energy Systems • ANN and Fuzzy Logic based Control of Electrical Systems. • Electrical Energy Markets • Smart Grid Technologies • Power system Protection/ Digital Protection of Power System. • Signal Processing • Applied Electronics/ Industrial Electronics • High Voltage Engineering.
3.	Mechanical Engineering	<p>B. Tech. / B.E. in Mechanical Engineering OR Automobile Engineering OR Production Engineering OR Industrial Engineering and M. Tech / ME / M.S. in Thermal Engineering OR Heat power Engineering OR Production Engineering OR CAD & CAM OR Industrial Engineering OR Machine Design OR Mechanical Systems Design OR Hydrology with Ph.D in any of the following specializations:</p> <ul style="list-style-type: none"> • Automotive Safety • Automotive Electronics • Automotive Body Design • Automotive Component Design • Hybrid Vehicles • Autonomous Vehicles

		<ul style="list-style-type: none"> • Engine Management • Solar Cells • Aerospace Engineering • Energy Engineering /Energy Management • Cryogenics • Renewable Energy sources • Noise-Vibration and Harshness • Fuel cells • Artificial Intelligence in energy systems • Additive Manufacturing • Friction stir Processing • Mechatronics & MEMS • Advanced Manufacturing Processes • Industrial Automation & Robotics • Smart Manufacturing • Manufacturing Simulation • Advanced Material Processing • Dynamics & Controls • Noise & Acoustics • Computational Mechanics • Product Design • Rotor Dynamics • Nonlinear Dynamics • Bio-Mechanics/ Nano mechanics • Industrial Engg./Production Engg./Computer aided Manufacturing • AI & ML in Manufacturing • Automation and Control Systems • Information Management and Engineering • Tribology • Geometric Modelling for CAD • Design (Structural) Optimization • Thermal Engineering/Heat transfer/Fluid mechanics • Refrigeration &Airconditioning • Metal forming
4.	Electronics and Communication Engineering (ECE)	<p>B.Tech in Electronics & Communication Engineering / Electronics & Telecommunication Engineering and M. Tech/ M.E. preferably from ECE Departments with Ph.D in any of the following specializations</p> <ul style="list-style-type: none"> • AI/ML/DL • Embedded systems/IoT • Speech /image/video//biomedical signal processing

		<ul style="list-style-type: none"> • Wireless/optical Communications • Computer/Communication Networks • RF and Microwaves • Computer vision • VLSI Architectures • Cryptography & Network security • Electronic Instrumentation • Analog and Mixed Signal Design • Device Modelling • VLSI system design/Testing
5.	Metallurgical and Materials Engineering	<p>B.E./B.Tech in Metallurgy or Metallurgical Engg. or Materials Engg. or Metallurgical & Materials Engg. with M.E/M. Tech/MS and Ph.D in any of the following specializations.</p> <ul style="list-style-type: none"> • Extractive Metallurgy, Process metallurgy, Transport phenomena, Mineral Processing • Computational Materials Science, Process Modelling and Simulation in Metallurgy and Materials Engg. • Welding technology, Additive Manufacturing, Microwave processing, Alloy Development, Non equilibrium processing, Surface coatings & engineering, Advanced Materials processing. • Advanced Materials, High Entropy Alloys, Advanced High Strength Steels, • Biomaterials, Functional Materials, Energy Materials, High temperature Materials, • Tribology, Shape Memory Alloys, Magnetic materials, Energy materials. • Non-Destructive Testing & Evaluation, Advanced Materials characterization. • Foundry Metallurgy, Solidification and Casting, Powder metallurgy, Physical Metallurgy, Crystallographic texture, Mechanical Behavior of Materials, Damping of materials, Nano materials and Technology, Polymer Technology, Corrosion Engineering.
6.	Chemical Engineering	<p>B.Tech in Chemical Engg., with M. Tech/ M.E. preferably from Chemical Departments with Ph.D in any of the following specializations</p> <ul style="list-style-type: none"> • Process Control • New materials • Artificial Intelligence • Quantum mechanics • Colloidal and interfacial science • Biomedical engineering • Petroleum refining and Petrochemicals • Process intensification

		<ul style="list-style-type: none"> • Sustainable energy technologies • Circular economy • Additive Manufacturing
7.	Computer Science and Engineering (CSE)	<p>B.Tech. in C.S.E. or IT and M.Tech in C.S.E. or IT departments with Ph.D in any of the following specializations</p> <ul style="list-style-type: none"> • Machine Learning • Software Engineering • Algorithms • Information Security • Data Mining • Bioinformatics • Image Processing • Computational Neuroscience • Model Driven Frameworks • Distributed Systems • Computer Networks • High Performance Computing
8.	Biotechnology	<p>B. Tech. Biotechnology / Chemical Engineering / Industrial Biotechnology / M.Sc. in Life Sciences & M. Tech. / M.S. by Research in Biotechnology / Industrial Biotechnology / Biochemical Engineering / Bioinformatics with any of the following specializations at Ph.D.:</p> <ul style="list-style-type: none"> • Agriculture Biotechnology • Biochemical Engineering • Biofuels • Bioinformatics • Biomass, Bio-energy & Bio-refinery • Biomaterial Technology • Biomedical Engineering • Bioprocess Engineering • Biosensors • Bio-separations Technology • Cancer Biology • Cancer cell signalling • Environmental Biotechnology • Food Biotechnology • High Performance Computing

		<ul style="list-style-type: none"> • Immunology • Infectious Biology & Molecular Parasitology • Metabolic Engineering • Meta-genomics • Microbial Biotechnology • Modelling, Simulation & Optimization of Bioprocesses • Molecular cell biology • Neuroscience • Plant Biotechnology • Protein Biochemistry • Stem Cell Technology • Structural Biology • Synthetic Biology • Systems Biology • Tissue Engineering • Virology
9.	Mathematics	<p>B.Sc. or equivalent with Mathematics as one of the subjects, M.Sc. in Mathematics/ Applied Mathematics/ Statistics/ Mathematics & Scientific Computing/ Operations Research with Ph.D. in any of the following areas of specialization.</p> <ul style="list-style-type: none"> • Fluid Mechanics • Computational Fluid Dynamics • Cryptography • Partial Differential Equations • Hydrodynamic Stability • Operations Research
10.	Physics	<p>Ph. D in Physics with M. Sc/M.Sc.Tech. in Physics/EngineeringPhysics/Applied Physics with specialization in Electronics/Instrumentation/Materials Science/Photonics.</p>
11.	Chemistry	<p>Ph.D in any of the following areas of specialization with M.Sc (Chemistry)- Organic/Inorganic/Physical/Analytical Chemistry</p> <ul style="list-style-type: none"> • Medicinal Chemistry, • Bioorganic Chemistry, • Solid State Chemistry • Instrumental Techniques • Organometallic Chemistry.

12.	Humanities and Social Sciences	B.A./B.Sc./ B.Com., and Full time PG in M.A.(English Literature/ELT/Linguistics) or M.A.(Psychology/Sociology), or M.A. German, or M.A. French with a Ph.D. in the following area of specialization <ul style="list-style-type: none"> • English Language Teaching • English Literature • Linguistics • Sociology • Psychology • German (Humanities-Foreign Languages) • French (Humanities-Foreign Languages)
13.	School of management (SOM)	B.Tech. in any Branch of Engineering with fulltime MBA and Ph.D. in any of the following specializations <ul style="list-style-type: none"> • Business Analytics • Economics/Econometrics • Finance and Accounting • Entrepreneurship/ Innovation • Marketing • Operations Management • Strategic Management
14.	Centre for Career Planning and Development (CCPD)	Ph.D. in Engineering / Management with B.Tech. in any branch of engineering. Desirable: Experience in Training & Campus Placement activities /Administration

Note: *The serving faculty members of NIT Warangal may apply for the eligible positions, based on their present qualifications and specializations.*

2. In case the vacancies reserved for EWS are not filled up due to non-availability of suitable/ eligible candidate(s) belonging to EWS category such vacancies shall be filled by UR candidates.
3. Departments not having any vacancy at any higher Pay Level, movement to higher Pay Level shall be carried out as per prescribed selection process but it will be restricted to only serving faculty members of NIT Warangal in the respective Department. [As prescribed in note 1, point no. 5 of Schedule "E" of NIT Statutes (Amended 2017) (Ref. Gazette of India No. 651, dated July 24, 2017)].
4. Candidates are requested to go through the details of posts and instructions carefully before applying. Date of opening of online portal is 21.2.2022 and date of submission of online applications is from **26.2.2022 to 17.03.2022**.

5. Candidates have to apply online duly uploading all certificates/self-attested documents with Photograph and scanned signature.
6. Non-refundable Processing Fee of Rs. 1000/- for General, OBC and EWS candidates, and Rs. 500/- for the SC/ST/PWD should be paid online through the application portal by Net Banking/Credit/Debit Card as per the details given in the payment link. Indian Nationals applying from abroad can pay their application fee in US \$25 per post (for all categories) online through the application portal. Serving faculty of NIT Warangal need not pay processing fee.
7. Separate online application must be submitted for each cadre/grade along with prescribed fee. *No need to send the hard copy of filled-in application to the Institute.*
8. The cutoff date for determining eligibility of candidates is the closing date for receipt of application forms (i.e. 17.03.2022).
9. The number of vacancies advertised is merely an indication of existing vacancies.
10. Upper age limit for candidates applying for Assistant Professor Grade II with Pay level 11 is 35 years, Assistant Professor Gr. I is 40 years, Associate Professor is 45 years and Professor is 50 years. Age relaxation will be applicable as under, subject to the condition that including the age relaxation, the age of the applicant is not more than 60 years.
 - a) SC/ST - 5 years, b) OBC- 3 years c) PWD-10 years and d) Government servants- 5 years as per the Govt. of India orders.
11. Mere fulfillment of minimum qualifications and experience does not entitle any candidate to receive call letter for selection.
12. To limit applicants to a reasonable number, the Institute has the right to set higher limit based on Institutional Ranking and Individual credit points. The areas of specialization and the post/level applied for will be considered for shortlisting, giving due consideration to the specific requirements of the Departments. Guidelines received from the Ministry of Education from time to time for this purpose will be followed. The decision of the Institute related to all matters pertaining to shortlisting. Selection process and final selection shall be final and binding on the applicants.
13. Priority for Institutional Ranking for shortlisting with regard to each qualifying degree shall be as under:
 - i) All Three Degrees (UG / PG / Ph.D) from IIT/NIT/CFTI/CFI/IIM
 - ii) Any Two Degrees (UG / PG / Ph.D) from IIT/NIT/CFTI/CFI/IIM
 - iii) UG Degree from IIT/NIT/CFTI/CFI
 - iv) PG Degree from IIT/NIT/CFTI/CFI/IIM
 - v) Ph.D from IIT/NIT/CFTI/CFI/IIM
 - vi) Ph.D/PG/UG Degrees from other reputed Universities with NIRF-2021 Ranking upto 100 in overall and 50 in Engineering or Sciences.

Note:

- a. Candidates who have obtained Degree(s) from reputed Institute(s) abroad which are in QS/THE World Ranking (2021) up to 500 will be considered as equivalent to CFTIs/CFIs.
 - b. Post-Doctoral Fellows (PDFs) from the above Institutions in the same order of priority will be desirable.
 - c. For the posts in Management, the candidate should have done B.Tech/B.E from any Institute/University of repute and Post-Graduation in Management from IIMs or other Management Institutions ranked by NIRF up to 50 for any two years, including 2021.
 - d. For the posts in Sciences/Humanities/Management, the qualifications at PG level will be prioritized on the above basis.
14. Selection will be done in two phases. In the first phase the shortlisted candidates are required to appear for a written test and/or presentation on teaching and research in the area of their specialization. The written test will be conducted based on the respective PG specialization. The presentation is open to faculty and research scholars of the Department. The second phase involves interview by the Selection Committee. The merit list will be prepared based on the marks obtained in the written test and/or presentation and interview, as per the weightage decided by the Selection Committee.
 15. The list of shortlisted candidates for selection process (written test and/or presentation and interview) will be displayed on the website of the Institute. Candidates are advised to visit the website <https://www.nitw.ac.in> regularly. No separate call letters will be sent. Email communication will only be sent.
 16. Higher starting pay may be offered to deserving candidates on the recommendation of the Selection Committee and the approval of the Board of Governors. Protection of pay to the serving faculty in Government Organizations will be applicable as per Government of India Rules.
 17. Candidates serving in Government / Semi- Government / PSUs / Universities / Educational Institutions should furnish a NO OBJECTION CERTIFICATE from the competent authority at the time of interview.
 18. No TA/DA will be paid for attending interview. However, applicants belonging to SC/ST/PWD, will be paid travel fare equivalent to the Sleeper Class from their present place to NIT, Warangal and back, as per rules, for attending interview, if otherwise not employed and have not availed any other travelling concessions,
 19. For SC/ST/OBC (Non-Creamy Layer) candidates, the application form should be submitted with a copy of the relevant caste/community certificate. OBC candidates should produce valid Non - Creamy Layer certificate issued on or after 1.4.2021 by the competent authority empowered for the purpose. If caste/community certificate or non-creamy layer is not attached, the

application will be considered in the UR category (without age relaxation). Candidates claiming reservation under Economically Weaker Section (EWS) category are required to submit necessary documents as per GOI OM No. 36039/1/2019- Esst(Res) dated 31/01/2019. Also, the EWS certificate issued by competent authority should have been issued on or after 1.4.2021.

20. The persons with disability (PWD) with 40% and above are required to produce medical certificate in the prescribed form issued by the competent medical authorities for the purpose of employment. The selected candidates will be subjected to medical examination by the Medical Board and if the claim of disability is found to be incorrect, their candidature will be summarily rejected.
21. Original documents and ID proof (Aadhaar /Passport/Voter ID/PAN Card) will have to be produced at the time of selection, else the candidate will not be allowed to attend the selection process.
22. Selection Committee may offer lower faculty position, than the post applied for.
23. The Institute reserves the right to modify / defer or cancel the advertisement/ recruitment/selection process at any stage of processing without assigning any reasons.
24. Legal disputes, if any, with National Institute of Technology, Warangal, will be restricted within the jurisdiction of Hon'ble High Court of Telangana at Hyderabad only.
25. The candidate is responsible for the correctness of the information provided in the application. If any information given in the application is found to be incorrect / false, the candidate is liable for legal action in addition to the Departmental action.
26. No correspondence will be entertained with the candidates, who are not called for selection process.
27. Candidates working as Engineers/Scientific Officers/Scientists in Central Government Research Organizations or reputed Industrial/R&D organizations meeting all the eligibility conditions can also apply. Reputed Organizations for this purpose mean the Public Limited Companies, as defined in the Companies Act, 2013. They need to provide the proof of their credentials certified through a competent authority.
28. To avoid in-breeding, candidates who have obtained the Ph.D from NIT, Warangal will not be considered for recruitment, unless there is a three years of outside experience after obtaining Ph.D. However, condition is not applicable to candidates who are already regular faculty of NIT Warangal and have obtained Ph.D. from the Institute.
29. Canvassing in any form will result in disqualification of candidature.

Incentives for Faculty Members appointed at NITWarangal:

In addition to normal pay and allowances as applicable to the central government employees stationed at Hanumakonda/Warangal, following additional incentives are also available for faculty members.

- a) Cumulative Professional Development Allowance (CPDA), as approved by the Ministry.
- b) Research Seed Money for pursuing research interests during initial three years, for the new entrants.
- c) Reimbursement of Children Education Allowance as per Central Government Rules
- d) Reimbursement of Medical expenses including referral to empaneled specialized hospitals for OP/IP for self and dependent family members.
- e) Suitable residential accommodation in the campus, subject to availability.
- f) Leave Travel Concession as per Central Government Rules.
- g) The recruited faculty will be covered under National Pension Scheme (NPS).

Self-attested copies of the following Documents/ Certificates/Degrees are required to be uploaded on the recruitment portal while filling the Application Form:

1. Age Proof: Matriculation/10th Standard/ Secondary or equivalent certificate indicating date of birth, or mark sheet of Matriculation/10th Standard or equivalent issued by Central/State Board indicating date of Birth. Where date of birth is not available in certificate/mark sheets, issued by the concerned Educational Boards then School leaving certificate indicating date of Birth will be considered.
2. Higher Secondary / Class XII (or equivalent) board marks sheet.
3. Preceding Degrees: Degree certificate of UG and PG along with mark sheets pertaining to all the academic years as proof of educational qualification claimed. In the absence of a particular Degree certificate, mark sheets of the Degree program will be accepted.
4. Essential qualification: Ph.D. Degree or Provisional Certificate or Notification of Ph. D. award issued by the authorized signatory (not the Mentor/Supervisor/Head of the Department).
5. Caste/Tribe/Community certificate: The relevant Caste/Tribe/Community certificate issued by competent authority.
6. The Disability / Medical certificate issued by competent medical authority.
7. Photo identity card [issued by govt. agency/last attended Institution/University]
8. Experience Certificate(s): Experience Certificate(s) from the Head(s) of Organization(s) for the entire experience claimed, clearly mentioning the duration of employment (date, month & year) indicating the Pay Level, Grade Pay and basic pay. The certificate(s) should also mention the nature of duties performed/experience obtained in the post(s) with duration(s).
9. International / National Post-Doctoral Fellowships experience certificate offered by National Agencies of respective country and/or Post-Doctoral Fellowships offered by Institutions which are in QS / THE World Ranking up to 500. The certificate(s) should also mention the nature of duties performed/experience & fellowship amount obtained during Post-Doctoral Fellowships with duration(s).

10. Credit Point Calculation Sheets:

Part I: CREDIT POINT SUMMARY SHEET.

Part II CREDIT POINT DETAILED SHEET.

Part III: CREDIT POINT VERIFICATION SHEET.

Credit Point Calculation Sheets [Part I, Part II &Part III] are to be filled by the applicant for the post applied.

11. Any other relevant documents in support of the entries filled in application form.

FEBRUARY 21, 2022

REGISTRAR
NIT WARANGAL