NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
Institution Deemed to be University under Distinct Category
A Centrally Funded Technical Institute
Ministry of Education, Govt. of India, Taramani, Chennai – 600 113.

Advt. No. 06/2024-25

Recruitment of Faculty Positions

1. **Name of the post**   : **Professor**
2. **Number of Post**   : **Branch wise Details are given below with reservation**

Name of the Post Pay Level – 14 (Rs.144200 – 211800)	No. of Post (s)	Reservation					
		SC	ST	OBC	EWS	UR	PwD UR
Professor of Mechanical Engineering	01	0	0	0	0	0	1*
Professor of Computer Science & Engineering	02	0	0	2	0	0	0
Professor of Electrical Engineering	01	1	0	0	0	0	0
Professor of Educational Management and Applied Science	01	0	0	0	1	0	0
Professor of Civil Engineering	02	0	0	0	0	2	0
Professor of Rural and Entrepreneurship Development	01	0	1	0	0	0	0
Professor of Curriculum Development, Planning and Coordination	01	1	0	0	0	0	0
Total	**09**	**2**	**1**	**2**	**1**	**2**	**1**

For Details, Visit the Institute website: https://www.nitttrc.ac.in

*Note: Reservation for PwD – Visual Impairment

Note: Candidate shall apply for the post of Professor through Direct Recruitment / On Deputation basis/ / Professor of Practice

The selection of Professor on Deputation Basis/ Professor of Practice shall be from the following domain: (a) Computer Science (AI) (b) Drone / Unmanned Aerial Vehicle; (c) Electronics Engineering; (d) Mechanical Engineering; (e) Media / VR / AR; and (f) Electrical Engineering

Professor on Deputation: The scale of Professor level – Level 14 will be paid to the faculty on deputation.

Professor of Practice: Part-time/Full-time engagement: Consolidated amount, mutually agreed between the institution and expert. Gross salary ranges from Rs. 2,50,000/- to 3,00,000/- per month.

3.   **Age**   : **Not exceeding 48 years**

4.   **Qualifications and Experience : Branch-wise given below:**

If a Class/ Division is not awarded, minimum of 60% marks in aggregate shall be considered as equivalent to First Class/ Division. If a Grade Point System of 10.0 scale is adopted, the CGPA will be converted into its equivalent percentage of marks as indicated below:
6.25 = 55%, 6.75 = 60%, 7.25 = 65%, 7.75 = 70% and 8.25 = 75%.

PROFESSOR OF MECHANICAL ENGINEERING

A. Essential Qualification:

(a)   (i) B.E./ B.Tech. degree in Mechanical Engineering
        (ii) M.E./ M.Tech. degree in Production/ Design/Automobile/ Thermal Engineering/ CIM/ CAD / CAM/ Mechatronics/ Energy Engineering
        (iii) Ph.D. in the relevant field.
        (iv) First class or equivalent either at Bachelor's or Master's level.

Note: Relevance shall be decided by the major disciplines as notified by AICTE vide its Gazette notification dated 28th April 2017.

AND

(b) Minimum of 10 years' experience in teaching/ research/ industry, out of which at least 3 years shall be at a post equivalent to that of an Associate Professor or at the pay level of 13A1

AND

(c) At least 6 research publications at the level of Associate Professor in SCI journals/UGC/AICTE approved list of journals and at least 2 successful Ph.D. guided as Supervisor/Co-supervisor till the date of eligibility of promotion
                OR
At least 10 research publications at the level of Associate Professor in SCI journals/UGC/AICTE approved list of journals till the date of eligibility of promotion

Note: Candidates who have done Ph.D. after the Bachelor's Degree from Institutions of National importance (i.e. IITs/IISc/NITs etc.) with GATE/ GPAT/ CEED shall be eligiblefor the post provided degree of Ph.D. awarded is in relevant discipline by a recognised University following the process of registration, course work etc. as prescribed by UGC.Further, candidate should have obtained at least first class at Bachelor's level.

B. Desirable Qualification:

- Experience in conducting training programmes for the faculty members/ students in the emerging areas of Mechanical Engineering and educational technologies.

- Expertise in Instructional/ Learning Resources Development, MOOC and online learning resources.

- Expertise in curriculum design, development and revision for the Mechanical Engineering subjects.

- Expertise in offering newer pedagogical or Heutagogical strategies for the faculty members.

- Teaching, research, industrial and/or professional experience in a reputed organization.

- Published work, such as research papers, patents obtained, books, and/or technical reports.

- Experience of guiding the project work/dissertation of PG/ Research (Ph.D.) scholars or supervising R & D projects in industry.

- Handling National/ International Projects.

- Integration of Information Technology in the specific area of specialization.

PROFESSOR OF COMPUTER SCIENCE & ENGINEERING

A. **Essential Qualification**:

   (a) (i) B.E./ B.Tech. degree in Computer Science and Engineering/
         Information Technology.
       (ii) M.E./ M.Tech. degree in Computer Science and Engineering/
         Information Technology / Software Engineering /
         Information Security / Cyber Security/ Data Science/
         Artificial Intelligence& Machine Learning.
       (iii) Ph.D. in the relevant field.
       (iv) First class or equivalent either at Bachelor's or Master's level.

Note: Relevance shall be decided by the major disciplines as notified by AICTE vide its Gazette notification dated 28th April 2017.

AND

   (b) Minimum of 10 years' experience in teaching/ research/ industry, out of which at least 3 years shall be at a post equivalent to that of an Associate Professor or at the pay level of 13A1

AND

   (c) At least 6 research publications at the level of Associate Professor in SCI journals/UGC/AICTE approved list of journals and at least 2 successful Ph.D. guided as Supervisor/Co-supervisor till the date of eligibility of promotion
   OR
   At least 10 research publications at the level of Associate Professor in SCI journals/UGC/AICTE approved list of journals till the date of eligibility of promotion

Note: Candidates who have done Ph.D. after the Bachelor's Degree from Institutions of National importance (i.e. IITs/IISc/NITs etc.) with GATE/ GPAT/ CEED shall be eligible for the post provided degree of Ph.D. awarded is in relevant discipline by a recognised University following the process of registration, course work etc. as prescribed by UGC.Further, candidate should have obtained at least first class at Bachelor's level.

B. **Desirable Qualification:**

- Research expertise in any one of the following areas: Software Systems, Information Security, Artificial Intelligence and Deep Learning, Big Data Analytics, Blockchain Technologies.
- Experience in conducting training programmes for the faculty members in the emerging areas of CSE / IT and educational technologies.

- Expertise in Instructional / Learning Resources Development, MOOC and online learning resources.

- Expertise in curriculum design, development and revision for the CSE / IT domain.

- Expertise in offering newer pedagogical or Heutagogical strategies for the faculty members.

- Teaching, research, industrial and / or professional experience in a reputed organization.

- Published work, such as research papers, patents obtained, books, and/or technical reports.

- Handling National/International Projects.

- Integration of Information Technology in the area of specialisation.

- Offering PG Diploma Courses in the emerging areas of IT.

PROFESSOR OF ELECTRICAL ENGINEERING

A. Essential Qualification:

    (a) (i) B.E./ B.Tech. degree in Electrical & Electronics Engineering
       (ii) M.E./ M.Tech. degree in Embedded systems/ Power systems Engineering/ Control and Instrumentation/ High voltage Engineering/ Power Electronics Drives.
       (iii) Ph.D. in the relevant field.
       (iv) First class or equivalent either at Bachelor's or Master's level.

Note: Relevance shall be decided by the major disciplines as notified by AICTE vide its Gazette notification dated 28th April 2017.

AND

    (b) Minimum of 10 years' experience in teaching/ research/ industry, out of which at least 3 years shall be at a post equivalent to that of an Associate Professor or at the pay level of 13A1

AND

    (c) At least 6 research publications at the level of Associate Professor in SCI journals/UGC/AICTE approved list of journals and at least 2 successful Ph.D. guided as Supervisor/Co-supervisor till the date of eligibility of promotion
                    OR
    At least 10 research publications at the level of Associate Professor in SCI journals/UGC/AICTE approved list of journals till the date of eligibility of promotion

Note: Candidates who have done Ph.D. after the Bachelor's Degree from Institutions of National importance (i.e. IITs/IISc/NITs etc.) with GATE/ GPAT/ CEED shall be eligible for the post provided degree of Ph.D. awarded is in relevant discipline by a recognised University following the process of registration, course work etc. as prescribed by UGC.Further, candidate should have obtained at least first class at Bachelor's level.

B. Desirable Qualification:
- Research expertise in any one of the following areas: Smart Grid/ Internet of Things/ System on Chip/ Electric Vehicle Technology and Wireless Power Transfer/ Renewable Energy, Energy Storage and Batteries/ Sensors and Actuators/ Modern Control techniques/Special Electrical Machines.

- Experience in conducting training programme for the faculty members / students in the emerging areas of Electrical and Electronics Engineering and educational technologies.

- Expertise in Instructional / Learning Resources Development, MOOC and onlinelearning resources.

- Expertise in curriculum design, development and revision for the Electrical Engineering subjects.

- Expertise in offering newer pedagogical or Heutagogical strategies for the facultymembers.

- Teaching, research, industrial and/or professional experience in a reputed organization.

- Published work, such as research papers, patents obtained, books, and/or technical reports.

- Experience of guiding the project work/dissertation of PG/ Research (Ph.D.) scholarsor supervising R & D projects in industry.

- Handling National/ International Projects.

- Integration of Information Technology in the specific area of specialization.

PROFESSOR OF EDUCATIONAL MANAGEMENT AND APPLIED SCIENCE

A. Essential Qualification:

    (a)   (i) Bachelor's degree in Science or Management or Engineering
            (ii) Master's degree in Management.
            (iii) Ph.D. in Management.
            (iv) First class or equivalent at Bachelor's and Master's level.

Note: Relevance shall be decided by the major disciplines as notified by AICTE vide its Gazette notification dated 28th April 2017.

AND

(b) Minimum of 10 years' experience in teaching/ research/ industry, out of which at least 3 years shall be at a post equivalent to that of an Associate Professor or at the pay level of 13A1

AND

(c) At least 6 research publications at the level of Associate Professor in SCI journals/UGC/AICTE approved list of journals and at least 2 successful Ph.D. guided as Supervisor/Co-supervisor till the date of eligibility of promotion

OR

At least 10 research publications at the level of Associate Professor in SCI journals/UGC/AICTE approved list of journals till the date of eligibility of promotion

Note: Candidates who have done Ph.D. after the Bachelor's Degree from Institutions of National importance (i.e. IITs/IISc/NITs etc.) with GATE/ GPAT/ CEED shall be eligible for the post provided degree of Ph.D. awarded is in relevant discipline by a recognised University following the process of registration, course work etc. as prescribed by UGC.Further, candidate should have obtained at least first class at Bachelor's level.

B. Desirable Qualification:

- Conducting training programmes for the faculty members and students in the emerging areas of Management/ Employee Counselling / Academic Leadership.

- Expertise in curriculum design, development and revision for management courses.

- Expertise in developing and Offering MOOCs to faculty members, research scholars and students.

- Teaching, research, industrial and/or professional experience in a reputed organization.

- Published work, such as research papers, patents obtained, books, and/or technical reports in Management.
- Experience of guiding the project work/dissertation of PG/ Research (Ph.D.) scholars or supervising in the Management field.
- Integration of Information Technology in the specific area of specialization.
- Experience in Instructional Design, Educational Video Production, Immersive Technology and Extended Reality.

PROFESSOR OF CIVIL ENGINEERING

A. Essential Qualification:

    (a)   (i) B.E./ B.Tech. degree in Civil Engineering

            (ii) M.E./ M.Tech. degree in Structural/ Geotechnical/ Water Resources/ Remote Sensing/ Transportation/ Infrastructural Engineering & Management/ Environmental Engineering

            (iii) Ph.D. in the relevant field.

            (iv) First class or equivalent either at Bachelor's or Master's level.

Note: Relevance shall be decided by the major disciplines as notified by AICTE vide its Gazette notification dated 28th April 2017.

AND

(b) Minimum of 10 years' experience in teaching/ research/ industry, out of which at least 3 years shall be at a post equivalent to that of an Associate Professor or at the pay level of 13A1

AND

(c) At least 6 research publications at the level of Associate Professor in SCI journals/UGC/AICTE approved list of journals and at least 2 successful Ph.D. guided as Supervisor/Co-supervisor till the date of eligibility of promotion

                             OR

At least 10 research publications at the level of Associate Professor in SCI journals/UGC/AICTE approved list of journals till the date of eligibility of promotion

Note: Candidates who have done Ph.D. after the Bachelor's Degree from Institutions of National importance (i.e. IITs/IISc/NITs etc.) with GATE/ GPAT/ CEED shall be eligiblefor the post provided degree of Ph.D. awarded is in relevant discipline by a recognised University following the process of registration, course work etc. as prescribed by UGC. Further, candidate should have obtained at least first class at Bachelor's level.

B. Desirable Qualification:

- Experience in conducting training programmes for the faculty members/ students in the emerging areas of Civil Engineering and educational technologies.

- Expertise in Instructional/ Learning Resources Development, MOOC and online learning resources.

- Expertise in curriculum design, development and revision for the Civil Engineering subjects.

- Expertise in offering newer pedagogical or Heutagogical strategies for the faculty members.

- Teaching, research, industrial and/or professional experience in a reputed organization.

- Published work, such as research papers, patents obtained, books, and/ or technical reports.

- Experience of guiding the project work/dissertation of PG/ Research (Ph.D.) scholars or supervising R & D projects in industry.

- Handling National/ International Projects.

- Integration of Information Technology in the specific area of specialization.

PROFESSOR OF RURAL AND ENTREPRENEURSHIP DEVELOPMENT

A. Essential Qualification:

      (a)   (i) B.E./ B.Tech in any branch of Engineering
               (ii) M.E./ M.Tech./ in any branch of Engineering/ MBA/
                    Master's in Rural Development & Entrepreneurship
              (iii) Ph.D. in relevant field.
              (iv) First class or equivalent either at Bachelor's or Master's level.

Note: Relevance shall be decided by the major disciplines as notified by AICTE vide its Gazette notification dated 28th April 2017.

AND

(b) Minimum of 10 years' experience in teaching/ research/ industry, out of which at least 3 years shall be at a post equivalent to that of an Associate Professor or at the pay level of 13A1

AND

(c) At least 6 research publications at the level of Associate Professor in SCI journals/UGC/AICTE approved list of journals and at least 2 successful Ph.D. guided as Supervisor/Co-supervisor till the date of eligibility of promotion

OR

At least 10 research publications at the level of Associate Professor in SCI journals/UGC/AICTE approved list of journals till the date of eligibility of promotion

Note: Candidates who have done Ph.D. after the Bachelor's Degree from Institutions of National importance (i.e. IITs/IISc/NITs etc.) with GATE/ GPAT/ CEED shall be eligible for the post provided degree of Ph.D. awarded is in relevant discipline by a recognised University following the process of registration, course work etc. as prescribed by UGC. Further, candidate should have obtained at least first class at Bachelor's level.

B. Desirable Qualification:

- Conducting training programmes for the faculty members and students in the emerging areas of Entrepreneurship / Startups / Innovation and Incubation centres / Rural Development and Management / Rural Technology.

- Expertise in curriculum design, development and revision for non-formal trades.

- Expertise in developing and Offering MOOCs to faculty members, research scholars and students.

- Teaching, research, industrial and/or professional experience in a reputed organization.

- Published work, such as research papers, patents obtained, books, and / or technical reports in Entrepreneurship / Startups / Rural Development and Management/ Rural Technology.

- Experience of guiding the project work/dissertation of PG/ Research (Ph.D.) scholars or supervising R & D projects related to Entrepreneurship/ Rural Development and Management/ Rural Technology.

- Integration of Information Technology in the specific area of specialization.

PROFESSOR OF CURRICULUM DEVELOPMENT, PLANNING AND COORDINATION

A. Essential Qualification:

(a) (i) B.E./ B.Tech degree in major disciplines* of Civil Engineering/ Mechanical Engineering/ Electrical Engineering/ Electrical and Electronics Engineering/ Electronics Engineering/ Electronics and Communication Engineering/Computer Science and Engineering/ Information Technology

(ii) M.E./ M.Tech. degree in relevant branch.

(iii) Ph.D. in the relevant field of Engineering/ Education.

(iv) First class or equivalent either at Bachelor's or Master's level.

*Note: Relevance shall be decided by the major disciplines as notified by AICTE vide its Gazette notification dated 28th April 2017.

AND

(b) Minimum of 10 years' experience in teaching/ research/ industry, out of which at least 3 years shall be at a post equivalent to that of an Associate Professor or at the pay level of 13A1

AND

(c) At least 6 research publications at the level of Associate Professor in SCI journals/UGC/AICTE approved list of journals and at least 2 successful Ph.D. guided as Supervisor/Co-supervisor till the date of eligibility of promotion

OR

At least 10 research publications at the level of Associate Professor in SCI journals/UGC/AICTE approved list of journals till the date of eligibility of promotion

Note: Candidates who have done Ph.D. after the Bachelor's Degree from Institutions of National importance (i.e. IITs/IISc/NITs etc.) with GATE/ GPAT/ CEED shall be eligiblefor the post provided degree of Ph.D. awarded is in relevant discipline by a recognised University following the process of registration, course work etc. as prescribed by UGC.Further, candidate should have obtained at least first class at Bachelor's level.

B. Desirable Qualification:

- Experience in conducting training programmes for the faculty members/ students in the emerging areas of Pedagogy including Outcome based Education & Educational technologies.

- Expertise in Instructional/ Learning Resources Development, MOOC and online learning resources.
- Expertise in curriculum design, development and revision.
- Expertise in offering Faculty Development Programs in Strategic Planning, Institutional Development, leadership, Accreditation and Ranking Process for the faculty members.
- Teaching, research, industrial and/or professional experience in a reputed organization.
- Published work, such as research papers, patents obtained, books, and / or technical reports.
- Experience of guiding the project work/dissertation of PG/ Research (Ph.D.) scholars or supervising R & D projects in industry.
- Handling National/ International Projects.
- Integration of Information Technology in the specific area of specialization.

Qualification and experience of Professor on Deputation:

Qualification, experience and other criteria for Professor on Deputation will be the same as that of the Professor for Direct Recruitment in all respects. Pay and other terms and conditions governing deputation/ foreign service will be regulated as per Government of India norms.

Qualification and experience of Professor of Practice:

Distinguished experts who have made remarkable contributions in their professions from various fields such as engineering, science, technology, entrepreneurship, media, community development, rural development, small green energy systems, community participation, gender budgeting/planning, inclusive development of education institution and industry. Those who have proven expertise in their specific profession or role with at least 10 years of service/experience, preferably at a senior level, will be engaged for Professor of Practice. A formal academic qualification is not considered essential for this position if they have exemplary professional practice in lieu. These experts will be exempted from the requirement of publications and other eligibility criteria stipulated for the recruitment of faculty members at the Professor level. However, they should possess the skills to carry out their duties and responsibilities efficiently and effectively.

Tenure for Professor of Deputation / Professor of Practice:

The selection of Professor on Deputation/ Professor of Practice shall be followed with due selection procedure applicable to regular selection from the following domain: (a) Computer Science (AI), (b) Drone / Unmanned Aerial Vehicle, (c) Electronics Engineering, (d) Mechanical Engineering, (e) Media / VR / AR and (f) Electrical Engineering.

Such candidates will be appointed initially for a period of one year and extendable on year-to-year basis based on the performance assessment. The maximum duration of service of Professor on Deputation / Professor of Practice will not exceed three years and is extendable by one year in exceptional cases and the total service will not exceed four years under any circumstances.

JOB DESCRIPTION & RESPONSIBILITIES

(Common to ALL the posts of Professor)

- Conduct PG courses and all academic programmes of the institute
- Carry out teaching work and students' project, assessment, examination valuation work, etc.
- Involve in the development and designing of courses and curriculum.
- Introduce new courses and deliver lectures as per institutional policies.
- Encourage students in innovation and entrepreneurship projects & provide necessary mentorship for these activities.
- Focus on enhanced industry-academia collaborations.
- Organize, conduct and evaluate education and training programmes in emerging pedagogy, content and technology areas.
- Organize/ coordinate the relevant long-term programmes and short term courses, workshops, seminars, conferences, webinars, deliver special lectures, training programmes and other activities for the National and International clients in a variety of delivery modes by adopting inter-disciplinary approach.
- Assist the Institute in conceiving designing, trying out and implementation of innovative approaches in education and training, development of curricula, design of instructional materials and development of courseware.
- Facilitate the development of innovative resources like modules, manuals, scripts for ETV programmes, MOOCs, Computer-based Multimedia Learning Packages and e-books.
- Integrate ICT tools in administering the training/ education programmes.
- Facilitate the development of instructional resources using latest technology like AR/ VR.
- Function as an effective member of inter-disciplinary and multifunctional teams of the institute in conceiving, formulating and undertaking various development projects in selected areas of Technical Teachers Education.
- Remain up-to-date in terms of knowledge, information and competencies with regard to latest innovations and advances in respective discipline of Engineeringand have the required aptitude and ability to judiciously apply the same in training of personnel in technical education systems.
- Develop/ update the facilities in the Institute for relevant/ specific applications and maintain the laboratory equipment, facilities and the stocks of the Department/ Centre.
- Undertake Research & Development in any one of the emerging areas of respective discipline of Engineering.
- Undertake/ Assist in consultancy and sponsored R&D projects.
- Guide research works and project work/dissertation of PG/ Research (Ph.D.) students.
- Establishment of Labs in emerging areas
- Participate in Co-curricular and extracurricular activities.
- Assist in departmental and institutional administration.
- Participate in quality assurance and ranking framework activities.
- Serve either in Headquarters or in Extension centres.
- Any other academic / administrative work related to Extension centres assigned by the competent authority.
- Adherence to conduct rules and regulations.
- Any other work assigned by the competent authority.