

**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL**  
P.O. SRINIVASNAGAR 6 575025, MANGALURU.

No.5212/Advt./Faculty/NITK/2017/B1 – II Round

Date: August 29, 2017

**SPECIAL RECRUITMENT DRIVE FOR FILLING UP SC/ST/OBC BACKLOG VACANCIES**  
**FOR ASSISTANT PROFESSOR POSITIONS – II ROUND**

**Note:** In view of the recent modifications in the Recruitment Rules made by MHRD, earlier recruitment notification of the Institute vide No: 5212/Advt./Faculty/NITK/2017/B1 – II Round dated 06.01.2017 stands cancelled. Those who have applied against the said notification need to apply afresh.

**A) POSITION AND SCALE OF PAY:**

**ASSISTANT PROFESSOR:**

**Pay Scale: PB-3 Rs.15600-39100 + 6000/7000/8000 (AGP)**

**B) INSTRUCTIONS / INFORMATION TO CANDIDATES:**

a) Faculty positions are currently available in the following teaching departments :

1. Applied Mechanics and Hydraulics
2. Chemical Engineering
3. Chemistry
4. Civil Engineering
5. Computer Engineering
6. Electrical & Electronics Engineering
7. Electronics & Communication Engineering
8. Information Technology Engineering
9. Mathematical And Computational Sciences
10. Mechanical Engineering
11. Metallurgical & Materials Engineering
12. Mining Engineering
13. Physics
14. School of Management

Category wise number of vacancies at the institute level are as follows:

<b>SC</b>	<b>ST</b>	<b>OBC</b>
<b>3</b>	<b>10</b>	<b>16</b>

b) The detailed recruitment rule containing required qualifications, experience and other terms and conditions for various positions are given in Annexure I and Annexure II. Preferred areas of specializations in various departments are given in Annexure-III. However, candidates with other relevant areas of specializations may also be considered.

- c) Candidates applying for more than one Department are required to submit separate application forms.
- d) Reservation for SC/ST/OBC as per Central Govt. Rules. Candidates belonging to SC/ST/OBC categories should attach certificate obtained from Revenue Authorities not below the rank of Tahasildar or from a First Class magistrate of the place of domicile of the candidates clearly authenticating the category to which they belong. Applicant belonging to OBC category but coming in creamy layer will not be entitled for the benefit of reservation and should apply as general category candidates.
- e) Reservation for PWD exists as per Govt. of India norms. The persons with disability (PWD) shall be required to submit the medical certificate in the prescribed form issued by the competent authorities for the purpose of employment as per GOI norms along with their application. Persons suffering from not less than 40% of the disability shall only be eligible for the benefit of reservation.
- f) Candidates with Ph.D. from NITK can apply only after having at least 3 years Post-Doctoral experience outside NITK. However, this is not applicable to the candidates who are already regular faculty members of NITK
- g) Besides the basic pay in the applicable pay band of the respective positions, admissible allowances like DA, HRA, CCA etc are payable in accordance with Central Government / Institute Rules in force from time to time.
- h) Experienced and meritorious candidates may be granted higher pay on recommendation of the Selection Committee.
- i) The Institute reserves the right to offer some of the positions on Regular / Contract basis. The appointments on contract shall be for a maximum period of 5 years.
- j) Mere fulfillment of the required qualifications and experience, does not entitle a candidate to be called for interview / selection. The Institute reserves the right to fill or not fill any of the positions.
- k) The number of positions may also vary as per the need of the Institute at the time of recruitment.
- l) The Screening committee shall shortlist the eligible and most desirable candidates to be called for interview from amongst the applicants, based on specialization, availability of candidates, and requirements of the departments. In doing so it shall not be bound by the options exercised by the applicants.
- m) The Institute reserves the right to restrict the number of candidates for interview to a reasonable limit, on the basis of qualifications and experience higher than those prescribed in this advertisement.
- n) All Degree Certificates should be from recognized Universities / Institutes.

- o) Candidates in Govt. service should send their applications through proper channel. If original application is routed through proper channel, a photocopy of the application should be sent in advance before the prescribed last date. Such candidates are required to produce **No Objection Certificate** at the time of interview, failing which they may not be considered for interview.
- p) SC / ST/ PWD candidates called for Interview shall be reimbursed as per Govt. of India norms for the to and fro journey by the shortest route from their correspondence address / working Place in India subject to production of ticket(s) & proof of working/ residence in case they are travelling from the place of working in India and self attested documents in support of eligibility. The PWD candidates will be reimbursed travel cost as above and for an attendant also, wherever applicable, as per Govt. of India guidelines. However, local travel cost, if any, shall be borne by the candidates.
- q) Selected candidates should be prepared to join duty within the time granted.
- r) The newly recruited faculty are encouraged / supported to take up R&D activities with financial support, like seed grant, and professional development allowance as per Institute norms.
- s) Candidates are advised to browse the Institute Website: [www.nitk.ac.in](http://www.nitk.ac.in) for other relevant information.
- t) All applicants are required to mention one valid E-Mail ID. Call letters to eligible candidates will be issued through their E-Mail ID only. List of eligible candidates called for Interview will be uploaded in the Institute website.
- u) No correspondence whatsoever will be entertained from candidates regarding reason for not being called for interview / outcome of interview.
- v) The candidate is responsible for the correctness of the information provided in the application. If it is found, at a later date, that any information given in the application is incorrect / false, the candidature / appointment is liable to be cancelled / terminated.
- w) Any dispute regarding the selection/ recruitment process will be subject to courts/ Tribunal having jurisdiction over Mangaluru.
- x) Candidates may be required to make a brief technical presentation during selection process. Details will be communicated accordingly.
- y) Applications not in the prescribed form will not be entertained. Self attested copies of the following documents must be attached:
  - 1. Degree certificates
  - 2. Marks / Grade cards at all levels starting from SSLC
  - 3. SSLC & PUC (10 and 10 + 2) certificate
  - 4. Copy of the Category Certificate.
  - 5. Experience certificate
  - 6. Certificates of Conferences / Seminars /Summer/Winter schools attended during the last five years.

- z) Please enclose a detailed academic profile including the following information
1. Details of publications / conference papers presented listing publications and presentations chronologically giving details of: Names of authors, title of the paper, name of the journal/conference, volume / proceedings, pages, year etc. in Journals and Conferences.
  2. **Attach copies of three best (in your opinion) Refereed papers**
  3. Details of Awards, patents, prizes etc.: Nature and name of Prize/Award, Name of the patent, year and details about the patent etc.
  4. Details of Research guidance (Ph.D /M.S./M.Tech./M.Sc./MBA) : Research degree, name of the scholar, title of thesis, year of award, co-guide, if any, etc.
  5. Details of research/consultancy projects carried out: Title of the project, duration, sponsor, quantum of funds, co-investigators, if any, etc.
  6. Other activities: Text books and Monographs written with publication details,
  7. Continuing Education Programmes /Conferences organized.
  8. Any other relevant information concerning your academic standing.

**How to apply:**

**All PDF Printout of the applications should be sent through Speed Post / Registered Post in sealed envelope super scribed 'Application for the post of Assistant Professor (SC/ ST/ OBC Backlog) in the Department of .....' on or before 25<sup>th</sup> September, 2017 (Monday) by 5.30 p.m.**

**To:  
The Registrar,  
National Institute of Technology Karnataka, Surathkal,  
MANGALURU-575 025,  
KARNATAKA, INDIA.**

**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL****Annexure I****Qualification and other terms and conditions**

SI.No.	Designation, Pay Band and Academic Grade Pay	Essential Qualification	Essential Requirements	Cumulative Essential Credit Points
(1)	(2)	(3)	(4)	(5)
1	*Assistant Professor (On contract) Pay Band-3 with Grade Pay of Rs.6000	Ph.D	NIL	NIL
2.	*Assistant Professor (On contract) Pay Band-3 with Grade Pay of Rs.7000	Ph.D	One year post Ph.D. experience of Teaching and Research in Institution of repute or Industry	10
3.	*Assistant Professor Pay Band-3 with Grade Pay of Rs.8000 with a minimum pay of Rs.30000	Ph.D	Three years after Ph.D. or six years total teaching and research experience in reputed academic Institute or Research and Development Labs or relevant industry.	20

**Note 1:**

- (1) Any change in the grade pay will be through open advertisement and on recommendation of duly constituted selection committee, except where specifically exempted in these rules.
- (2) All new entrants shall have Ph.D. in the relevant or equivalent discipline and shall have first class in the preceding degrees.
- (3) For existing faculty members who completed their Ph.D. along-with their normal teaching load of Institute or quality improvement programme, the enrolment period of Ph.D. will be counted as teaching experience.
- (4) Contribution to Institute Administration shall be recommended by concerned Head or Chairman and approved by the Director. Contribution to departmental Administration shall be recommended by concerned Head and approved by the Director.
- (5) For the departments which are not having any vacancy, movement in higher Academic Grade Pay or cadre shall be carried out as per specified selection process but it will be restricted to only for serving faculty members of the respective departments.

(6) The permanent faculty members who have put in more than ten years experience, but have not acquired Ph.D. qualification as on the date of these notification shall be mapped into four-tier flexible system as one time measure as per following norms:

(a) Permanent faculty with age fifty or above:

- (i) The Assistant Professors with Academic Grade Pay of Rs.7000 shall be mapped at the level of Assistant Professor with Academic Grade Pay of Rs.8000, provided they have at least 10 credit points in their lifetime.

Provided, they have been found suitable through a Selection Committee duly constituted under the Statutes.

**Annexure – II****Note 2: Credit Point System**

The following shall be the credit point system:

<b>S.No</b>	<b>Activity</b>	<b>Credits points</b>
1.	One external Sponsored Research and Development Projects completed or ongoing or Patent granted	8 credit points per project or 8 credit points per patent as inventor (in case of more than one person in a Project, the Principal Investigator gets 5 credit points and the rest to be divided equally among other members)
2.	Consultancy projects	2 credit points @ Rs.5 lakhs of consultancy, subject to maximum of 10 Credit points
3.	Ph.D completed (including thesis submitted cases)	8 credit points per Ph.D. student (in case there are more than one supervisor, then the Guide (1st Supervisor) gets 5 credit points per student and the rest to be divided equally among other supervisor
4.	One Journal papers in Science Citation Index or Scopus (Paid Journals not allowed)	4 point per paper since the last promotion. First author or Main supervisor will get 2 point and rest will be divided among others.
5.	One Conference paper indexed in Science Citation Index or Scopus or Web of science Conference or any internationally renowned conference	1 credit points per paper up to a maximum of 10 credit points. First author or Main Supervisor will get 0.6 and rest will be divided among the rest.
6.	Head of the Department, Dean, Chief Warden, Professor Incharge (Training and Placement), Advisor (Estate), Chief Vigilance Officer, PI (Exam), TEQIP (Coordinator)	2 points per semester up to a max of 16 credits points since the last promotion.
7.	Warden, Assistant wardens, Associate Dean, Chairman or Convener institute academic committees, Faculty In charge Computer Center or Information and Technology Services or Library or Admission or student activities and other Institutional activities.	1 credit point per semester up to a maximum of 8 credits points since the last promotion.
8.	Chairman and Convener of different standing committee and special committee (Ex officio status will not be considered). Faculty in-charges (Each for one year duration) of different Units or equivalent.	0.5 credit point per Semesters up to a maximum of 3 credits points since the last promotion.
9.	Departmental activities identified by Head of the Department like lab in charges, or department level committee for a minimum period of one year.	0.5 credit point per Semesters up to a maximum of 3 credits points since the last promotion.
10.	Workshop or Faculty Development Program or short term courses of min 05 working days duration offered as coordinator or convener.	2 credit points per course up to a maximum of 8 credits points since the last promotion.

<b>S.No</b>	<b>Activity</b>	<b>Credits points</b>
11.	For conducting national programs like Global Initiative of Academic Networks etc. as course Coordinator Program of two weeks duration.  Program of one week duration.	2 credit points per course up to a maximum of 4 credit points since the last promotion.  1 credit point per course up to a maximum of 2 credit points since the last promotion.
12.	National or International conference organized as Chairman or Secretary.	3 credit points per program up a maximum of 6 credits points since the last promotion.
13.	Length of service over and above the relevant minimum teaching experience required for a given cadre.	2 credit points per semester with maximum of 10 credit points since the last promotion.
14.	Establishment of New Lab(s).	4 credit points since the last promotion.
15.	Theory Teaching of over and above 6 credit hrs. course.	1 credit point or credit hrs. up to a maximum of 6 credit points since the last promotion.
16.	Post Graduate Dissertation guided.	0.5 credit point per project to a maximum of 10 points since the last promotion.
17.	Under Graduate Projects	0.25 credit point per project up to a maximum of 4 points since the last promotion.
18.	Text or Reference Books published on relevant subjects from reputed international publishers.	6 credit points per book up to a maximum of 18 points since the last promotion.
19.	Text or Reference book published on relevant subjects from reputed national publishers or book chapters in the books published by reputed international publishers.	2 credit points per unit up to a maximum of 6 points since the last promotion.
20.	Significant outreach Institute out activities.	1 credit point per activity up to a maximum of 4 credit points since the last promotion.
21.	Fellow IEEE, FNA, FNAE, FNASc	10 credit points
22.	Placement percentage (only for the placement cell officers or Faculty incharge of Placement)	
	Above 85%	4 credit points per year upto a maximum of 20 points since the last promotion.
	75% - 84% (% to be based on total number of students passing out and single job offer)	2 credit points per year upto a maximum of 10 points since the last promotion.



**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL****Annexure – III****Specializations required for Faculty Position in various Departments**

<b>Sl. No.</b>	<b>Department</b>	<b>Areas of Specialization</b>
1.	Civil Engineering	<ul style="list-style-type: none"> <li>• Structural Engineering,</li> <li>• Geotechnical Engineering,</li> <li>• Transportation Engineering,</li> <li>• Construction Technology &amp; Management,</li> <li>• Environmental Engineering,</li> <li>• Engineering Geology &amp; Mining Geology.</li> </ul>
2.	Mining Engineering	Rock Mechanics/ Mine Environmental Engineering/ Geo Informatics.
3.	Applied Mechanics & Hydraulics	<p>a. Remote Sensing and GIS- Application in Coastal Engineering / Ocean Engineering / Offshore Engineering/ Hydraulics/Water resources Engineering and Management/ Natural Resources Mapping and Management.</p> <p>b. Coastal/Ocean/Offshore Engineering /Marine Structures</p> <p>c. Hydraulics/Water Resources Engineering &amp; Management.</p>
4.	Metallurgical & Materials Engineering	Metal Casting/Solidification/Mineral Beneficiation/Extractive Metallurgy/ Iron and Steel Metallurgy/ Physical Metallurgy/ Biomaterials/ Mechanical Metallurgy Corrosion/ Powder Metallurgy
5.	Mechanical Engineering	Mechatronics/ Robotics/ CFD and Nanofluids /Machine Dynamics & Vibrations/Turbomachines/I.C. Engines & Combustion/CIM and Lean Manufacturing/Aerodynamics & Compressible flow/ Cryogenics/Precision Engineering/Materials Technology . Composites/Refrigeration and air conditioning.
6.	Physics	Bio-Physics, Soft Condensed Matter, High Energy Physics, Quantum Optics, Photonics, Plasma Physics, Astrophysics, Atomic and Molecular Physics, Computational Physics, Condensed Matter Physics, Cryogenic/Low Temperature Physic, Nanoelectronics, Space Physics.
7.	Chemical Engineering	Process Control, Transfer Operations, Biotechnology, Catalysis, Process Development, Particulate systems, Energy & Environmental Engineering.
8.	Chemistry	<ul style="list-style-type: none"> <li>• Physical Chemistry.</li> <li>• Inorganic Chemistry.</li> </ul>
9.	Information Technology	Data Structures and Algorithms / High Performance and Parallel Computing/ Human Centred Computing / Information Security / Web Technologies / Database System / Computer Networks / Bio-inspired Computing / Cloud computing and Virtualization / Software Engineering / Distributed Computing / Soft computing / Data Analytics and Knowledge Discovery.
10.	MACS	Theoretical Computer Science, High Performance Computing, Software Engineering, Machine Learning, Big data Analysis, Cryptography, Algebra, Number Theory, Geometry, Statistics.

<b>Sl. No.</b>	<b>Department</b>	<b>Areas of Specialization</b>
11.	Electronics & Communication Engineering	Communication systems and Networks / Analog, Digital and Mixed-signal Design / RF Circuits and Systems / Digital Signal Processing, Systems and Architectures / Embedded Systems and Architectures / Computer Architecture , Reconfigurable and Multi-core architectures and design / Sensors, Instrumentation and Control / Optical Communication Systems and Networks / Micro and Nano-electronics and Technology, Machine Learning/ Microwaves, Rader Engineering and Antenna Systems, IOT.
12.	Electrical & Electronics Engineering	Specialization in areas broadly under the Electrical Engineering spectrum especially in Electrical Power System, High Voltage Engineering, Electrical Machines, Signal Processing Applications to Power Systems, with under graduate & post graduate degree in Electrical Engineering.
13.	Computer Science & Engineering	Software Engineering, Human Computer Interface, Software Testing. Computer Networks, Distributed Computing, Cloud Computing, Grid Computing, Mobile Computing. Virtual Reality, Computer Graphics, Multimedia, Green Computing. Information Security, Cyber Security, Cryptography. Theoretical Foundations of Computer Science, Algorithmic Graph Theory and Complexity. Computer Architecture and Organization, High Performance Computing, Optical Networks & Broadband Communication. Operating System, Compilers. Artificial Intelligence system, Machine Learning, Robotics. Data Mining.
14.	School of Management	General Management / Economics / English / Human Resource Management / Marketing Management /Finance / Production and Operations Management / Information Systems and Analytics / Behavioural Sciences / Quantitative Techniques / International Business Management.

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