



NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL
MANGALURU - 575 025, KARNATAKA, INDIA.
Website: <http://www.nitk.ac.in>

No: Advt./Faculty-NITK/Estt./2019/B1

Date: 07.02.2019

RECRUITMENT FOR FACULTY POSITIONS

Online applications are invited from the qualified Indian Nationals for the post of "Assistant Professor" in various disciplines. Please visit the Institute website: www.nitk.ac.in for online application form and general instructions.

Sd/-
REGISTRAR



No: Advt./Faculty-NITK/Estt./2019/B1

Date: 07th February, 2019

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INSTRUCTIONS / INFORMATION TO CANDIDATES:

- 1) The vacant positions of Assistant Professor in NITK are available in the following departments:

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

Note: Tentatively there are 87 vacancies available in the "Assistant Professor" level across the department.

- 2) The detailed recruitment rules containing required qualifications, experience and other terms and conditions for the advertised positions are given in Annexure-I attached to this document. This is as per the Recruitment Rules published in the Ministry of HRD (Dept. of Higher Education) Notification dated 21st July, 2017 as appeared in Gazette of India, EXTRAORDINARY PART II—Section 3—Sub-section (i) dated 24th July, 2017 and the Recommendations of Anomaly Committee issued vide MHRD Letter No. F.No.33-9/2011-TS. III dated 6th October, 2017. The candidates are requested to go through the above mentioned documents thoroughly before submitting the application. Preferred areas of specializations in various Departments are given in Annexure-II attached to this document. However, candidates with other relevant areas of specializations may also be considered.
- 3) The application form has to be submitted in two modes (online and printed). 1. To submit the form online, the recruitment link posted on the NITK homepage (www.nitk.ac.in) may please be checked. All relevant documents have to be uploaded in the recruitment portal along with the application form. A PDF copy of the application form will be generated. 2. The generated PDF copy has to be downloaded and printout to be sent to NITK by Speed/Registered Post. All the necessary certificates (including the ones uploaded in the recruitment portal) have to be enclosed along with the application form. Candidates applying for more than one Department are required to submit separate application forms (both online and printed). The same login can be used to apply for multiple departments.

- 4) Concessions and reservation for SC/ST/OBC/EWS are as per Central Govt. Rules applicable to teaching posts at NITs. Candidates belonging to SC/ST/OBC/EWS categories should attach certificate obtained from Revenue Authorities not below the rank of Tahsildar 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.
- 5) Concessions and reservation for PwD is 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.
- 6) Besides the applicable Pay Level of the respective positions as per 7th CPC, admissible allowances like DA, HRA, CCA etc. are payable in accordance with Central Government/ Institute Rules in force from time to time.
- 7) Experienced and meritorious candidates may be granted higher pay on recommendation of the Selection Committee.
- 8) 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.
- 9) The Screening committee shall shortlist the eligible and most desirable candidates to be called for seminar, 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.
- 10) The Institute reserves the right to restrict the number of candidates for seminar, interview to a reasonable limit, on the basis of qualifications and experience higher than those prescribed in this advertisement.
- 11) All Degree Certificates should be from recognized Universities / Institutes.
- 12) 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 so as to reach NITK 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.
- 13) SC / ST/ PwD candidates called for seminar, 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. This is subject to production of valid ticket(s) in original and proof of working / residence in case they are travelling from the place of working/residence in India with self-attested copies of 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.
- 14) Selected candidates should be prepared to join duty within the time granted.
- 15) Candidates are advised to browse the Institute Website: www.nitk.ac.in for other relevant information.

- 16) Applicants are to register with a valid e-mail ID in the recruitment portal. Call letters to eligible candidates will be issued through e-mail only. List of eligible candidates called for Interview will be uploaded in the Institute website.
- 17) No correspondence whatsoever will be entertained from candidates regarding reason for not being called for interview / outcome of interview.
- 18) 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.
- 19) Any dispute regarding the selection/ recruitment process will be subject to courts/ Tribunal having jurisdiction over Mangaluru.
- 20) Candidates may be required to make a brief technical presentation during selection process. Details will be communicated accordingly.
- 21) Applications not in the prescribed format will not be entertained. The following documents are to be uploaded in the recruitment website. Self-attested hard copies of the same are to be enclosed with the printout of the application and sent to NITK, Surathkal. The documents collected are to support the candidature as per the credit calculation system outlined in the Gazette notification (reproduced in Annexure - I of this document).
 - (a) Candidate photograph, candidate signature.
 - (b) Academic certificates starting from SSC/SSLC (or equivalent) up to present qualification.
 - (c) Marks / Grade cards at all levels starting from SSLC
 - (d) Copy of the Category Certificate, Person-with-Disabilities certificate (if applicable).
 - (e) Experience certificates, salary slips (if applicable).
 - (f) Publications list as per SCOPUS (www.scopus.com). Proof of publishing Text/Reference Books, and book chapters.
 - (g) Proofs of R & D projects and consultancies completed/ongoing.
 - (h) Proofs of PhD thesis (lone or joint), M.Tech theses, and B.Tech projects guided
 - (i) Proofs of patents granted / filed.
 - (j) Details of administrative responsibilities handled.
 - (k) Details of Workshops/ FDP/ Short term courses/ Continuing education programmes/ National/ International Conferences/ GIAN courses organized/ conducted.
 - (l) Details of significant outreach activities.
 - (m) Proofs of Fellowships/Awards/Prizes earned.
- 22) Regarding uploading publications list, the PDF version of the publications list to be uploaded from SCOPUS (www.scopus.com). The procedure to obtain the list will be available in the NITK recruitment website.
- 23) As an Institute of National Importance, NITK strives to have a workforce which reflects an all-India character and hence candidates from all over the country are encouraged to apply.
- 24) Fresh appointments beyond the age of 60 years is discouraged except in the case of faculty with exceptionally brilliant research (particularly industrial research involving a strong record of patents) career and with ongoing or approved externally funded research projects.

- 25) Candidates who have been considered at least twice on earlier occasions in the NITK, but not selected will not ordinarily be short-listed. An exception can be made only on the basis of special achievement(s) made after the previous round of selection process.
- 26) Check List of uploaded and Enclosures / Certificates / Testimonials are attached as **Annexure - III** to be referred while filling the online application. The copy of the same duly ticked the appropriate ones is to be attached with the application.
- 27) **How to apply:**

The PDF printout of the online application along with all relevant documents are to be sent in sealed envelope superscribed as 'Application for the post of "Assistant Professor" in the Department of at NITK, Surathkal' to the address given below through Speed Post / Registered Post so as to reach NITK on or before **13-03-2019 by Wednesday 05.30 p.m.**

Online application should be submitted on or before 08-03-2019 by Friday 05:30 pm.

Application Fee (Non-refundable):

- Applicants belonging to General and OBC category Rs.1000/- (Rupees One Thousand Only) for each applications submitted.
- Applicants belonging to SC/ST category Rs.500/- (Rs. Five Hundred only) for each applications submitted.

Application fee can be paid online from the bank of the candidate by mentioning following detail in their RTGS/NEFT request:

Beneficiary Name : NITK, Surathkal
Bank Name : STATE BANK OF INDIA
Branch Name : NITK, Campus
IFSC Code : SBIN0002273
Account No. : 37772503911
Mode of A/C : Current A/C

Candidate name and words "**Faculty Recruitment**" to be mentioned UTR to be mentioned in the application form & copy to be enclosed to the application.

To:

The Registrar,
National Institute of Technology Karnataka, Surathkal,
Mangaluru - 575 025,
Karnataka, India.

Annexure I

**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL
MANGALURU - 575 025, KARNATAKA, INDIA.**

Website: <http://www.nitk.ac.in>

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Qualification and other terms and conditions as per the Recruitment Rules published in the Ministry of HRD (Dept. of Higher Education) Notification dated 21st July, 2017 as appeared in Gazette of India, EXTRAORDINARY PART II-Section 3-Sub-section (i), dated 24th July, 2017 and the Recommendations of Anomaly Committee issued vide MHRD Letter No. F.No.33-9/2011-TS. III dated 6th October, 2017 (For full details please refer the above said communications available in NITK website)

Sl. No.	Designation, Pay Level as per 7 th CPC	Essential Qualification	Essential Requirements	Cumulative Essential Credit Points
(1)	(2)	(3)	(4)	(5)
1.	*Assistant Professor Grade-II, Pay Level-10 (Pay Band – 3 with Academic Grade Pay of Rs.6000 in VI CPC)	Ph.D.	NIL	NIL
2.	*Assistant Professor Grade-II, Pay Level-11 (Pay Band – 3 with Academic Grade Pay of Rs.7000 in VI CPC)	Ph.D.	one year post Ph.D. experience of Teaching and Research in Institution of repute or Industry	10
3.	*Assistant Professor Grade-I Pay Level – 12 (Pay Band – 3 with Academic Grade Pay of Rs.8000 in VI CPC)	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.

Note 2: Credit Point System

The following shall be the credit point system:

Sl. No.	Activity	Credits points
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 the 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 In-charge (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.

Sl. No.	Activity	Credits points
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.



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Specializations required for Faculty Positions in various Departments

Sl. No.	Department	Areas of Specialization
1.	Civil Engineering	<ul style="list-style-type: none"> • Structural Engineering, • Geotechnical Engineering, • Transportation Engineering, • Environmental Engineering, • Construction Technology and Management (CTM), • Geology/ Engineering Geology.
2.	Mining Engineering	<ol style="list-style-type: none"> 1. Rock Mechanics and Strata Control. 2. Mine Environmental Management.
3.	Applied Mechanics & Hydraulics	<ol style="list-style-type: none"> a. Remote Sensing and GIS - Application in Coastal Engineering / Ocean Engineering / Offshore Engineering/ Hydraulics/ Water Resources Engineering and Management/ Natural Resources Mapping and Management. b. Coastal/Ocean/Offshore Engineering /Marine Structures c. Hydraulics/Water Resources Engineering & Management.
4.	Metallurgical & Materials Engineering	Metal Casting/Solidification/Mineral Beneficiation/Extractive Metallurgy/ Iron & Steel Metallurgy/ Physical Metallurgy/ Biomaterials/ Mechanical Metallurgy/ Corrosion/ Powder Metallurgy/ Computational Materials Science/ Advanced Materials.
5.	Mechanical Engineering	Basic degree in Mechanical /Automobile / Industrial Production/ Mechatronics; Machining, Mechatronics & Automation, Robotics, Biomechanics, Casting, Welding, Non-conventional machining, Metrology, Measurements and Instrumentation, Metal forming, Control Engineering, Energy Engineering, Stress Analysis, Mechanical Dynamics, Mechanical Design.
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 Physics, Nano Electronics, Space Physics, Atmospheric Physics, Electronics.
7.	Chemical Engineering	Process Control, Transfer Operations, Biotechnology, Catalysis, Process Development, Energy & Environmental Engineering, Modelling and Simulation.
8.	Chemistry	<ul style="list-style-type: none"> • Inorganic Chemistry. • Physical Chemistry.
9.	Information Technology	Algorithms and Data Structures, Artificial Intelligence, Automata and Compiler Design, Big Data, Computer Architecture, Database Systems, Data Analytics, Discrete Mathematics, Distributed Computing Systems, Human Computer Interaction, Information Security, Multimedia Signal Computing, Parallel and High Performance Computing, Software Engineering, Web Technologies.

Sl. No.	Department	Areas of Specialization
10.	MACS	Big Data Analytics, Cryptography, Machine Learning, Network Security, Theory of Computation, Data Science, Computational Science, Data Base Management Systems (DBMS), Optimization Statistics, Linear Algebra, Differential Equations.
11.	Electronics & Communication Engineering	Embedded Systems and Architectures / Computer Architecture, Reconfigurable and Multi-core architectures / Analog Digital and Mixed-signal VLSI/ RF Circuits and Systems / Digital Signal Processing, Systems and Architectures / Machine Learning / Communication Systems and Networks / Optical Communication Systems and Networks / Micro and Nano-electronics and Technology / Microwaves, Radar Engineering and Antenna Systems / IOT / Sensors, Instrumentation and Control.
12.	Electrical & Electronics Engineering	Specialization in areas broadly under the Electrical and Electronics Engineering spectrum especially in Electrical Power System, High Voltage Engineering, Electrical Machines, Power Electronics, Signal Processing application to Electrical and Electronics Engineering, Artificial intelligent application to Electrical and Electronics Engineering, Renewable generation with under graduate and post graduate degree in Electrical/Electrical and Electronics Engineering.
13.	Computer Science & Engineering	Formal methods, Geometric complexity theory, Machine learning, Natural language processing, Cloud computing, Computer vision, Theoretical computer science, Formal verification, Software architecture, Programming languages virtualization, Cryptography, Real time systems, Functional Programming, Combinatorial optimization, Networking and systems, Computer and network security, Information security, Game theory, Approximation algorithms, Hardware – Software codesign, Compiler design, Data Science.
14.	School of Management	General Management, Economics, English, Human Resource Management, Finance, Production & Operations Management, Behavioural Sciences, Quantitative Techniques and Business Analytics.



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**Check List of uploaded and Enclosures / Certificates / Testimonials
(Tick the appropriate ones)**

Sl. No.	Item	Number
1.	Proof of Date of Birth Upload SSLC marks card.	
2.	Category Certificate (SC/ST/OBC/PwD/EWS) Upload the certificates	
3.	Academic Records (Marks/ Grade Cards and Certificates from SSLC/Matriculation onwards up to Ph.D.) Upload all certificates	
4.	Experience Certificates, Upload the certificate	
5.	Salary Certificate/ Pay Slip of Current Employment Upload the certificate/salary slip	
6.	Journal Publications, Patents and Copyrights Details Upload the scopus.com pages, Upload the first page of the Journal paper containing author details	
7.	Workshops/ Conferences/ Short Term Programs Organized Upload the certificates	
8.	Conferences/Workshops Attended and Presented Papers Upload the first page of the paper presented in the conference containing author details	
9.	Sponsored and Consultancy Projects, Upload the sanctioned letters/completion certificates	
10.	Fellowship/Membership of Professional Bodies Upload the copies of membership certificates	
11.	Awards and Recognitions, Upload the certificates	
12.	Ph.D, PG and UG guidance PhD guidance upload the OM issued by Institute/Universities	
13.	Administrative responsibilities Upload the letter as mentioned in the Instructions.	
14.	Establishment of new Labs Upload the funding received from the agency.	
15.	Significant outreach activities Upload the proof of the outreach activities carried out	
16.	Testimonials - New entrants to upload	
17.	Other Relevant Certificates, Upload the relevant certificates	
