

# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

MANGALORE -575025, Karnataka State

Fax: 91-824-2474033

No.ADMN/2018-2019/E1

Ph: 0824-2474000-2474023

Dated: 27.11.2018

## ADMISSION TO Ph.D. PROGRAMMES 2018-19 (Selection of NPIU appointed Assistant Professors)

**Applications are invited from Indian citizens for admission to Ph.D., Programmes for the academic year 2018-19**

Application form and information brochure can also be downloaded from NITK website <http://www.nitk.ac.in> and completed application form is to be sent to the Asst. Registrar (Academic) NITK, along with necessary D.D. for Rs. 500/- (in case of SC/ST Rs. 150/-) drawn in favour of the Director, National Institute of Technology Karnataka, Surathkal, Srinivasnagar, payable at Mangalore. Application without the D.D for the required amount will not be considered. The last date for submission of completed application is **7.12.2018 (Saturday)**

### 1. PH.D. PRAGRAMME: SPECIALIZATIONS:

*Specializations in Ph.D. Programme are listed below:*

1. Civil Engineering Structures, Geotechnical, Transportation, Construction Technology and Management Environment, Earth Sciences
2. Applied Mechanics & Hydraulics Water Resources Engg & Management, Marine Structures & Coastal Engg., RS & GIS Applications.
3. Mechanical Engg Renewable Energy, Alternative Fuels, IC Engine & Combustion, Refrigeration and Air-conditioning, Heat Transfer, Fluid Dynamics, Fracture Mechanics and Fatigue, FEM, Stress Analysis, Tribology, Machine Dynamics and Vibration, Advanced Materials, Advanced Manufacturing, Mechatronics, MEMS, Nanotechnology, Robotics and Control, Product Design, Structural Acoustics, Polymer Nano-Composites, Precision Manufacturing.
4. Electrical and Electronics Engineering Adaptive and Distributed Signal Processing for Sensing and Image Applications; Control System; Electrical Machines and Machine Diagnosis; High Voltage Engineering and Field Computations; Power Electronics and Drives; Power Systems; Renewable Energy Technologies; Smart Grid Technologies.
5. Electronics & Commn. Communication/VLSI/ Signal Processing
6. Chemical Engineering Process Development, Particulate Systems, Environmental Engineering, Transfer Operations, Industrial Biotechnology, Energy, Modelling and Simulation, Computational Fluid Dynamics, Nanosciences / Nanotechnology, Polymer nanocomposites, Process dynamics and control
7. Metallurgical & Materials Engineering Physical Metallurgy, Mechanical Metallurgy, Extractive Metallurgy, Beneficiation of Minerals, Welding, Surface Engineering, Corrosion, Polymer Nanocomposites, Ceramic and Polymeric Nanofabrics, Energy conversion and storage, Thin films & coatings, Advanced Materials, Heat transfer studies.
8. Mining Engg. Rock Mechanics & Ground Control Engineering, Drilling & Blasting, Mine Planning, Environmental Management
9. Physics Condensed Matter Physics (Experimental)
10. Chemistry Inorganic, Materials, Physical and Organic Chemistry
11. School of Management Business Policy, International Business, Technology Management, Organizational Behaviour, Human Resource Management, Marketing, Corporate Finance, Capital Markets, Behavioural Finance, Development Economics, International Economics, Agricultural Economics, Rural Development, Applied Econometrics, Operations Management, Information Systems, E-Governance, English and Comparative Literature, and Other related areas.
12. Mathematical and Computational Sciences Computational Fluid Dynamics , Wireless Sensor Networks, Reliability Engineering, Graph Theory, Graph Algorithms, Computer Network Security, Real Analysis, Dynamical Systems, Image Processing, Differential Equations, Numerical Methods. Algebra, Number Theory, Cryptography, Functional Analysis, Spectral Analysis, Cloud Computing
13. Information Technology Affective Computing, Big Data Analytics, Cloud/Edge/Fog Computing, Cloud Security, Computer Networks, Cyber Security, Databases, Data Mining, Distributed Computing, Healthcare Informatics, High Performance Computing,

Information Retrieval, Information Security, Internet of Things, Natural Language Processing, Network Security, Semantic Web Technology, Social Multimedia/Social Network Analysis, , Software Engineering , Web Services, Wireless Sensor Networks.

**14. Computer Science and Engg.**

Computer Networks, Software Engineering, Distributed Computing, Data Mining, Information Security, High Performance Computing, Computer Vision, Cloud Computing, Image Processing, Speech Processing, Mobile computing

**2. ELIGIBILITY FOR ADMISSIONS TO PH.D. PROGRAMME:**

- i) **NPIU has facilitated appointment of 1225 Assistant Professors (Temporary) at 53 project Institutes in 11 focus States (i.e. low income States, hilly and North East States). Most of these teachers have obtained their Master's degree from IITs/NITs and of these, about four hundred fifty (450) teachers have expressed a desire to register for the PhD program. In this regard, MHRD has mandated NPIU to formulate a proposal to sponsor the PhD programme (part-time) for these teachers under TEQIP-III.**
- ii) Eligibility Requirements: Admission to a Ph.D. Programme shall be open to Indian Nationals who passed the qualifying degree in relevant field with a Cumulative Grade Point Average (CGPA) of at least 6.0 in the 0-10 scale grading system, or not less than 60% marks in the aggregate (taking into account the marks scored in all the subjects of all the public/ university examinations conducted during the entire prescribed period for the qualifying degree). However, this prescribed minimum shall be a CGPA of 5.5 or 55% marks in the aggregate for SC/ST/PwD candidates. The prescribed qualifying examination is as follows:
  - a. For PhD in Engineering/Technology – Master’s degree in relevant field.
  - b. For PhD in Physics – Master’s degree in relevant field
  - c. For PhD in Chemistry - M.Sc. / M. Tech in relevant field including M. Pharma and MCA.
  - d. For PhD in Humanities, Social Science & Management – Master degree in relevant field, CA along with undergraduate degree.

If the evaluation system in qualifying degree is in both CGPA and Marks, CGPA value will be considered. Also Conversion from Grade point system to Percentage system will not be considered.

**3. INTAKE FOR PHD PROGRAMMES FOR NPIU APPOINTED ASSISTANT PROFESSORS:**

**There are only TWO Seats available per Department for admission to PhD programme during the academic year 2018-19 (December Session)**

**4. IMPORTANT DATES:**

**Calendar of Events for admission to PhD Programmes 2018-19: NPIU Appointed Teachers**

Last Date for receiving completed applications	7-12-2018 (Saturday)
Last date for dispatch of call letters to short-listed candidates, and announcement in the website by respective departments.	10.12.2018 (Monday)
Selection Test and/or Interview	20.12.2018 (Thursday)
Publication of provisional selection/merit-list on website	21.12.2018 (Friday)
Last date for Sending admission orders/letters	24.12.2018 (Monday)
Reporting Dates for Selection-List Candidates	24.12.2018 – 31.12.2018
Course Registration	26-12-2018 (Wednesday)
Classes begin	27.12.2018 (Thursday)

**Note: If a candidate desires to apply for PhD programme in one or more departments, he/she should submit separate APPLICATION along with Demand Draft of Application fee for each program.** Candidates called for interview will have to appear for Departmental Interview at their own cost. The written test and/or interview will be held at N.I.T.K., Surathkal.

**5. DOCUMENTS TO BE SUBMITTED AT THE TIME OF INTERVIEW:**

- 1. Interview Call Letter issued by the Competent Authority.
- 2. No Objection Certificate for admission to PhD programme (as per Institute’s Format)
- 3. Original marks card of qualifying examinations (1<sup>st</sup> to Final Year) with two sets of duplicate copies. (The

spelling and order of the name should be same in all the years of marks card, degree certificate and Migration Certificate).

4. Course Completion certificate from college (if qualifying degree exam results are awaiting)
5. Degree Certificate or Provisional Pass Certificate issued by the University.
6. Medical Certificate (General fitness).
7. Date of Birth Certificate in original(X Std. or SSLC)
8. Transfer Certificate, Conduct Certificate and Migration Certificate.

**6. FEE STRUCTURE FOR PH.D. PROGRAMME FOR THE YEAR 2018-19:**

Semester Fees	First Year		Second Year		Third Year	
	I Sem. Rs.	II Sem. Rs.	III Sem. Rs.	IV Sem. Rs.	Odd Sem Rs.	Even sem. Rs.
Tuition fee #	7500	7500	7500	7500	7500	7500
Library Fees	1500	-	1500	-	1500	-
Central Computing Facility	750	-	750	-	750	-
Student Activities Fee	2575	-	2525	-	2525	-
Group Insurance coverage of students (Full Time Candidates only)	350	-	350	-	350	-
Thesis Evaluation Fees	5000 One time	-	-	-	-	-
Security Deposit (refundable)	4000	-	-	-	-	-
Institute Development Contribution (IDC)	1000	1000	-	-	-	-
Convocation Fee	1000	1000	-	-	-	-
Swimming Pool Fee	500	500	-	-	-	-
Campus Development Fee	500	500	-	-	-	-
Alumni Association	1000	-	-	-	-	-
<b>Hostel Fee (for Hosteller)</b>						
i) Admission Fee	750	-	-	-	-	-
ii) Hostel Rent (including water/electricity charges)						
i) Boys (Single room accommodation)	5000	5000	5000	5000	5000	5000
ii) Girls (Single room accommodation)	5000	5000	5000	5000	5000	5000

**Note: Candidates who have extended their programme beyond 3 years have to pay the same fee as of III year.**

**FEE STRUCTURE FOR INTERNAL CANDIDATES FOR PHD PROGRAMME. (PART TIME CANDIDATES)**

Tuition fee = Rs.5000 per year

Institute Development Contribution = Rs.6000 first year

Alumni Association = Rs.1000 (one-time payment at the time admission)

**Mess Fees (At Hostel Office) for Hostellers**

	<b>Ph.D.</b>
1. Admission Fee	100.00
2. Establishment Charges – per semester	7,500.00
2. Maintenance	2,500.00
3. Students Extra Curricular	500.00
4. Mess Advance – Every semester	15,000.00
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	25,600.00*
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Mess Fee structure is tentative subject to revision.

**Note: Refund of fees and deposits paid for Institute admission:**

Any student who withdraws admission before the closing date of admission is eligible for the refund of all the fees and deposits, after deduction of a processing fee of Rs.1000 /- (Rupees One Thousand Only)

**Ragging: If any incident of ragging comes to the notice of the authority, concerned student shall be given liberty to explain and if his explanation is not found satisfactory, the authority would expel him / her from the institution.**