NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

MANGALORE -575025, Karnataka State

Fax: 91-824-2474033 Ph: 0824-2474000-2474023 No.ADMN/2018-2019/E1 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:

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1.	Civil Engineering	Structures, Geotechnical, Transportation, Construction Technology and
		Management Environment, Earth Sciences
2.	Applied Mechanics &	Water Resources Engg & Management, Marine Structures & Coastal Engg.,
	Hydraulics	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	Adaptive and Distributed Signal Processing for Sensing and Image
	Engineering	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,
•	enemen zugmeering	Transfer Operations, Industrial Biotechnology, Energy, Modelling and
		Simulation, Computational Fluid Dynamics, Nanosciences / Nanotechnology,
		Polymer nanocomposites, Process dynamics and control
7.	Metallurgical & Materials	Physical Metallurgy, Mechanical Metallurgy, Extractive Metallurgy,
	Engineering	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
0	Physics	Planning, Environmental Management Condensed Matter Physics (Experimental)
9. 10.	Chemistry	Inorganic, Materials, Physical and Organic Chemistry
11.	School of Management	Business Policy, International Business, Technology Management,
11.	Sensor of 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 Fluid Dynamics , Wireless Sensor Networks, Reliability
	Computational Sciences	Engineering, Graph Theory, Graph Algorithms, Computer Network Security,
		Real Analysis, Dynamical Systems, Image Processing, Differential Equations,
		Numerical Methods. Algebra, Number Theory, Cryptography, Functional
13.	Information Technology	Analysis, Spectral Analysis, Cloud Computing Affective Computing, Big Data Analytics, Cloud/Edge/Fog Computing, Cloud
13.	information reciniology	Security, Computer Networks, Cyber Security, Databases, Data Mining,
		Distributed Computing, Healthcare Informatics, High Performance Computing,
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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. <u>IMPORTANT DATES:</u>

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 (Ist 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:

First Year		Second Year		Third Year	
I Sem. Rs.	II Sem. Rs.	III Sem. Rs.	IV Sem. Rs.	Odd Sem Rs.	Even sem. Rs.
7500	7500	7500	7500	7500	7500
1500	-	1500	-	1500	-
750	-	750	-	750	-
2575	-	2525	-	2525	-
350	-	350	-	350	-
5000 One time	-	-	-	-	-
4000	-	-	-	-	-
1000	1000	-	-	-	-
1000	1000	-	-	-	-
500	500	-	-	-	-
500	500	-	-	-	-
1000	-	-	-	-	-
750	-	-	-	-	-
5000 5000	5000 5000	5000 5000	5000 5000	5000 5000	5000 5000
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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

	Ph.D.		
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		
	25 (00 00*		
	25,600.00*		

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.