



IRIS

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

राष्ट्रीय प्रौद्योगिकी संस्थान कर्नाटक, सुरत्कल

P.O SRINIVASNAGAR, MANGALORE - 575025

EC Call Letter List

PhD, 2024 - 25

The following applicants have been selected for written exam and/or interview for the department for the department of Electronics and Communication Engineering for PhD Programme. The applicants are requested to go through additional information provided in their Call letters.

#	Name	Reference Number	Branch/Specialisation
1	MANOJ KUMAR S	PH2024EC0001	Electronics and Communication Engineering
2	ramesh h r	PH2024EC0002	Electronics and Communication Engineering
3	PREMA KUMAR KUMBHA	PH2024EC0003	Electronics and Communication Engineering
4	Vidyasagar	PH2024EC0004	Electronics and Communication Engineering
5	DIVYA	PH2024EC0005	Electronics and Communication Engineering
6	SPOORTHI KUMARI	PH2024EC0006	Electronics and Communication Engineering
7	Shruthi P R	PH2024EC0007	Electronics and Communication Engineering
8	Sumitha E C	PH2024EC0008	Electronics and Communication Engineering
9	GEEVITHA T	PH2024EC0012	Electronics and Communication Engineering
10	NANDANA V	PH2024EC0013	Electronics and Communication Engineering
11	S J VIGNESH	PH2024EC0014	Electronics and Communication Engineering
12	SARAVANAN G	PH2024EC0015	Electronics and Communication Engineering

प्राध्यापक एवं निदेशक/PROF & HEAD
इ. एवं उद्दी विभाग/Department of E & C
एन.ए.पी.डी.ए. मंगलूरु/NTITK Surathkal
P.O SRINIVASNAGAR, MANGALORE - 575025
प्रदेश/Prof & Head



IRIS

EC Call Letter List

PhD, 2024 - 25

#	Name	Reference Number	Engineering Branch/Specialisation
13	Kalpashree M A	PH2024EC0016	Electronics and Communication Engineering
14	ARCHAKAM AMARESWARA KUMAR	PH2024EC0017	Electronics and Communication Engineering
15	SHEEN ROSE	PH2024EC0019	Electronics and Communication Engineering
16	Shivani Ojha	PH2024EC0020	Electronics and Communication Engineering
17	NAGARATHNA H S	PH2024EC0021	Electronics and Communication Engineering
18	Vudumula Keerthana	PH2024EC0022	Electronics and Communication Engineering
19	VENKATAMAHESHBABU LELLA	PH2024EC0023	Electronics and Communication Engineering
20	Suman Agrawal	PH2024EC0024	Electronics and Communication Engineering
21	ramesh h r	PH2024EC0026	Electronics and Communication Engineering
22	Ashwin Kumar S K	PH2024EC0027	Electronics and Communication Engineering
23	Abhilash S	PH2024EC0028	Electronics and Communication Engineering
24	Lajuvanthi M	PH2024EC0029	Electronics and Communication Engineering
25	ASHOK KUMAR AWASTHI	PH2024EC0030	Electronics and Communication Engineering
26	Dhanyashree	PH2024EC0031	Electronics and Communication Engineering
27	ANAND KUMAR D R	PH2024EC0033	Electronics and Communication Engineering
28	Koushik K Rao	PH2024EC0034	Electronics and Communication Engineering

प्राध्यापक एवं विभागाध्यक्ष / PROF & HEAD
इ. एवं सी. विभाग / Department of E & C
एन.आई.टी.के. सुरत्कल/NITK Surathkal
मंगलूर / MANGALURU - 575 025



NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

राष्ट्रीय प्रौद्योगिकी संस्थान कर्नाटक, सुरत्कल

P.O SRINIVASNAGAR, MANGALORE - 575025

IRIS

EC Call Letter List

PhD, 2024 - 25

#	Name	Reference Number	Branch/Specialisation
29	Salini Yadav	PH2024EC0035	Electronics and Communication Engineering
30	VANARASI VIJAYA LAKSHMI	PH2024EC0037	Electronics and Communication Engineering
31	GURUNADHAN J	PH2024EC0038	Electronics and Communication Engineering
32	ASHWINI	PH2024EC0039	Electronics and Communication Engineering

Head Of Department
Electronics and Communication Engineering

प्राध्यापक एवं विभागाध्यक्ष/PROF & HEAD
न एन सी. विभाग / Department of E & C
एन आई टी के, सुरत्कल/NITK Surathkal
मंगलूर / MANGALURU - 575 025

Dean Academics

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA SURATHKAL
P.O. SRINIVASNAGAR, MANGALURU-575 025
Telephone: 0824-2473046, Website: www.ece.nitk.ac.in

Date: 09-05-2024

Shortlisted candidates for Ph.D. Programme–Written Aptitude Test / Interview for the year 2024-25

With reference to your application for admission to PhD programme in the department of Electronics and Communication Engineering, you are requested to appear for the Written test/Interview at NITK Surathkal. You should produce all the original records such as Date of Birth Certificate, GATE Score Card (if applicable), Degree Certificate and Marks Cards of all semesters (UG and PG programmes), SC/ST/OBC/EWS certificate (if applicable as per proforma), Person with disability certificate (if applicable), Sponsorship letter (if applicable), Conduct Certificate and valid photo identity card. Please keep a self-attested photocopy of all these certificates readily available at the time of interview.

Department	: Department of Electronics and Communication Engineering
Place of Reporting	: Department of Electronics and Communication Engineering, NITK Surathkal
Written Test Date and Time	: May 20, 2024, 9.00 AM at ECE Department
Announcement of shortlisted candidates for interview	: May 20, 2024, 12.00 PM
Interview Date and Time	: May 20, 2024, 2.00 PM Onwards, Meeting room, ECE Department May 21, 2024, 9.00 AM Onwards, Meeting room, ECE Department

NOTE:

1. Candidates should be prepared to appear for the written Aptitude Test before the interview. Fee Structure for PhD programme and Course syllabus are provided on Institute's website, i.e. www.nitk.ac.in. A copy of the syllabus for the aptitude test is given in a separate page.
2. Full-time/External Registrants - sponsored from Industry or other organizations including Educational Institutions, should have been serving in the sponsoring organisation for a period of at least 2 years after qualifying degree have to produce a letter from their employer stating that the candidate is deputed for Research Programme (Full time /External Registrant) in the Institute on **full salary** during the study period. The employer should indicate that the candidate will not be withdrawn midway before the completion of the course. (Sponsorship letter should be in the format provided in the Application Form).
3. Candidates who have not submitted marks of final examination along with application form shall produce the same at the time of admission if available.
4. Your candidature for this test is provisional & is subject to your fulfilling the educational qualifications & other criteria prescribed for the programme as mentioned in Information Brochure, failing which your candidature can be summarily rejected after verification/scrutiny at a later stage.
5. Please keep the Admit Card ready during the offline test and interview. You are responsible for safe custody of the Admit Card and in the event of any other person using this Admit Card, the responsibility lies on you to prove that you have not used the service of an impersonator.
6. Candidates must give 10-minute presentations of their research plans (not more than 6 slides). Email the presentation in PDF format to ecnitk@gmail.com on or before 17th May 2024.
7. Please note that no expenses shall be payable for appearing in the written test/Interview.

प्राध्यापक एवं विभागाध्यक्ष / PROF & HEAD
इ. एवं सी. विभाग / Department of E & C
एन.आई.टी.के. सुरथकल / NITK Surathkal
मंगलूर / MANGALURU-575 025
Head of the Department

Date: 09-05-2024

Syllabus for PhD Programme Aptitude Test- May 2024

The Test paper has 2 Parts, Part-1 is compulsory, and Part -2 is stream specific modules. The candidate is supposed to attempt Module A or Module B or Module C from Part-2 depending on the domain in which a candidate wishes to pursue PhD. Part-1 has 15 multiple choice type questions, whereas, each module of Part-2 has 15 multiple choice type questions. Each correct answer carries 1 mark and wrong answer carries -0.25 marks.

Note: Total duration of Exam is one hour. Calculator is permitted.

Part-1:

Linear Algebra, Calculus, Differential and Difference equations. Numerical methods, Transforms, Linear circuits and networks, Electronic components and Devices, Analog Electronics, Digital Electronics, Signals and Systems, Linear and Digital Control Theory

Part-2:

Module-A (CEN Stream)

Electromagnetic Waves, Probability and Random Processes, Communication Theory, Communication Circuits, Transmission Lines, Wave Guides, Antennas, Microwave devices and Circuits, Data Communications, Communication Networks, Satellite Communication, Optical Communication, Fundamentals of Signal Processing.

Module-B (SPML stream)

Time domain analysis of discrete-time systems - Basic discrete time signals, discrete-time Fourier Series, Z Transform – definition and properties, Discrete-time Fourier Series and its properties, Properties and applications of DTFT. Relationship between time, Z and frequency domains, DFT fundamentals and Properties of DFT. FIR and IIR filters analysis and design, Fundamentals of image processing. Data structures, Linked list, stacks and queues.

Module-C (VLSI Design)

Linear and Digital ICs, Digital System Design, VLSI Technology, CMOS VLSI, Mixed Signal Design, HDL, Data converters, Microprocessors, Computer Architecture and organization, Logic Synthesis, DSP Architectures, Embedded Systems.



प्राध्यापक एवं विभागाध्यक्ष/PROF & HEAD
इ. एवं सी. विभाग / Department of E & C
एन.आई.टी.के. सुरत्कल/NITK Surathkal
मंगलूरु / MANGALURU - 575 025