



NATIONAL INSTITUTE OF TECHNOLOGY GOA
Farmagudi, Ponda – 403-401, Goa
(An Institution of National Importance under MHRD,
Govt. of India, New Delhi)

Information Brochure for Admission to Ph.D. programme 2016-17
(Odd Semester)

Applications are invited for admission to Ph.D. programme (Regular scheme and Visvesvaraya scheme, Special Manpower Development Program in VLSI (SMDP)-Visvesvaraya scheme) for the academic year 2016-17 at NITGoa.

The minimum academic eligibility criteria for applying to a programme in mentioned below. A higher short listing criteria (possibly different for different departments) may be set by the Department during scrutiny of applications depending on the departmental requirements, number and excellence of applicants. In addition to the minimum eligibility criteria, a mandatory eligibility criteria will be used for shortlisting the candidates (as listed). Therefore, merely satisfying the minimum eligibility criteria does not guarantee a candidate to be called for written test/interview and mere attending an interview does not guarantee a seat for admission.

Also a student applying for more than One Department will have to fill separate application forms.

Ph.D. programme (Discipline and Qualifications)

Engineering and Technology

Master's Degree in Engineering or Technology in the relevant discipline with a minimum 6.5 CGPA on a 10 point scale grading system or 60% marks in both Bachelor's and Master's levels from recognized Technical Institute or University. For **SC/ST** candidates a minimum 6.0 CGPA on a 10 point scale grading system or 55% marks.

Candidates will be considered for Ph.D. programme on the basis of:

- GATE score.

Humanities & Sciences (Chemistry, Physics, Mathematics and English)

Master's degree in Sciences or Humanities / M. Tech. in the relevant area with a minimum 6.5 CGPA on a 10 point scale grading system or 60% marks in both Bachelor's and Master's levels from recognized Institute or University. For **SC/ST** candidates a minimum 6.0 CGPA on a 10 point scale grading system or 55% marks.

Candidates will be considered for Ph.D. programme on the basis of:

- GATE score or CSIR/NBHM/UGC-NET qualified.

Indicative list of Broad Areas of Research

- **Computer Science and Engineering:** Hardware-Software co-design, Re-configurable computing, HPC application acceleration. Content Based Information Retrieval, Computer Vision, Machine Learning, Pattern Analysis, Virtual data center and Cloud computing, High speed wireless network, Performance evaluation of computer systems.
- **Electronics & Communication Engineering:** RF and Microwaves, Antennas, Communication theory, Wireless communication, Power line communication, Diversity combining, Multi-hop transmission, Smart-grid communication, Biomedical Signal Analysis and Processing, Signal and image processing, Assistive Technology, Machine Learning, Expert Systems, Multi-resolution Analysis like Wavelet Transforms, Time-frequency based Analysis, Finite Field Transforms and their application to Cryptography, Analog and mixed signal Circuits, Microelectronics and Embedded systems, Bio-Photonics, Point-of-Care Diagnostics, Nano devices and systems, Hybrid energy system, Terahertz Imaging/ Microwave Imaging.
- **Electrical & Electronics Engineering:** Power Systems, Control Systems, Power Electronics and Drives, Digital Signal Processing.
- **Humanities and Sciences**
 - **Chemistry:** Electron Paramagnetic Resonance spectroscopy.
 - **Mathematics:** Linear and Nonlinear Stability analyses of convective flows, Hydrodynamic Instabilities and Fluid Mechanics, Inverse Problems, Numerical Optimization, Partial Differential Equations, Finite Element Method, Mathematical Biology.
 - **Physics:** Photonics and Fiber optic Sensors.

Attention

Candidates MUST specify broad areas of research in the application form. Selection will be based on academic credentials, performance in the written test and interview. It is to be noted that interview shall be taken only for those who qualify in written test. Institute reserves the right to reject the application(s) if the faculty member is not available to guide the candidate in his/her proposed research area. Incomplete application forms and forms submitted after the last date specified will be rejected. Institute will not be responsible for any postal delay. Canvassing in any form will lead to rejection of application form. List of short-listed candidates for written test and interview will be uploaded on our Institute website. No separate intimation may be expected by the applicants. The candidates are required to see our website for fee structure and faculty expertise and are advised to visit our website regularly for the updates.

Scholarship/Assistantship

The selected candidates shall be entitled for scholarship/assistantship and HRA as per Govt. of India norms from time to time. Research scholars selected for the Ph.D. programme will have to complete the allotted course work within two years of joining Ph.D. programme and will be governed by Ph.D. rules and regulations of the Institute.

NOTE: Accommodation is NOT available for the Ph.D. scholars in the Institute hostel. However, accommodation is available on rent at an affordable cost within 2-4 Kms radius from the Institute.

Selection Procedure

The admission to Ph.D. Programme will be on the criteria given below:-

- a) Overall academic performance and written test conducted by the respective department.
- b) Performance in Interview (only for those who cleared written test).

All candidates selected for admission shall be required to deposit the requisite Institute fee and necessary original documents at the time of admission.

Details of Ph.D. Fee Structure for the year 2016-17 (Tentative)

Sl. No.	Semester Fee	First Year		Second Year		Third Year	
		I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem
1.	Tuition Fee (SC/ST students are exempted)	7500/-	7500/-	7500/-	7500/-	7500/-	7500/-
2.	Other Fee	4000/-		4000/-		4000/-	
3.	Group Insurance Coverage of Students	1086/-		1086/-		1086/-	
4.	Security Deposit (refundable)	4000/-					
5.	Institute Development Contribution-IDC (SC/ST Rs.1000/- instead of 4000/-)	4000/-					
6.	Alumni Association	1000/-					
7.	Admission	750/-					
	Total in 1 st Sem (for Gen, OBC)	22,336/-					
	Total in 1 st Sem (for SC/ ST)	11,836/-					

How to apply for admission to Ph.D. programme

The application form and other relevant information for admission to Ph.D. program may be downloaded from the Institute website: www.nitgoa.ac.in. Applications form, duly filled in, must contain a crossed Demand Draft of Rs. 500/- for General and OBC, and Rs. 300/- for SC/ST candidates. The DD should be drawn in favour of “**Director NIT Goa**” payable at **Ponda, Goa** and should reach, **NIT Goa, 403401** on or before **06.06.2016**.

Enclosures

The following documents (whichever applicable) arranged in the order given below should be enclosed along with the duly filled in application:

- i. One recent passport size photograph of the candidate.
- ii. Self-attested copy of GATE/UGC/CSIR/NBHM/NET qualified certificate.
- iii. Self-attested copy of Master's degree marks sheet & degree/provisional certificates of the qualifying examinations.
- iv. Self-attested copy of undergraduate degree certificate and marks sheet.
- v. Self-attested copy of certificate of matriculation/X class as the proof of age of the candidate.
- vi. Self-attested copy of Caste Certificate in case of SC/ST candidates from the competent authority (not below the rank of SDO/SDM/DC/DM/Tahsildar)
- vii. Self-attested copy of caste certificate in case of OBC candidate from competent authority (not below the rank of SDO/SDM/DC/DM/Tahsildar) indicating the status regarding creamy layer for the financial year ending 31st March 2016.
- viii. Self-attested copy of Experience Certificate
- ix. Research Proposal up to 1000 words should be attached with the application form.
- x. No Objection Certificate duly signed by the HoD/HoS in case of employee of NIT Goa.
- xi. Self-attested copy of credentials including AICTE recognized short-term courses attended, research publications, professional qualifications, awards and medals etc.
- xii. Demand draft towards application fee as per category for the candidate i.e. Rs. 500/- for General / OBC and Rs.300/- for SC/ST candidates.

(Incomplete/incorrect applications without required enclosures will not be considered).

NOTE: The envelope containing the application should be superscribed as "Application for full-time Ph.D. Programme (**Odd semester 2016-17**) for the Department of _____".

Legal Jurisdiction

All disputes pertaining to the counselling and admission for the Ph.D. programme of NIT Goa shall fall within the jurisdiction of Goa only.

Important Dates

- Newspaper advertisement and website advertisement by: **06.05.2016**
- Last date for receipt of duly filled Application form(s) **06.06.2016**
- Intimation regarding written test/interview shall to be posted on the Institute website.
- Date of written test/interview at NIT Goa: **04.07.2016 and 05.07.2016 (tentative).**
- Date of announcement of results: 06.07.2016.
- No separate interview letter/communication will be made to candidates individually.
- Visit institute website: www.nitgoa.ac.in regularly for more details and updates.

Disclaimer

The Institute reserves the right to make changes at any time without notice, changes in and additions to the regulations, conditions governing the admission, requirements, seats, fee and any other information, or statements contained in this information brochure.

ADDRESS FOR CORRESPONDENCE

**Assistant Registrar,
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Goa- India,
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Website: www.nitgoa.ac.in**

**-sd-
Director**