



Indian Institute of Technology (IIT) Goa

PhD Admissions for 2018-19 (Autumn Semester)

Important Information regarding PhD Selection Process

A. Dates for Selection Tests (to be held at IIT Goa):

S.No.	Department	Date
1.	Chemistry (CH)	31 st May-1 st June 2018
2.	Computer Science Engineering (CSE)	31 st May-1 st June 2018
3.	Electrical Engineering (EE)	31 st May 2018
4.	Mathematics (MA)	25 th May 2018
5.	Mechanical Engineering (ME)	24-25 th May 2018
6.	Humanities & Social Sciences (HSS)	8 th June 2018

(Please note that the selection dates for EE and HSS dept. have been changed. The new dates are marked in red above.)

All the shortlisted candidates should report at **Admin block, IIT Goa** by **9:00 AM** on the first day of their respective department dates (unless informed otherwise).

B. Department-wise Selection process:

1. Chemistry (CH)

The selection process will have only one round of interview. There will be no written exam.

2. Computer Science Engineering (CSE)

The selected candidates have to report between 10.00am-10.30am on 31st May. All applicants need to take a written test to be held at 11.30am on the same day. Those who clear the test need to attend interviews in the afternoon or the day after.

Written Test:

The written test consists of multiple-choice questions and/or fill in the blanks questions. The objective of the exam is to test the knowledge in basic mathematics (Discrete mathematics, Graph theory, Linear algebra, Probability, Calculus) and fundamental areas of Computer science (Data Structures, Algorithms, C/C++ Programming, Theory of Computation, Computer Architecture, Digital Logic, Operating Systems).

PhD Interview:

The objective of the interview is to ascertain the candidates deeper understanding of his/her areas of interest and his/her aptitude for research and independent thinking. The interview will cover different areas of computer science and mathematics but the candidates are expected to show deeper interest in one topic from basic mathematics and one topic from the following areas of computer science: Digital Systems Design, Digital Electronics, Microprocessor & Microcontrollers, Operating Systems, Theory of Computation, Algorithms, Artificial Intelligence, Machine Learning, Computational Complexity, Mathematical Logic

3. Electrical Engineering (EE)

The selection process will have two rounds. Round 1 is a written exam, which will be based on topics: *Analog Circuits*, *Digital Circuits*, and *Signals & Systems*. Candidates qualifying the written exam will appear for an interview in Round 2.

4. Mathematics (MA)

The selection process will have only one round of interview. There will be no written exam.

5. Mechanical Engineering (ME)

The selection process will have two rounds. Round 1 will be a written exam to test candidates' ability in Mathematics and in any one of the following streams: *Fluids & Thermal engg.*, *Solid mechanics & design*, *Manufacturing*, and *Industrial engineering*. Candidates qualifying the written exam will appear for an interview in Round 2.

6. Humanities and Social Sciences (HSS)

The selection process will have only one round of interview. There will be no written exam.