



REPORT ON
GATE 2021: UPDATES AND OPPURTUNITIES

29th August, 2020

ORGANIZED BY
ISA STUDENT SECTION- LDCE
DEPARTMENT OF
INSTRUMENTATION AND CONTROL
ENGINEERING,
L.D. COLLEGE OF ENGINEERING, AHMEDABAD

Platform: Microsoft teams

Date: 29th August ,2020

During this pandemic situation, many students were worried about their career and future plans. These COVID-19 situation has made students apathetic regarding their decisions and aspirations. A lot of students have a dream to crack the GATE examination and get good grades for future placements and education. To guide these students **ISA student section LDCE** and Instrumentation and control department, L.D. College of Engineering had organized a webinar on **GATE 2021: UPDATES AND OPPORTUNITIES** on Microsoft Teams platform dated 29th August 2020 at 11:30 AM.

More than 55 students of LDCE from various departments including Instrumentation and Control department, Electronics and Communication department, and Electrical department had taken the main benefit of this webinar. Along with the students, faculty advisor and head of the department Dr. Manish T. Thakker, Prof. Vinodkumar P. Patel (Associate Professor, Training and Placement officer), departmental faculties Mr. Harsh K. Shastri ,Mr. Sampan N. Shah, Ms. Vandana V. Patel also attended the webinar.

This webinar was mentored by Dr. Ravi V. Gandhi, Post. Doctoral Researcher, South Korea, Ph.D. in Control and Automation, B. Tech and M. Tech, Nirma University.

The session started with the recent changes that were made in GATE 2021 examination by IIT Bombay due to COVID-19. Further, it was followed by the GATE examination's importance for engineering students. The webinar was

majorly discussed for Instrumentation and control engineers. The future scope of an instrumentation and control engineer was discussed. Basic principles about Instrumentation and control engineering were discussed in detail. After this explanation, the latest syllabus and exam pattern for GATE examination was discussed in depth. The webinar concluded with the importance of GATE examination in different sectors like engineering jobs, Government Jobs, Campus placements and technical interviews, scholarships, etc. A Q & A session was organized so that the doubts regarding the session was solved. The whole session lasted for 1 hour with positive feedbacks.

Glimpses of webinar on GATE 2021: Updates and Opportunities

Mentor Dr. Ravi V Gandhi discussing Importance and Syllabus of GATE 2021 Examination

IMPORTANCE OF GATE-2021

- Engineering Jobs: PSUs (HPCL, NTPC, BARC, ISRO, IOCL, ... etc)
- Teaching & Research Jobs: JRF / SRF / Assistant Professor / Lecturer
- Campus Placements & Technical Interviews
- Government Scholarships: M.Tech / M.S / Ph.D / Post. Doc / Foreign Research
- International Recognition: Singapore, USA, Canada, Australia, U.K, etc.
- Interdisciplinary Research & Projects
- Helpful for securing high score in Government Examinations (ISRO, IPR, UPSC.)
- To become a Technocrat of Engineering & Technology
- 3 Years of GATE Score Validity

GATE-2021 SYLLABUS (IN)

- Section 1: General Aptitude (English + Aptitude): 15 Marks (10 Questions)
- Section 2: Engineering Mathematics: 13 Marks (out of 55 Questions)

Linear Algebra	Calculus	Differential Equations
Complex Variables	Probability & Statistics	Numerical Methods

- Section 3: Technical Subjects: 72 Marks (out of 55 Questions)

Digital Electronics	Circuits & Networks (CN)	Analog Electronics	Control Systems
Signals & Systems	Communication and Optical Instrumentation	Measurements	Sensors & Industrial Instrumentation
* PLC, DCS, SCADA Basics	* Electricity & Magnetism	* Electrical Machines	--

* Newly added topics for GATE 2021 & Onwards

Mentor Dr. Ravi V Gandhi discussing Scope of an Instrumentation and Control Engineer

1D

HS

1T

SCOPES : CONTROL ENGINEER

Control Scopes (Few):

- Lead / Lag
- PID
- State-Feedback
- Tuning Algorithms (Z-N)

Systems (Few):

- Electrical
- Mechanical
- Hydraulic