

## Registration

Registration fee: Rs. 2000/- +18% GST (Total Rs. 2360/-)

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## How to apply

1. Pay the registration fee by online transfer (as per the aforementioned account details).
2. Do online registration: <https://forms.office.com/r/0cqIRhbg9B>
3. Send the transaction receipt (details of payment) to [uday@iitg.ac.in](mailto:uday@iitg.ac.in)



## In the honor of Professor Amitabha Ghosh Lecture Series on Evolution of Classical Mechanics and Symposium on Engineering Pedagogy

March 5, 6, 12, (10 AM to 11 AM and 7 PM to 8 PM), March 13, 19 (10 AM to 12:30 AM and 7 PM to 8 PM) and March 20, 2022 (9 AM to 6 PM).

Organized by



Department of Mechanical Engineering  
Indian Institute of Technology Guwahati  
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India

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### About the event

Classical mechanics is an important subject in engineering and science curricula. However, hardly students are imparted any knowledge about how mechanics evolved since the time of Aristotle till special theory of relativity. As a result, course becomes monotonous. Main purpose of the event is to present the evolution of mechanics from ancient times to modern days with a brief history and biographies of major contributors to this great science. The other purpose is to have a symposium of engineering pedagogy for sharing the good pedagogical practices among engineering and science faculty. It is decided to dedicate this event to Professor Amitabha Ghosh, a veteran instructor of mechanics on his completion of 80 years of age.

This online event will comprise 12 lectures by Professor Amitabha Ghosh on evolution of classical mechanics. These lectures will be delivered on weekends for three weeks with two one-hour lectures at each first three weekend-days and three one-hour lectures on the fourth and the fifth weekend-days. On the last day (the sixth weekend day), there will be a symposium on engineering pedagogy with peer-reviewed contributory papers from the participants. Case studies are also welcome. The session will be coordinated by Prof. U.S. Dixit, who will provide useful suggestions to presenters. Proceedings of the events will be published by Springer with inclusion of selected papers.

The symposium keywords include but are not limited to:

- Effective teaching of science to engineering students
- Online teaching
- Virtual laboratory
- Educational toys and models
- Intellectual Property Rights (IPR)
- Publications and patents
- Teaching of Professional ethics
- Innovations in education

### ABOUT Professor Amitabha Ghosh

Prof. Amitabha Ghosh, former Director of IIT Kharagpur and former Professor and Head of Mechanical Engineering at IIT Kanpur (1971 to 2006), is currently working as an Honorary Scientist of the Indian National Science Academy, New Delhi and The National Academy of Sciences, India, Allahabad. He was born on December 3, 1941 in a remote village in Birbhum near to the Jharkhand border. After finishing his school education from the village high school in 1956 he received his ISc degree in 1958. He did his BE, ME and DPhil from Bengal Engineering College, Calcutta University, in 1962, 1964 and 1969, respectively. He received three Calcutta University Gold Medals for standing first class first among the students of all branches both at the Bachelors' and Masters' levels. He started his teaching career as a Lecturer in Mechanical Engineering at Bengal Engineering College in May 1965;

then he joined IIT Kanpur as an Assistant Professor in January 1971 and became a Professor in June 1975. He spent one and half years at Technical University, Aachen, Germany, (1977 -1978) as a Senior Fellow of the Alexander von Humboldt Foundation. Subsequently he visited the University many times as an AvH Fellow during 1980 to 2013. He served IIT Kharagpur as its Director from April 1997 to April 2002. His primary areas of professional research are Basic Mechanics, Kinematics & Mechanisms, Robotics and Advanced Manufacturing. Department of Mechanical Engineering at IIT Guwahati feels privileged to honor him on completion of his 80 years of age.

### Request for Participation

Faculty members and students are requested to register in the lecture series as well as symposium. Timings of the event have been planned to avoid clash with regular academic activities of the colleges. Papers (original research, review articles and case study) on pedagogy are also invited from participants; although the submission of papers is not mandatory. Full papers not exceeding 12 pages with single-spacing, 12 font size in Times New Romans of A4 sheet should be submitted in MS WORD format should be emailed to [uday@iitg.ac.in](mailto:uday@iitg.ac.in). Full paper will be peer reviewed. Authors will be required to submit revised version in the format to be intimated later. List of accepted papers with brief biography and photo of participants will be included in an e-Souvenir. Expanded version of the selected papers will be published by Springer.

### IMPORTANT DATES

Last date of Registration:	<b>February 15, 2022</b>
Last date for receiving full paper:	<b>March 6, 2022</b>
Review comments, latest by:	<b>March 15, 2022</b>
Last date of Submission of final paper:	<b>March 18, 2022</b>
Paper presentation:	<b>March 20, 2022</b>
Invitation to selected authors for expanded version:	<b>March 25, 2022</b>
Last date for receiving the expanded paper:	<b>April 30, 2022</b>