



## About the College

### Asansol Engineering College

Asansol Engineering College, -a self-financing institute was established in 1998 under the society of The Academy of Engineers (India). The College is approved by AICTE, New Delhi and Dept. of Higher Education, Govt. of West Bengal and affiliated to Maulana Abul Kalam Azad University of Technology (MAKAUT), West. The college is a joint venture between the JIS Group and the Techno India Group. It is situated at Asansol, Paschim Burdwan, West Bengal which is one of the largest Industrial belt of Eastern India. AEC offers eight B. Tech programmes, two M. Tech programmes along with BCA, BBA, and MCA in various disciplines. The institute was a participant in Technical Education Quality Improvement Program (TEQIP), an initiative of the Government of India. The institute has state of art laboratories, individual computing facility for all faculty members. All departments are active in research and various funded projects.

## About The Department

### Mechanical Engineering Department

The journey of Mechanical Engineering Department of Asansol Engineering College started in the year 2003, having present intake capacity of 60 in UG. The department is engaged in the advancement of learning and dissemination of technical knowledge to provide continuous industrial interaction to the students. Alumni of the department have been successfully placed in various renowned industries and academics. Department has promoted the students to participate in prestigious National & International competitions.



## AICTE- ISTE REFRESHER COURSE-2021-22

On

**Rapid Manufacturing: The Future  
Sustainable Manufacturing  
Technology**

**Date: 19/01/2022 - 25/01/2022**

**Organized By:**

**DEPARTMENT OF MECHANICAL  
ENGINEERING**

**ASANSOL ENGINEERING COLLEGE**

**Asansol, WB- 713305**

**Under the Sponsorship of  
Indian Society for Technical  
Education (ISTE) &  
AICTE, New Delhi**

**Course Coordinator**  
Dr. DEBASHIS SARKAR  
Asso. Prof. & HOD, ME  
[aecdeba.me@gmail.com](mailto:aecdeba.me@gmail.com) 07001320174



## Rapid Manufacturing: The Future Sustainable Manufacturing Technology

Rapid prototyping which can rapidly create physical prototypes along with virtual prototyping can be very effective in accelerating the product development process. It can increase visualization capability during the early phases of design by using rapid physical models. In this mass customization era of manufacturing Rapid prototyping, Additive Manufacturing, Generative Manufacturing, 3D Printing are synonymic to each other. CIM, FMS and Robotics helped manifold for the development of Rapid Manufacturing

### Course Objectives

1. To update the participants with state-of-the-art technologies in Rapid Prototyping.
2. To enable the participants to have experiential learning in 3D modeling, build-setup preparation, and 3D printing through hands-on sessions.
3. To enable participants to learn the industrial, real-life, and pedagogical applications of Rapid Manufacturing.
4. To empower the participants to offer a course on Additive Manufacturing technology at their respective institutions.

### Course Content

The course will focus on the following topics:

1. Theory, tools and techniques of Rapid Prototyping including 3D printing.
2. Sustainable and Green Manufacturing processes and Materials in 3D printing.
3. Process Capability analysis and Optimization in Manufacturing.
4. Research studies and case examples from different industries

## ORGANIZING COMMITTEE

**Patrons:** Mr. Taranjit Singh, MD, JIS Group, WB, Mr. Tapan Kumar Ghosh, Director, AEC, WB, Dr. Pratapsinh Kakasaheb Desai, President, ISTE

**Chairperson:** Prof. P. P. Bhattacharya, Principal, AEC, WB, Prof. Vijay D. Vaidya, Executive Secretary, ISTE

**Co-ordinator:** Dr. Debashis Sarkar, Asso. Prof. & HOD ME, AEC, WB

**Advisory Committee:** Dr. S. Halder, Registrar, AEC, WB, Mr. Atin Choudhury, Advisor (A & D) AEC, Dr. S.C. Panja, Prof. ME, JU, Dr. S.K.Paul, Prof. ME, IITG. Prof. N.R.Banerjee, Chairman, ISTE, WB section.

**Local Organizing Committee:** Dr.Srijan Paul, AP,, Mr. Anish Deb, AP, Dr. Santanu Datta, AP, Dr. Debabrata Das, AP, Mr.S.Goswami, AP, Dr.Rajan Sarkar, Asso. Prof, Mr. Sumanta Karmakar, AP., Dr. A.K. Mukhopadhyay, AP. Dr. A. Upadhyay, Asso. Prof., Dr. Dibyendu Paul, AP, Mr. B.Saha, AP,, Mr. S.P.Kobi,AP, Mr. B.Mondal,AP, Mr. B.Roy,AP, Mr .A.Kar,AP, Dr. K.Pobi, AP Mr.S.S. Bala,AP, Mr.S.Nath,AP, Mr.K.Niogi, AP, Mr. T.K.Das, AP, Mr. S.S.Mondal, AP, Mrs. K.Banerjee, AP, Dr. Pintu Pal, AP, Mr. Robin Kr. Agarwal AP, Mr. A. Chakraborty, AP, .Dr. R.P.Singh, AP, Dr. A.Chakraborty. AP, Dr. G.S. Panda, Asso Prof, Asansol Engineering College.

### Eligibility

All faculty members from AICTE approved technical institutions, Universities, and Colleges are eligible to attend this course.

E-certificates will be provided to the participants with 80% attendance and have scored minimum 60% marks in the test as per the norms.

## Resource Persons

Resource persons will be from Jadavpur University and other reputed engineering institutions, like IIT, NIT and Industry.

## Application and Fee

Registration link as follows:

<https://forms.gle/KSu2WYrfLyed2Hj38>

The program is free and no fee will be charged from participants.

For Communication contact,

**Dr Debashis Sarkar,**

**Course Co-ordinator,**

Asso. Prof. & HOD, ME

Department of Mechanical Engineering  
Asansol Engineering College, Asansol

713305

Phone- 7001320174

[aecdeba.me@gmail.com](mailto:aecdeba.me@gmail.com)

[debashis.aeclms@jisgroup.org](mailto:debashis.aeclms@jisgroup.org)