

NATIONAL WORKSHOP ON RAPID MANUFACTURING PROCESSES (RAMP 2019)

ABOUT THE COLLEGE

PSG College of Technology, a premier institution for engineering education in India, started in 1951 has developed into a centre for advanced studies and research in several areas of engineering, technology, applied sciences and management. The college is autonomous since 1978 and is ISO certified. The laboratories, workshops and library of the college are all well equipped with modern facilities suitable for learning and research.



ABOUT DEPARTMENT OF PRODUCTION ENGINEERING

As manufacturing activities play a major role in the development of the country, PSG College of Technology envisaged the need for trained manpower in manufacturing and thus the undergraduate programme in Production Engineering was started in the year 1975. Subsequently, department grew in several dimensions of academic excellence with time. Department offers three PG programmes in the area of Manufacturing, Product Design and Digital Manufacturing. All the laboratories of the department are approved for carrying out research, leading to Ph.D Degree (full time and part time) by Anna University, Chennai. The department offers consultancy in manufacturing processes, design and testing a range of products.

ABOUT THE WORKSHOP

Global competition, mass customization, accelerated product obsolescence and continued demands for cost savings are forcing companies to look for new ways to improve their business processes. Rapid Manufacturing is one of the new ways of operation which improves the business processes by compressing the product development time. Rapid Manufacturing technology has changed the phase of design and manufacturing processes in various sectors involving aerospace, defense, automobile, medical fields and consumer products. Because of the wide applications of rapid manufacturing technologies, it has become the most powerful and the best tool for the industrial revolution in product development domain. This workshop will discuss the evolution of Rapid Manufacturing technologies like additive and subtractive manufacturing processes which have improved the product development activities. The workshop will focus towards research projects and research avenues in the context of rapid manufacturing.



DATE: 31.08.2019

CONVENER

Dr. M. Senthilkumar, HoD i/c

ORGANISED BY

Department of Production Engineering
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Coimbatore - 641 004

ORGANISING SECRETARIES

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SESSION HIGHLIGHTS

- Hands-on training in the prototyping of products using 3D Printing Machine and Subtractive Rapid Prototyping Machine.
- Demonstration on Rapid Free Forming (RFF) of sheet metals.
- Visit to PSG TIFAC Core (Product Development Centre)

OBJECTIVE

Objectives of this workshop are to

1. Introduce the participants, the various Rapid Manufacturing Technologies that are available, focusing towards its importance in industrial applications.
2. Impart knowledge on the selection of the most appropriate Rapid Manufacturing Technology available for selected applications.
3. Present the recent developments in additive and subtractive manufacturing technologies.

TOPICS COVERED

- Technology overview of additive and subtractive manufacturing.
- Model generation methods and CAD data processing techniques.
- Additive manufacturing processes, systems and materials.
- Additive manufacturing of precision components in plastics, metals, bio-materials and quality control issues.
- Aerospace, defence and automobile applications of additive manufacturing technologies.
- Recent advances and scope for research in rapid manufacturing technology.

REGISTRATION

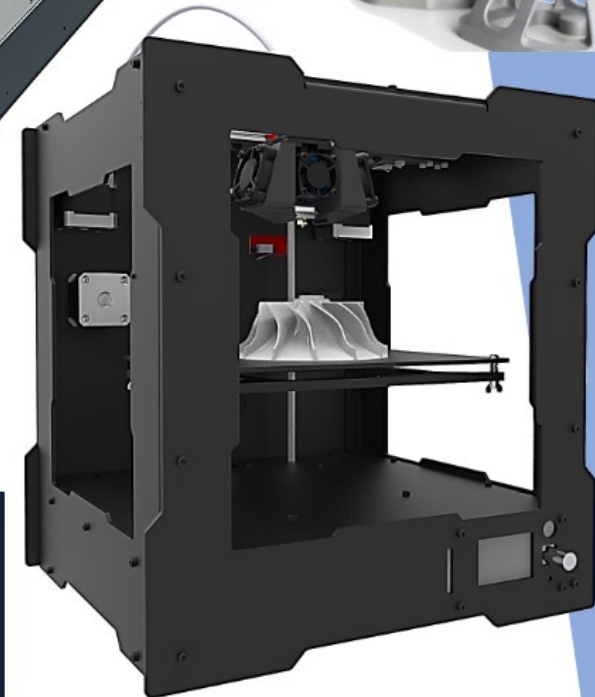
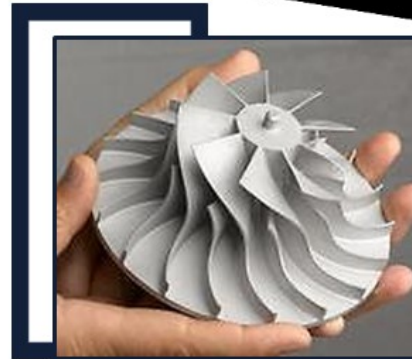
Registration fee for students of Engineering Colleges* : Rs. 1,500/- (inclusive of service tax)

Registrations can be made online along with the Demand Draft for registration fee drawn in favour of "PSGCNCE" payable at Coimbatore.



SCAN THIS QR CODE FOR ONLINE REGISTRATION

- Registration fee includes workshop kit, course material (CD), refreshments and working lunch.
- Registrations has to be completed on or before 29/08/2019.
- * This programme is only for engineering college students and the total number of participants is limited to 30. Accommodation for workshop participants are available in College Hostel on chargeable basis.



HOW TO REACH PSGTECH

PSGTECH campus is located at Peelamedu, Coimbatore. The campus is about 6 km from Coimbatore Railway Junction, 1.2 km from Peelamedu Railway Crossing, 5.4 km from Coimbatore International Air Port, and 4.3 km from Gandhipuram Bus Stand.

