



NSS COLLEGE OF ENGINEERING, PALAKKAD, KERALA
Government Aided Engineering College,
Affiliated to APJ Abdul Kalam Technological University and Approved by AICTE



AICTE SPONSORED ONLINE SHORT TERM TRAINING PROGRAMME (STTP) SERIES

ON

RAPID PROTOTYPING AND DIGITAL MANUFACTURING

ORGANISED BY

DEPARTMENT OF MECHANICAL ENGINEERING

(Accredited by NBA)

SERIES I – 02nd November 2020 to 07th November 2020

No Registration Fee

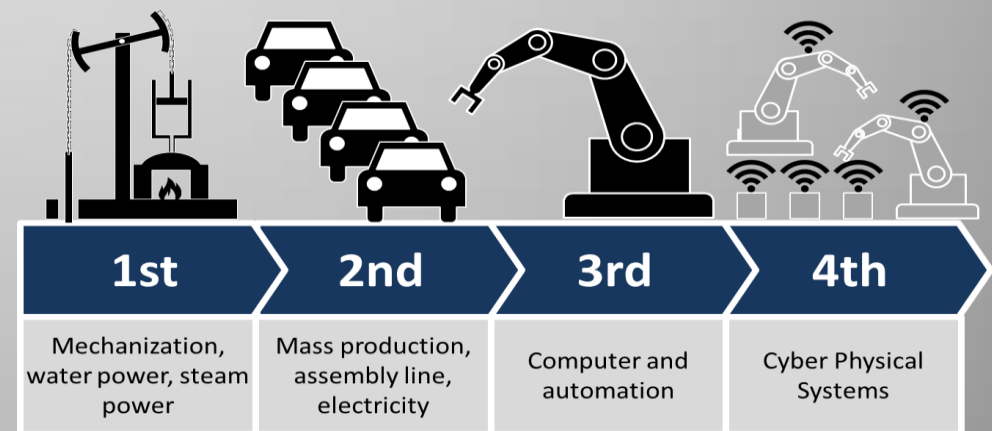
E- Certificate will be provided

Last date for registration: 30th October 2020

Notification of acceptance: 31st October 2020

For Registration:

<https://forms.gle/N14p9RwXaySFxc6P8>



Vision of the Department:

To develop the department at par with global standards of excellence in Mechanical Engineering producing self motivated knowledgeable and technically competent engineers, meeting the needs of industry and society

Mission of the Department:

1. To provide quality education in Mechanical Engineering for building competent professionals of global standards.
2. To mould self-motivated Mechanical Engineers catering the industrial needs.
3. To inculcate ethical values among Mechanical Engineers meeting the scientific, technological and entrepreneurial needs of the society.

ABOUT THE INSTITUTION

Bharatha Kesari Late Sri. Mannath Padmanabhan, the immortal founder of Nair Service Society and a great social reformer had an immensely profound sense of promoting Technical education in Kerala while he designed this beautiful and evolving campus of NSS College of Engineering in 1960. NSS College of Engineering, a premier engineering educational institute in Kerala, managed by Nair Service Society, approved by AICTE and affiliated to APJ Abdul Kalam Technological University has completed 60 years of existence in the map of technical education of the Nation. It offers 6 undergraduate and 5 post graduate programmes in the disciplines of engineering out of which five UG Programmes (ME, CE, EEE, ECE & ICE) are accredited by National Board of accreditation. The institute strives to groom self-motivated professionals of global standards through quality education to meet the scientific and technological needs of the society. Nestling among verdant foothills of Western Ghats, the institution is a tranquil and serene setting for higher education.

ABOUT THE COURSE

The competition in the world market for manufactured services and products has intensified tremendously in recent years. It has become important, if not vital, for new products to reach the market as early as possible, before the competitors. **Rapid prototyping** is a group of techniques used to quickly fabricate a scale model of a physical part or assembly using three-dimensional computer aided design (CAD) data. Construction of the part or assembly is usually done using 3D printing or "additive layer manufacturing" technology.

Digital Manufacturing is a manufacturing process, with which the support of technologies such as virtual reality, computer networks, rapid prototyping and database, is based on customer demand so as to analyse, organize and recombine the product information, process information and resource information, implement the product design and function simulation as well as rapid prototyping, and then to perform rapid production to meet customer demand and quality standards. As a new discipline of manufacturing science, it synthesizes various manufacturing disciplines and represents the mainstream development direction of Advanced Manufacturing Technology.

Who can apply?

Faculty members of Engineering colleges approved by AICTE, Research scholars, PG scholars, Professionals working in industry and R&D who are genuinely interested in the area of Rapid Prototyping and Digital Manufacturing can apply for this STTP.

Organising Committee

Chief Patron:

Shri. G Sukumaran Nair, Chairman, Governing Body, NSSCE, Palakkad

Patron:

Dr. T Sudha, Principal, NSSCE, Palakkad

Chair Person:

Dr. Jolly K G, Professor & Head, Department of Mechanical Engineering, NSSCE, Palakkad

Coordinators:

Dr. Aneesh Kumar P, Assistant Professor

Prof. Dipin Kumar R, Assistant Professor

Prof. Sreejith N K, Assistant Professor

Department of Mechanical Engineering, NSSCE, Palakkad

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OBJECTIVES OF STTP

The participants of this course will be able to judge the importance of Rapid Prototyping & Digital Manufacturing and its dominant role in Global Product Development and Innovation. In the first series of STTP, participants will be given **Introduction to Rapid Prototyping and Digital Manufacturing**, different processes and science behind it. Participants will have an insight of current research trends in this field and will help the research scholars and faculty to carryout innovative research. The course will help to explore the broad range of additive manufacturing theory & practice along with applications including Biomedical & Bio-manufacturing, Aerospace, Consumer Products, and Creative Artistry to mention a few. Participants will be able to illustrate the fundamentals of digital manufacturing science and its architecture. Moreover it will be a great platform to interact with the eminent faculties of premier institutes like IITs and NITs and industrial experts.

Certification

E – Certificate will be provided to all the participants who attend the programme and score minimum 60% marks in the online test that will be conducted at the end of the STTP.



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Our eminent speakers



Prof. Ashish Kumar Nath
IIT Kharagpur



Prof. P M Pandey
IIT Delhi



Prof. Asim Tewari
IIT Bombay



Prof. M. Duraiselvam
NIT Trichy



Prof. Arvind Kumar
IIT Kanpur



Prof. S Kanmani Subbu
IIT Palakkad



Prof. D Kesavan
IIT Palakkad



Prof. Varun Sharma
IIT Roorkee



Prof. Muvvala Gopinath
IIT Hyderabad