## IMPORTANT DATES

**Registration up to**

*10th September 2020*

**Confirmation of Participation:**

*12th September 2020*

**Commencement of Course**

*14th September 2020*

**Registration Process:**

- One can register for the course as per the specified process of AICTE Training and Learning (ATAL) Academy.
- There is no registration fee for the course.
- Earn E-certificates for 80% attendance and 60% score in test and its mandatory

**Registration Link:**

Follow the link:

https://forms.gle/p9ENqvVqyFW4rC248



Scan me for Registration

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## ORGANISING COMMITTEE

**PATRON**

**Dr. Vilasrao J. Kadam**

Director, Bharati Vidyapeeth Educational Complex, Navi Mumbai

**PRINCIPAL**

**Dr. S. D. Jadhav**

principal@bvcoenm.edu.in

**COORDINATOR**

**Prof. Pramod R. Suryavanshi**

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(https://www.mimeo.com/blog/3d-printing-changing-the-world/)

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**All India Council for Technical Education (AICTE) ATAL Academy Sponsored**

**Five Days Faculty Development Program**

**on**

**"3D PRINTING AND DESIGN"**

**14th September to 18th September 2020**

<u>Organized By</u>

**Bharati Vidyapeeth College of Engineering**

Sector-7, C.B.D., Belpada, Navi Mumbai
Phone: (022) 27572140, 27571074
Fax: (022) 27573196

## ABOUT INSTITUTE

Bharati Vidyapeeth College of Engineering was established in August 1990 with the vision "Social Transformation through Dynamic Education". The mission is to advance education in professional courses and to promote excellence in technical education and research. The institute is approved by AICTE, New Delhi, affiliated to University of Mumbai and NBA Accredited. The Institute runs degree courses in Chemical Engineering, Computer Engineering, Electronics and Telecommunication Engineering, Instrumentation Engineering, Information Technology, Mechanical Engineering. With excellent teaching faculties and infrastructure, the institute caters to the technical manpower requirement of the surrounding industrial zone. The Institute prepares students to meet the ever increasing technological and social changes with its tradition of self-discipline, hard work.

## OBJECTIVES OF AICTE ATAL ACADEMY

• To plan and help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging areas.
• To set up an Academy which will plan and help in imparting quality technical education in the country.
• To support technical institutions in fostering research, innovation and entrepreneurship through training.
• To stress upon empowering technical teachers & technicians using Information & Communication Technology.
• To utilize SWAYAM platform and other resource for the delivery of trainings.

• To provide a variety of opportunities for training and exchange of experiences.
• Such as workshops, Orientations, learning communities, peer mentoring and other faculty development programs.
• To support policy makers for incorporating training as per requirements.

## OBJECTIVES OF COURSE:

The Course "3D PRINTING AND DESIGN" is to create awareness about the state-of-the-art technologies in 3D Printing. The course helps to understand the concepts and applications of additive manufacturing along with the process techniques of 3D printing. The course is aimed at giving industrial and practical exposure and enhancing the expertise and skills involved in the operation use of 3D Printing / Additive manufacturing with the aid of CAD packages and for those who want to provide training to others in this area. It gives exposure and on hand experience in the field of 3D Printing techniques and CAD packages.

## WHO WILL BE BENEFITED?

This program mainly intended for those who wish to gain expert knowledge in the area of Additive Manufacturing (3D Printing) and Design. Thus, the faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/ Technicians/ Participants from Industry etc.) and staff of host institutions can get the benefit of the course.

## OUTCOMES OF THE COURSE:

On completion of the course, one should be able to learn:
• Understand the various processes involved in Additive Manufacturing.
• Classify and select proper rapid prototyping and reverse engineering techniques for specific technical applications.
• Use of CAD modelling software required in 3D printing and Design.
• Apply and demonstrate the 3D Printing Processes and its applications

## COURSE CONTENTS

The course will have lectures by experts, practicals/demonstrations spread over five days of the course.
• Additive Manufacturing
• 3D Printing Revolution
• 3D CAD Modeling
• Rapid Prototyping Processes (FDM, LOM, SLS, etc.)
• 3D Printing Hardwares and softwares
• Trends and Future of 3D Printing
• 3D Printing Applications
• 3D Printing Practical Demonstrations and Hands-on-experience

## RESOURCE PERSONS

• The course will be conducted by eminent expertise from Industry and Academia.
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## COURSE SCHEDULE

• Duration: 14th September – 18th September 2020
• Timing: 10 am to 5.00 pm