



APPENDIX XV

TECHNICAL ACTIVITY CARRIED OUT BY CENTRES:

Name of Centre / Overseas Chapter:	Institution of Engineers(I) Solapur Local Centre IV Floor, 3 North Kasaba, Near Laxmi Bank, Shivaji Chowk, Solapur – 413001.		
Title of Activity:	One Day Faculty Development Workshop On “ 3D Printing ”In Collaboration with The Institution of Engineers (India) – Solapur Local Centre		
Activity under Divisional Board	NON-FUNDED		
Date:	17 Feb.2024	Venue:	ONLINE - A.G. Patil Institute of Technology, Solapur (M.S.)

Brief Report

The institute had organized One Day Faculty Development Workshop On “ 3D Printing ” In Collaboration with The Institution of Engineers (India) – Solapur Local Centre.for knowledge up gradation of Faculty in learning in education context. On 17.02.2024, The FDP was inaugurated by Dr. V. V. Potdar sir, Dr.S.B.Gadwal (HOD-ME), Prof.S.V.Kulkarni (HOD-CSE), Dr.R.V.Darekar (HOD-E&TC), Prof. Mrs. T. D. Maslekar (HOD-Civil), Prof. R.M. Pantoji (HOD-Gen. Sci. & Engg.).

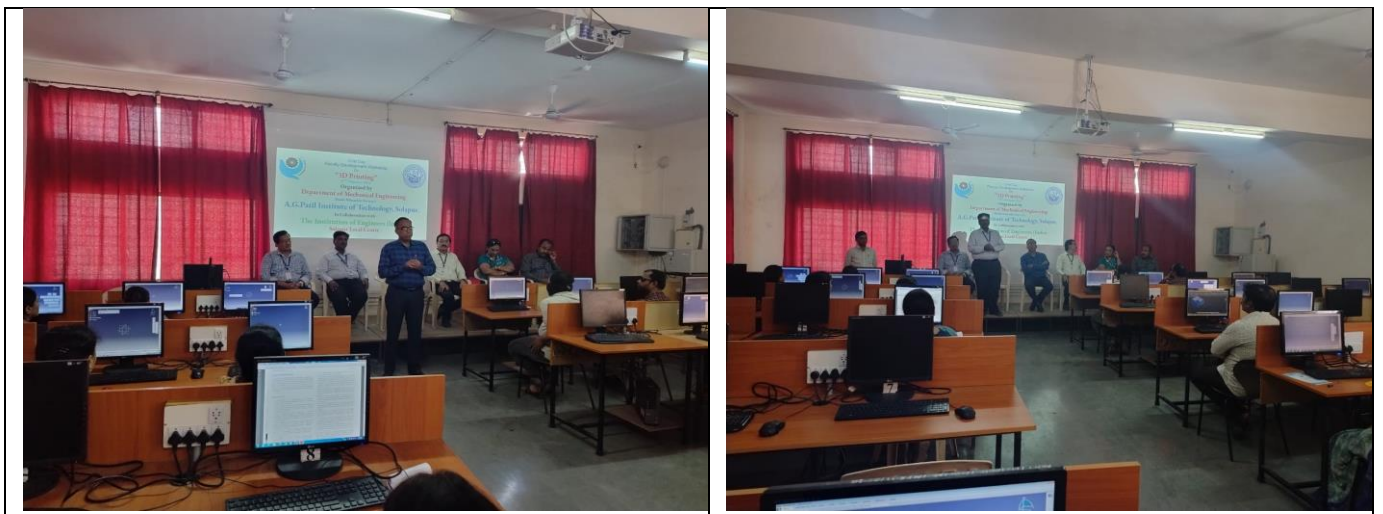
The workshop was divided in two sessions, in first session Prof. A. R. Malekar has presented and explained the students about Designing and Solid Modeling part & about background of how 3D printing technology evolved. They also explained about the various types of 3D printing technology available in market and how they differ in printing object. Also it was shown the recent trends or developments in the world regarding 3D printing Technology. Apart from design, how 3D priming technology is used in range of areas like manufacturing, Health care & Medicines, Education, Fashion, construction industry and job creation is explained.

Sir has also explained to students regardless of the specific application, 3D printers offer rapid turnaround times when it comes to taking a digital concept, and placing the physical results of that concept into a user’s hand. As the technology surrounding it improves, 3D printers will become increasingly versatile. They’ll be used for an ever growing number of tasks, in a manner similar to the last two decades of digital expansion via personal computers. Imagine third world village

printing vital medical equipment on demand. Aid workers never being without the specific supplies they need, a result of carrying portable 3D printers with them into combat zones and disaster areas. Imagine hospitals being able to print organs on demand instead of waiting for a donor. 3D printers have virtually limitless potential as the technology driving them improves. They also offer typical consumers endless opportunity for product customization. They are capable of producing the type of customization that's unattainable through mass manufacturing. Imagine never needing to break in a new pair of shoes again. You also won't have to worry about selecting the shoe size that's the closest fit – instead, you'll be able to scan your feet and design a shoe that fits them perfectly

In the Second session, Prof. S. A. Deshpande has demonstrated on 3D printer which Institution got under the scheme of MORDROBS by 3D printing a small component in printer. While demonstration was going on simultaneously sir has also explained about type of raw material required for 3D printing. Also sir has explained that depending upon the raw material how the product quality varies and also cost of the component.

We got a great support from Respected Principal Dr. V. V. Potdar sir along with IEI, Solapur, HOD's and Teaching and Non Teaching staff of all the Departments to conduct this workshop successfully.



**Dr.V.V.Potdar (Principal, AGPIT Solapur), Dr.S.B.Gadwal (HOD, AGPIT Solapur)
During Inauguration Function**



Prof. A. R. Malekar (Assist. Prof.,AGPIT Solapur) Guiding on 3D Modelling Software.



Prof. S. A. Deshpande (Assist. Prof.,AGPIT Solapur) Guiding on 3D Printing Machine.