ABOUT GOVERNMENT POLYTECHNIC KOLHAPUR

Government Polytechnic Kolhapur is one of the leading diploma engineering institutes in Kolhapur and is recognized as **the first academically autonomous government polytechnic in Maharashtra**. Established in 1961, the institute is renowned for its high-quality technical education, experienced faculty, modern laboratories, and strong industry-oriented curriculum.

The institute offers diploma programs in several disciplines, including: -
Civil Engineering,
Mechanical Engineering
Electrical Engineering
Electronics and Telecommunication Engineering,
Information Technology,
Metallurgy Engineering

Institute has a spacious campus featuring academic buildings, laboratories, workshops, hostel facilities, and a dedicated Training and Placement Cell. Three of its programs have received three times NBA accreditation, showcasing the institute's commitment to maintaining high academic standards and quality education.

CHIEF PATRONS

Hon'ble Dr. Vinod Mohitkar
Director, Directorate of Technical Education, M.S. Mumbai.
Hon'ble Dr. Pratapsinh Desai
President, ISTE

PATRONS

Hon'ble Dr. Pramod Naik
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Hon'ble Mini Goyal
Leader APAC, Honeywell Academy, Pune
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Joint Director DTE RO Pune
Hon'ble Dr. Dhanpal Kamble
Joint Director, DTE Mumbai

CONVENOR

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Principal, Government Polytechnic, Kolhapur
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Lecturer in ENTC Engg., Co-PI (ESDM) Lab

ISTE approved **one Week**
Faculty Development Programme
On

"3D Printing and Additive Manufacturing using SolidWorks (3DP-AM)"

Jointly Organized by

Center of Excellence (COE)

GOVERNMENT POLYTECHNIC KOLHAPUR

&

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MAY 18 -22, 2026

Center of Excellence (COE) –Digitalization through Simulation

The main objectives of the Center of Excellence are as follows:

1. To plan and facilitate the delivery of high-quality technical education across the country.
2. To support technical institutions in fostering research, innovation, and entrepreneurship by providing training in various emerging fields.
3. To emphasize empowering technical educators through the use of design and engineering simulation software.
4. To assist policymakers in integrating training that aligns with industry specific requirements.

The Center of Excellence (CoE) on **Digitalization through Simulation** is a specialized facility and initiated by DTE at Government Polytechnic Kolhapur during 2026. Its aim is to promote advanced learning, research, innovation, training, and industry collaboration within a specific field of technology or expertise. The CoE enriched with three labs :

- *Engineering Simulations lab* - for enhancing practical knowledge in *Solid works, Abaqus software's* to virtual product development.
- *3D Printing and Additive Manufacturing lab* - for Supporting rapid prototyping and product development activities using *Fusion 360 and Solid works software.*
- *Electromagnetic Semiconductor Display Manufacturing (ESDM) lab* - for supporting practical training on technical skills related to VLSI, embedded systems, PCB design, and microelectronics etc. using *Cadence Software*.

ABOUT THE PROGRAMME

This programme provides fundamental and practical knowledge of 3D Printing and Additive Manufacturing using SolidWorks software. Participants learn 3D modeling, product design, assembly creation, and preparation of models for additive manufacturing. The programme covers various 3D printing technologies such as FDM, SLA, and SLS along with materials used in modern manufacturing. Participants gain hands-on experience in creating solid works models, converting them into STL files, slicing, printer setup, and prototype development. The programme also introduces basic engineering simulation concepts for validating printed components. It helps participants understand rapid prototyping, product development, and industrial applications of additive manufacturing technologies.

A **Faculty Development Programme (FDP)** on SolidWorks offers important academic, technical, and industrial benefits for faculty members and educational institutions. This Programme improves teaching effectiveness by equipping faculty to provide practical, industry-oriented training in SolidWorks, product modeling, and engineering analysis.

ABOUT THE RESOURCE PERSONS

Experts from Honeywell Automation India Private Ltd, Pune, and other industrial specializing in 3D Printing using SolidWorks and Fusion 360 software, are invited to serve as resource persons.

PROGRAMME CONTENT

- Design 3D printable components using Solid work tools.
- Understand additive manufacturing technologies.
- Prepare and optimize models for 3D printing.
- Perform basic engineering simulations.
- Operate and troubleshoot 3D printers.
- Develop engineering prototypes and functional models

REGISTRATION

For registration, please use the link given below.

https://forms.gle/mTq79HBUX6uKK3XV7

The fee for ISTE Faculty Development Programs (FDPs) is Rs. 1000 /- per participant.

Interested candidates are encouraged to register at the earliest, as the programme is limited to only 30 participants.

The FDP will be conducted in offline mode and will include hands-on practice. Certificates will be issued by ISTE to participants who attend at least 80% of the program and achieve a minimum score of 60% on the test administered at the end of the FDP.

WHO CAN APPLY –

Faculties from Polytechnic, Engineering Institutes, Industry personnel, Startup innovators, Makers and entrepreneurs.

ISTE approved one Week
Faculty Development Programme
On
"3D Printing and Additive Manufacturing using SolidWorks (3DP-AM)"
PROGRAMME SCHEDULE

Date / Time	10.00 to 11.30	11.30 to 11.45	11.45 to 13.00	13.00 to 14.00	14.00 to 15.30	15.30 to 15.45	15.45 to 17.00
18-05-2026	Inauguration	Tea Break	Introduction to Solid Works software	Lunch Break	Introduction to Sketching and part design	Tea Break	Design 3D printable components using Solid work tools.
19-05-2026	Introduction to Additive manufacturing technologies		Practical applications of part design and modelling		Basics of part assembly		Basics of part assembly
20-05-2026	Assembly tools and its applications		Assembly tools and its applications		Prepare and optimize models for 3D printing		Prepare and optimize models for 3D printing
21-05-2026	Perform basic engineering simulations.		Develop engineering prototypes and functional models.		Introduction to Additive manufacturing processes		FDM technology and application.
22-05-2026	Material optimization in programming in 3D printing		Hands on 3D printers		Hands on 3D printers		Online Test and Feedback Valedictory session