



CENTRE FOR ADVANCED STUDIES

DR. A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY



2-Days Offline Hands on Training/Workshop

on

Application of 3D Printers

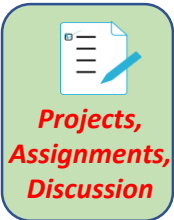
Dates: 7 April – 8 April, 2022



Highlights



Course Completion Certificate



Projects, Assignments, Discussion



Experts led Training



10+ hours Offline training



Free Registration – Limited seats
Last Date of Registration: 31st March, 2022

Registration Link:
<https://cas.res.in/workshopreg.html>



Eligibility: B. Tech. . Tech (4th Year ME and its allied branches)

Infrastructure Available: FDM and polyjet 3D Printers and solidworks design software

Mode: Offline

Number of Seats: 30

Coordinator

Dr. Rabesh Kumar Singh

Assistant Professor
Centre for Advanced Studies
Dr. A.P.J. Abdul Kalam Technical
University, Lucknow

System Support

Mr Anurag Chaubey

Contents

- ✓ Introduction to Additive Manufacturing.
- ✓ Different Additive Manufacturing Technologies.
- ✓ Polymer based printers: FDM.
- ✓ Polymer based printers: polyjet.
- ✓ Application of FDM, Polyjet and other polymers based printers
- ✓ Hands on training on FDM and Polyjet based, printing of an component/object, post processing, visual/dimensional analysis.





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SCHEDULE

Day	Session	
	Forenoon	Afternoon
Day 1	<p>Introduction to Additive Manufacturing: Basics of Additive Manufacturing, Classification of 3D printers, polymer based printers, specification of Fused deposition modelling (FDM) 3D printers, digital file preparation, file conversion, controlling and operation of FDM printer.</p>	<p>Hands-on Session 1- Installation of Fused deposition modelling (FDM) 3D printers, Generation of 3D geometrical files in Design Software's, user interface, command and control from software, file conversion, Demonstration and Hands on training on FDM 3D printer, post processing, visual/dimensional analysis.</p>
Day 2	<p>Generation of 3D geometrical files and printing of components: Introduction to other polymer based printers, specification of ployjet based 3D printers, digital file preparation, file conversion, controlling and operation of polyjet printers.</p>	<p>Hands-on Session 2- Installation of ployjet 3D printers, Generation of 3D geometrical files in Design Software's, user interface, command and control from software, file conversion, Demonstration and Hands on training on polyjet 3D printer, post processing, visual/dimensional analysis.</p>



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