



# POORNIMA

## COLLEGE OF ENGINEERING

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### **A Report on Six Days Short Term Training Programme (STTP)**

**TITLE AND DURATION:** AICTE Sponsored Six Days Short Term Training Programme (STTP) On “Eclectic Research Trends in Manufacturing (Part -3) (15-20 March, 2021)

**SPONSORS:** AICTE sponsored Under AICTE Quality Improvement Scheme

**ORGANIZERS:** Department of Mechanical Engineering, Poornima College of Engineering, Jaipur.

**OBJECTIVES:** The event aims to provide a forum to exchange views, ideas of eclectic trends in the field of manufacturing and industry.

#### **EXPECTED OUTCOMES:**

- To provide research-oriented discussion along with theoretical concepts, which shall facilitate the understanding of process through practical implementation in area of manufacturing and industry.
- Bringing together the experts of newer technologies, enthusiasts, and faculty to discuss the Latest issues and possible solutions in area of manufacturing.
- Identifying Industry challenges and sensitize about latest trends and technologies in area of manufacturing.

  
**Dr. Mahesh Bunde**  
B.E., M.E., Ph.D.  
Director  
Poornima College of Engineering  
ISI-0, FIICO Institutional Area  
Sitapura, JAIPUR

## BROCHURE / POSTER / LEAFLET / FLYER:

### Six Days Short Term Training Programme (STTP) under AICTE-AQIS on Eclectic Research Trends in Manufacturing (Part-3)

**March 15-20, 2021**

#### REGISTRATION FORM

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Department: \_\_\_\_\_

Institute: \_\_\_\_\_

Institute Address: \_\_\_\_\_

Mobile No.: \_\_\_\_\_

E-mail: \_\_\_\_\_

**Declaration of the Candidate**

I declare that the details furnished are true to the best of my knowledge and I agree to abide by the rules and regulations governing the conduct of the AICTE sponsored programme

Place: \_\_\_\_\_ Signature of Participant: \_\_\_\_\_

**Sponsorship Certificate**

Mr/Ms/Dc \_\_\_\_\_ is an employee of our Institute and is hereby sponsored by us. He/She will be permitted to attend the course if selected.

Seal & Signature of Director / Principal

#### REGISTRATION AND FEE PARTICULARS

- There is no registration fee.
- The STTP is open to all faculties and research scholars from Universities/AICTE approved institutions.
- Registration for the program may be done by filling the registration form online via: <https://tinyurl.com/STTP-ERTM-3-2021>
- All the sessions will be conducted online only.
- After completion of the program, test will be conducted.
- E-certificates will be issued to those participants who have attended the program and qualify the test.

#### RESOURCE PERSONS

The resource persons will be from reputed institutions and industries in the area of manufacturing such as IITs, IITDMs, NITs, and other premier institutes.

#### IMPORTANT DATES

Last date for Registration: **March 11, 2021**  
 Intimation of selection by mail: **March 13, 2021**  
 STTP duration: **March 15-20, 2021**

#### CORRESPONDENCE

**Dr. Yashpal**  
 Associate Professor, Department of Mechanical Engineering  
 e-mail: [yashpal.kaushik@poornima.org](mailto:yashpal.kaushik@poornima.org) • ID : +91-9466748006



**POORNIMA**  
 COLLEGE OF ENGINEERING  
 ISI-6, RIICO Institutional Area, Sitapura, Jaipur  
[www.pce.poornima.org](http://www.pce.poornima.org)

### Six Days Short Term Training Programme (STTP) under AICTE-AQIS on Eclectic Research Trends in Manufacturing (Part-3)

**March 15-20, 2021**



**Sponsored by**



**All India Council For Technical Education Under AICTE Quality Improvement Schemes (AQIS)**

**Organized by**

Department of Mechanical Engineering



**POORNIMA**  
 COLLEGE OF ENGINEERING  
 Affiliated to RTU, Kota • Approved by AICTE & USC under 2(f) • Accredited by NBA

### POORNIMA COLLEGE OF ENGINEERING

Poornima College of Engineering (PCE), established as a brand of Technical Education in the year 2000, has its own glorious legacy of leading the young engineers to the mammoth sky of success. Its accomplishments forecast its journey through the hardships and its triumph over them one after another. PCE left no stone unturned since its establishment in turning the glorious vision into unbelievable reality providing the platform for knowledge and research and their practical implementations in different engineering professional prospects. Glorious glimpses of PCE:

- Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 lac square feet
- Affiliated to RTU, Kota & approved by AICTE, New Delhi
- The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME, IT, CIV) and two at PG level (CS & VLSI)
- The only institution permitted by RTU to admit RN/PQ/Gulf students & designated as centre of excellence by IBM
- An excellent institution building its rapport in all sectors of education, research and development

#### ABOUT THE DEPARTMENT

The Department of Mechanical Engineering of PCE came into existence in the year 2004 with an alignment of the Department's evolution with key events and technological advances for the betterment of society and nation. At present, it has the intake of 120 students providing all the amenities of infrastructure related to knowledge, research, experiments and training of multiple professions. Therefore, the Department of Mechanical Engineering has renowned scholars as the faculty members for imparting the knowledge. The Department organizes various workshops, seminars, expert talks and presentations at national and international level. It has been taking initiatives for the versatile enhancement of the students through the technical, cultural and sport tests since its establishment.

#### ABOUT THE PROGRAM

Recent developments in advance engineering materials and their applications in aerospace, defense, nuclear reactor, medical and electronics industries have significantly transformed the manufacturing industries.

Advance manufacturing industries are facing challenges of creating miniature features of complex shapes in advance engineering materials having superior properties. Further to produce products with minimal harm to the environment, at competitive price, customized features and quick response to the change in demand is also essential requirement of industries. Moreover to elect the appropriate manufacturing process for processing of specific advanced materials, optimum parameters are required. However meet such challenges and accelerate the growth of manufacturing especially in the campaign of "MAKE IN INDIA". Manufacturing industries are moving towards intelligent manufacturing processes/systems. These processes/systems are advanced manufacturing processes, sustainable manufacturing and smart manufacturing technologies. Therefore, Engineering Graduates need to know about the eclectic research trends in manufacturing.

#### TOPICS TO BE COVERED

- Smart Manufacturing: Opportunities & Challenges
- Additive Manufacturing
- Smart Materials
- Advanced Robotics and Automation
- Industrial IOT, Machine Learning
- Role of Blockchain in Manufacturing
- Industrial Perspective of Smart Manufacturing
- Virtual Hands-on Practice on Rapid Manufacturing

#### OBJECTIVES OF STTP

- To provide an exposure to the participants regarding current scenario in manufacturing techniques.
- To provide the knowledge of cutting edge researches and developments carried out/observed by the Eminent Speakers in advance manufacturing domains, for products having immediate industrial applications for self-reliance of the Country.

#### PATRON

**Dr. Mahesh Bundeale**  
 Principal & Director  
 Poornima College of Engineering, Jaipur

#### ADVISORS

<b>Mr. Pankaj Dhemla</b> Vice Principal, PCE, Jaipur	<b>Dr. Rekha Nair</b> Dean, First Year, PCE, Jaipur
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#### CONVENOR

**Dr. Narayan Lal Jain**  
 Professor & HoD, ME, PCE, Jaipur

#### COORDINATOR


**Dr. Yashpal**  
 Associate Professor, ME, PCE, Jaipur

#### CO-COORDINATORS

<b>Dr. Surendra Kumar Saini</b> Associate Professor ME, PCE, Jaipur	<b>Dr. Akshay Jain</b> Assistant Professor ME, PCE, Jaipur
<b>Mr. Shailendra Kasera</b> Assistant Professor ME, PCE, Jaipur	<b>Mr. Sanjay Kumawat</b> Assistant Professor ME, PCE, Jaipur

#### PCE ORGANIZING COMMITTEE

<b>Dr. Mohammad Israr</b> Dr. Rahul Sen Dr. Sagar Kumar Dr. Rajkumar Satankar Dr. Bhuvnesh Sharma Mr. Amit Mandal Mr. Bhavesh Devra Ms. Asha Kumawat Mr. Dhananjay Kumar Mr. Ashwani Kapoor Mr. Buddhi P. Panwar Mr. Rakesh Sharma Mr. Kalpit Jain Mr. Rahul Sharma	<b>Professor, ME</b> Assoc. Professor, ME Assoc. Professor, ME Assoc. Professor, ME Asst. Professor, ME Asst. Professor, ME Asst. Professor, ME Asst. Professor, ME Asst. Professor, ME Asst. Professor, ME Asst. Professor, ME Asst. Professor, ME Asst. Professor, ME
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**Dr. Mahesh Bundeale**  
 B.E., M.E., Ph.D.  
 Director  
 Poornima College of Engineering  
 ISI-6, RIICO Institutional Area  
 Sitapura, JAIPUR



## PROGRAM SCHEDULE:

The poster is for a Six Days Short Term Training Programme (STTP) under AICTE-AQIS on ECLECTIC RESEARCH TRENDS IN MANUFACTURING (Part-3), held from March 15-20, 2021, at the Department of Mechanical Engineering, Poornima College of Engineering, Jaipur. It cordially invites attendees to the Inaugural Session on Monday, March 15, 2021, at 11:30 am onward. The poster features a grid of 18 circular portraits of resource persons, including Dr. Neeraj Saxena (Chief Guest), Prof. S P Harsha (Guest of Honor), and Dr. Mahesh M. Bunde (Director & Principal). It also lists contact information for Dr. Narayan Lal Jain (HoD, ME, PCE) and Dr. Yashpal (Coordinator, STTP), along with Zoom and Facebook Live links.

**Six Days Short Term Training Programme (STTP) under AICTE-AQIS on ECLECTIC RESEARCH TRENDS IN MANUFACTURING (Part-3)**

**March 15-20, 2021**

**Department of Mechanical Engineering, Poornima College of Engineering , Jaipur**  
*Cordially invite you to Inaugural Session*

**Resource Persons**

 <b>Dr. Neeraj Saxena</b> Chief Guest Advisor-II AICTE New Delhi	 <b>Prof. S P Harsha</b> Guest of Honor Professor, IIT Roorkee	 <b>Dr. Mahesh M. Bunde</b> Director & Principal PCE, Jaipur	 <b>Ar. Rahul Singhi</b> Director Poornima Group, Jaipur	 <b>Mr. Pankaj Dhemia</b> Vice Principal PCE, Jaipur
 <b>Prof. Pradeep Kumar</b> IIT Roorkee	 <b>Prof. P M Pandey</b> IIT Delhi	 <b>Prof. S P Harsha</b> IIT Roorkee	 <b>Prof. P M Pathak</b> IIT Roorkee	 <b>Prof. R S Walia</b> PEC Chandigarh
 <b>Dr. Sachin Kumar Mangla</b> University of Plymouth UK	 <b>Dr. Ravi Kant</b> IIT Ropar	 <b>Dr. C. S. Jawalkar</b> PEC Chandigarh	 <b>Dr. Suman Kant</b> PEC Chandigarh	 <b>Dr. Ankur Gupta</b> IIT Jodhpur
 <b>Dr. Atul Kumar Sharma</b> IIT Jodhpur	 <b>Dr. Gunjan Soni</b> MNIT Jaipur	 <b>Dr. Anup Malik</b> MNIT Jaipur	 <b>Mr. Ashish Varshney</b> L3D Creations	
 <b>Dr. Narayan Lal Jain</b> HoD, ME, PCE	<b>Monday, March 15, 2021, • Time: 11.30 am onward</b>			 <b>Dr. Yashpal</b> Coordinator, STTP

To join the Inaugural Session on

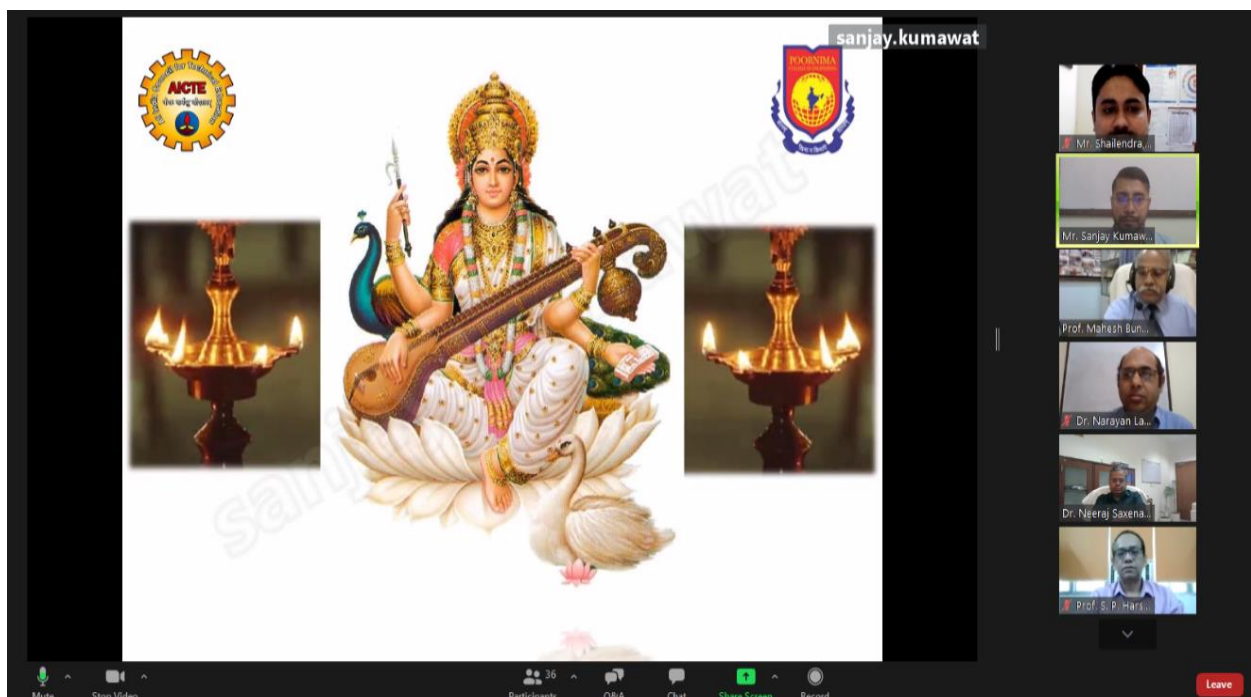
**zoom** **f LIVE**

## ABOUT THE STTP:

Recent developments in advance engineering materials and their applications in aerospace, defense, nuclear reactor, medical and electronics industries have significantly transformed the manufacturing industries. Advance manufacturing industries are facing challenges of creating miniature features of complex shapes in advance engineering materials having superior properties. Further to produce products with minimal harm to the environment, at competitive price, customized features and quick response to the change in demand is also essential requirement of industries. Moreover to elect the appropriate manufacturing process for processing of specific advanced materials, optimum parameters are required. However meet such challenges and accelerate the growth of manufacturing especially in the campaign of “MAKE IN INDIA”. Manufacturing industries are moving towards intelligent manufacturing processes/systems. These processes/systems are advanced manufacturing processes, sustainable manufacturing and smart manufacturing technologies. Therefore, Engineering Graduates need to know about the eclectic research trends in manufacturing.

## INAUGURAL SESSION:

Programme was initiated by a formal inaugural ceremony in the esteemed presence of Prof. Neeraj Saxena, Adviser-II of AICTE New Delhi; Prof. S. P. Harsha, Professor, IIT Roorkee; Dr. Mahesh Bundeale, Director & Principal, Poornima College of Engineering, Jaipur, Expert speakers of STTP and other dignitaries of the institute. After inaugural ceremony; 02 expert sessions were conducted on the first day of STTP.





## Poornima College of Engineering - Activity Report

Zoom Webinar


You are viewing Dr. Akshay Jain, Assistant Pro... 's screen

View Options

90:18:33 View

sanjay.kumawat

### Felicitation of Chief Guest



The slide features a central image of a trophy with the text "AICTE Sponsored Six Days STTP On Emerging Research Trends in Manufacturing (Part-3) Mar 15-20, 2021" and "Chief Guest Dr. Neeraj Saxena". To the left is a portrait of Dr. Mahesh Bunde, Director & Principal, Poornima College of Engineering, Jaipur. To the right is a portrait of Dr. Neeraj Saxena, Adviser-II, Institutional Development Cell, AICTE, New Delhi.

**Dr. Mahesh Bunde,**  
Director & Principal,  
Poornima College of  
Engineering, Jaipur

**Dr. Neeraj Saxena**  
Adviser-II,  
Institutional Development Cell,  
AICTE, New Delhi

Participants: 39

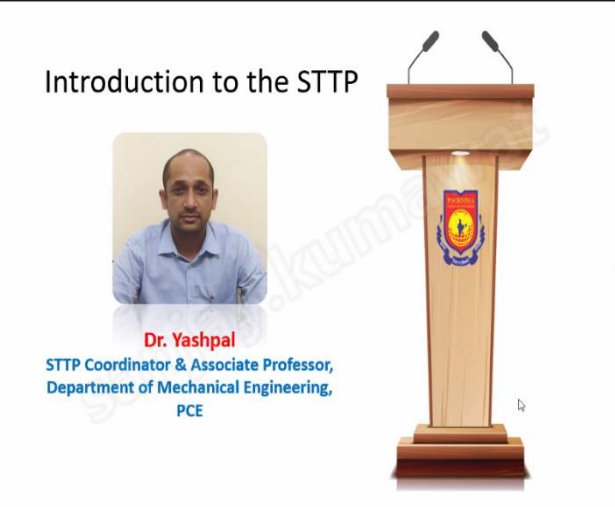
Q&A Chat Share Screen Record

Unmute Stop Video

Mr. Shalendra Katera, Assistant Professor...  
Mr. Sanjay Kumawat, Assistant Professor...  
Dr. Surendra Saini, Associate Professor...  
Prof. Mahesh Bunde, Principal & Director...  
Dr. Narayan Lal Jain, Professor & Head, ME...  
Dr. Neeraj Saxena, Adviser-II, IDC, AICTE, N...  
Prof. S. P. Harsha Professor, IT Roorkee  
Dr. Yashpal, Associate Professor, ME, P...  
Dr. Akshay Jain, Assistant Professor, ME...  
Dr. Raj Kumar Satankar

Mr. Shalendra Katera, Assistant Professor...  
Mr. Sanjay Kumawat, Assistant Professor...  
Dr. Surendra Saini, Associate Professor...  
Prof. Mahesh Bunde, Principal & Director...  
Dr. Narayan Lal Jain, Professor & Head, ME...  
Dr. Neeraj Saxena, Adviser-II, IDC, AICTE, N...  
Prof. S. P. Harsha Professor, IT Roorkee  
Dr. Yashpal, Associate Professor, ME, P...  
Dr. Akshay Jain, Assistant Professor, ME...  
Dr. Raj Kumar Satankar

### Introduction to the STTP



The slide features a portrait of Dr. Yashpal, STTP Coordinator & Associate Professor, Department of Mechanical Engineering, PCE, next to a podium with the Poornima College of Engineering logo.

**Dr. Yashpal**  
STTP Coordinator & Associate Professor,  
Department of Mechanical Engineering,  
PCE

Participants: 38

Q&A Chat Share Screen Record

Unmute Stop Video

Mr. Shalendra Katera, Ass...  
Mr. Sanjay Kumawat, Assie...  
Dr. Surendra Saini, Associa...  
Prof. Mahesh Bunde, Principa...  
Dr. Narayan Lal Jain Profe...  
Dr. Neeraj Saxena, Adviser-...  
Prof. S. P. Harsha Profess...  
Dr. Yashpal, Associate Profes...

## **DETAILS OF RESOURCE PERSONS:**

### **CHIEF GUEST**

**Prof. Neeraj Saxena**



Prof. Neeraj Saxena, is serving as Advisor-II, Institutional Development Cell, AICTE, New Delhi. He is on deputation from Technology Information, Forecasting & Assessment Council (TIFAC), India's technology think-tank, where he has served for over 18 years.

Prof. Neeraj Saxena was heading the Resource Cell, Horizon Scanning Unit & Sugar Technology Unit of TIFAC. He was member of the team that prepared Technology Vision 2035 for the country. He was deeply involved in preparing a roadmap for Education as part of Vision 2035 exercise, first ever foresight initiative undertaken for the sector in the country.

As a part of the team implementing projects emerging out of Technology Vision 2020 (released by TIFAC in 1996), between 2000 and 2010, Prof. Saxena piloted the activities of Mission REACH (Relevance & Excellence in Achieving new heights in educational institutions), a major initiative to reorient the higher science & technical education and make it 'relevant' to industries. He was instrumental in establishment of 35 TIFAC-Centres Of Relevance & Excellence (COREs) ever since this Mission got underway on October 4, 2000.

Prof. Saxena got his doctoral degree in Physics for his work in the area of Acoustic Remote Sensing & its application to Air Pollution, carried out at the National Physical Laboratory, New Delhi. He was involved in establishing country's first indigenous Doppler Sodar capable of remotely profiling wind and turbulence in the lower atmosphere.



## GUEST OF HONOR

**Prof. S. P. Harsha**



Prof Harsha has completed Post Doc Fellow under US Defense Project at Villanova University, Philadelphia, USA, 2006 – 07 and PhD from Bits Pilani in 2004. His area of interests are Vibrations & Control, Fault Diagnosis and Prognosis of High Speed Machinery, CNT based Mass Sensors, Human Vibration & Dynamics of FGM Plate.

He has published 121 papers in International Journals and 97 papers in National and International journals. He has also written four book chapters. He completed 07 Sponsored Research & International Collaborations Projects and 20 consultancy projects. Under his supervision, 17 students have completed their PhD and 58 students M.Tech.

He organized 12 short term courses at IIT Roorkee and developed the three courses on Solid Mechanics, Vibration Control and Dynamics of Mechanical Systems under NPTEL (MHRD Scheme). He has two copy rights.

## EMINENT SPEAKERS OF THE STTP& THEIR BRIEF PROFILE



Prof. Pradeep Kumar



Prof. Pradeep Kumar, Indian Institute of Technology Roorkee, has an outstanding academic. He had obtained Bachelor of Engineering in Industrial Engineering in 1982 and Master of Engineering in Production Engineering (Gold Medalist) in 1989. He had received Ph.D. in 1994. He has earned all the above degrees from University of Roorkee (Now, IIT Roorkee). During 1996, he was a Visiting Assistant Professor in the department of Industrial and Manufacturing System Engineering, West Virginia University, U.S.A. He had also served the Department of Industrial and Manufacturing Engineering, Wayne State University, U.S.A. as Visiting Faculty during 1998-1999. He had been a Visiting Professor in the Department of Industrial System Engineering, at AIT Bangkok, in the years 2010 and 2018. He had served the Department of System Engineering, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, as Visting Professor. (2013-2014). He also did serve the Delhi Technological University as Vice Chancellor (Aug 2014-Sept 2015).

Prof. Pradeep Kumar has more than 30 years of experience in teaching, research, and consultancy at IIT Roorkee, West Virginia University U.S.A, Wayne State University U.S.A, AIT Bangkok, KFUPM, Saudi Arabia. He had taught a wide spectrum of courses related to Industrial Engineering & Production Engineering He has supervised 38 Ph.D. theses (Awarded), 9 Ph. D theses are in progress; 95 M.Tech dissertations, 83 M.Tech projects and 50 B.Tech projects. He has published / presented 643 research papers in International Journals (338); Proceedings of International and National Conferences (305). He has completed 53 consultancy projects of various organizations and 20 sponsored research projects. 03 Sponsored Projects are in progress. 02 Patents awarded, and 03 patent disclosures.

Prof. Pradeep Kumar has received a number of prizes and honours. He was honoured with an Outstanding Teacher Award at IIT Roorkee two times, in the year, 2005, and 2009. He has received 4 best paper/case studies prizes for his papers published in Journals and conference proceedings. He has organized 4 national and 1 international conferences at IIT Roorkee and has been honoured to be a member in the advisory board of many professional societies and editorial member of many journal of repute. He is a fellow of World Confederation of Productivity Sciences, Canada.

Prof. Pradeep Kumar has wide administrative experience as Vice Chancellor, DTU, Delhi (2014-2015), Dean, Finance & Planning (2010-2012), Head, Department of Mechanical & Industrial Engineering (2007-2009), Chairman, Joint Entrance Examination (JEE) 2009, Organizing Vice Chairman JEE (2008), Coordinator, Educational Technology Cell (2004-2005), Chairman Graduate Aptitude Test in Engineering (GATE, 2006, 2007) and Vice Chairman GATE (2005), Vice Chairman PG Academic



(2005), Coordinator Workshop, Coordinator of Production and Industrial Engineering, Warden of Students Hostels and many other responsibilities both at department as well as at Institute level.

Prof. P. M. Panday



Prof. P. M. Pandey is Professor at Department of Mechanical Engineering, IIT Delhi. Earlier to this, he has worked in Harcourt Butler Technological Institute, Kanpur. He was awarded M. Tech in 1995 & Ph.D in 2003 from IIT Kanpur. He has 26 years of teaching experience. He has successfully guided 27 Ph.Ds and another 13 Ph.Ds are in progress. Sir has guided 34 Masters Students. He has 16 Patents, which includes Orthosis for clubfoot, Design of elbow prosthesis, fabricating more accurate SLS prototypes, Tailoring properties in rapid prototypes etc. He has successfully completed 08 sponsored funded projects and 04 funded projects are in progress. He has also successfully completed 06 consultancy projects. He has published more than 153 research papers in peer reviewed journals. He has published more than 50 research papers in international and conferences and published 06 book chapters. His areas of interest include CAD/CAM, Finite Element Method, Optimization, Rapid Prototyping and Tooling, Manufacturing Science.

He has recorded on lecture on 'Tolerance Analysis' for IGNOU which was broadcasted live as well as it would be broadcasted later. Sir is also the Editorial Board Member of The Rapid Product Development (RPD) Magazine endorsed by RP Society of India, French RP Association, Portuguese RP Association, Standard and Industrial Research Malaysia. Sir is also the reviewer of various reputed journals such as International Journal of Advanced Manufacturing Technology, Journal of Materials Processing Technology and International Journal of Manufacturing Research etc.

Prof. P. M. Pathak



Prof. P. M. Pathak is Professor, Department of Mechanical and Industrial Engineering, IIT Roorkee. He was awarded Ph.D in 2005 from IIT Kharagpur in Space Robotics and M.Tech from IIT Kanpur. He has 27 years of teaching experience and 5 years of Industrial Experience. He has successfully guided 10 Ph.Ds and another 08 Ph.Ds are in progress. He has guided 40 Masters Students. He has successfully completed 12 funded projects (including ISRO, DST, DRDO, SPARC, MHRD). He has completed 6 Consultancy projects with various industries. He has published more than 115 research papers in peer reviewed journals and international conferences. He has written 01 book and 03 book chapters. He is also having MOOC course in Modelling and Simulation of Dynamic Systems runned by Swayam NPTEL Platform.

He has wide administrative experience for chairman GATE 2016 to 2018. He is reviewer of Various National & International Journal. He has an illustrious, diverse and rich experience in the fields of academics, research and industry. His Area of interest is Space Robotics, Solid Mechanics & Design. He is Member of Various Professional Bodies like International Federation for the Promotion of Mechanism and Machine Science Technical committee for Multi Body Dynamics, Association of Machines and Mechanisms (AMM) Robotic Society of India (RSI)

Prof. R S Walia



Prof. R. S. Walia is Head & Professor, Department of Production and Industrial Engineering, Punjab Engineering College, Chandigarh. Earlier to this, Prof. Walia has also worked in Delhi Technological University, Delhi and Guru Nanak Dev Engineering College, Ludhiana. Prof. Walia was awarded PhD from IIT Roorkee.

Prof. Walia has 20 years of teaching experience. Prof. Walia has successfully guided 14 Ph.Ds and another 06 Ph.Ds are in progress. Prof. Walia has guided 45 Masters Stud



### ***Poornima College of Engineering - Activity Report***

successfully completed 09 funded projects (including NASA Great Moon Buggy Race-2011 & 2012). Prof. Walia has published more than 150 research papers in peer reviewed journals and international conferences. Prof. Walia has written 02 books.

His areas of interest include advanced manufacturing processes, FEM, and industrial engineering. Prof. Walia has an illustrious, diverse and rich experience in the fields of academics, research and industry. He had the post of Head of Training and Placement at Delhi Technological University, Delhi. Prof. Walia has won many awards for their excellent work in academic as well as for administrative work.

### **Dr. Sachin K Mangla**



Dr. Sachin is working as a Faculty of Knowledge Management and Business Decision Making, University of Plymouth, United Kingdom. Dr Sachin is working in the field of Green and Sustainable Supply Chain and Operations; Industry 4.0; Circular Economy; Decision Making and Modeling. He has a teaching experience of more than five years in Supply Chain and Operations Management and Decision Making, and currently associated in teaching with various universities in UK, Turkey, India, China, France, etc. He is committed to do and promote high quality research. He has published/presented several papers in reputed international/national journals (International Journal of Production Economics; International Journal of Production Research; Production Planning and Control; Business Strategy and the Environment; Journal of Cleaner Production; Annals of Operations Research; Transportation Research Part – D; Transportation Research Part – E; Renewable and Sustainable Energy Reviews; Resource Conservation and Recycling; Information System Frontier; Management Decision; International Journal of Logistics Research and Applications; Benchmarking an International Journal; Industrial Data and Management System; International Journal of Quality and Reliability Management) and conferences (POMS, SOMS, IIIE, CILT - LRN, GLOGIFT). He has an h-index 35, i10-index 65, Google Scholar Citations of around 4000.

He is involved in editing couple of Special issues as a Guest Editor in Production Planning & Control: The Management of Operations, and Resources, Recycling and Conservation, Annals of Operations Research, Journal of Resource Policy, Journal of Cleaner Production, and 'Technological Forecasting and Social Change' on various issues of 'Industry 4 and Circular Economy' and Green and Sustainable Supply Chains Performance Improvement' and 'Food Supply Chains' and 'Industry 4.0, Cleaner Production, Circular Economy and Ethical Business Development'. Recently, he has also received a

**Poornima College of Engineering - Activity Report**

grant as a PI from British Council - Newton Fund Research Environment Links Turkey/UK - Circular and Industry 4.0 driven sustainable solutions for reducing food waste in supply chains in Turkey. He is also working with USERC (Uttarakhand Science Education & Research Centre), Govt. of Uttarakhand, India for managing food waste in Circular Economy. He is also a professional member of Indian Institution of Industrial Engineers (India); OPERATIONAL RESEARCH SOCIETY OF INDIA; Society of Operations Management (SOMS); Multiple Criteria.

**Dr. Ravi Kant**



Dr. Ravi Kant is an Assistant Professor in the Department of Mechanical Engineering, IIT Ropar. Prior to joining IIT Ropar, he was working as an Assistant Professor at College of Engineering Pune. He received his Bachelor degree in Mechanical Engineering from Maharshi Dayanand University, Rohtak (Haryana). He completed his M.Tech. from Department of Mechanical Engineering, IIT Guwahati with a specialization in "Computer Assisted manufacturing". He worked on the Investigation on Formability of Adhesively Bonded Sheets during his M.Tech. project. He also obtained his doctorate from IIT Guwahati. During PhD, he worked on laser forming process. His PhD work includes experimental studies, numerical simulations, soft-computing modeling and optimization. After PhD, he worked on inverse estimation of unknown parameters and laser assisted adhesive joining of metal to polymer sheets. His research interests include laser based manufacturing, modeling and optimization of modern manufacturing processes, transmission welding, adhesive joining, inverse estimation, ultra-high speed machining, etc.

**Dr. C.S. Jawalkar**



Dr. C.S. Jawalkar is currently working as an Associate Professor in Production and Industrial Engineering Department at Punjab Engineering College (Deemed University to be University) Chandigarh. Earlier to this, he has worked in an MNC, as a "Manager-Production" in ISPL, B.E., M.E., Ph.D.



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Polyhedron Group, India from 1996-2003. Sir has 17 years of Teaching and 07 years of Industrial experience. He has completed his B.E from Karnataka University in 1996 after that sir has done MBA degree in the specialization with Marketing Management and M.Tech. from Production Engineering specialization. Sir has completed his Ph.D., from IIT Roorkee from the department of Mechanical and Industrial Engineering in the topic of Advanced Manufacturing “Electro Chemical Discharge Machining”. He has successfully guided 04 Ph.Ds., submitted one and another 03 are in process. He has guided 30 Masters Students. He has published more than 80 research papers in reputed International and National Journals and Conferences. He has written 05 books and 06 book chapters (including one book chapter in Tata M/c. Graw Hill, USA). His areas of interest includes: Advanced Manufacturing, Supply Chain Management, Composites and Machining processes.

**Dr. Suman Kant**



Dr Suman Kant is an Associate Professor in Production and Industrial Engineering Department at Punjab Engineering College (Deemed to be University) Chandigarh. Sir is an Associate Dean Faculty Affairs also at Punjab Engineering College Chandigarh. He did his M.Tech and Ph.D; both degrees from IIT Roorkee. He has over 17 years of Teaching and Research experience. He has guided 07 Ph.D and 53 M.E students. Presently he is guiding 07 Ph.D and 02 M.Tech students. He has over 60 publications in various international and national journals. Sir has published a no. of papers in various reputed national and international conferences. His area of interest includes Experimental design, Quality control, Composite materials, Continuous casting and Teaching Learning. Sir is also a NBA Co-ordinator of Production and Industrial Engineering Department of PEC Chandigarh from last 10 years.

**Dr. Anup Malik**



Dr. Anup Malik is Assistant Professor in the Department of Mechanical Engineering.

  
**Dr. Mahesh Bunde**  
B.E., M.E., Ph.D.  
Director  
Poornima College of Engineering  
ISI-6, FIICO Institutional Area  
Sisupura, JAIPUR

**Poornima College of Engineering - Activity Report**

Institute of Technology Jaipur, Rajasthan. He has received his Master of Engineering and Ph.D. in Mechanical Engineering from Punjab Engineering College, Chandigarh, India. His area of research is Advanced Machining Processes. He has published 25 research papers in various international and national journals & conferences. He has published 03 book chapters in international books. Currently he is guiding PhD students in advanced machining area. He is a member of various profession societies as well. He is also reviewer of various international and national journals.

**Dr. Ankur Gupta**



Dr. Ankur Gupta is presently an Assistant Professor at the Indian Institute of Technology Jodhpur. He received his Ph.D. degree in Mechanical Engineering from the Indian Institute of Technology (IIT) Kanpur and M. Tech. from the Indian Institute of Technology Varanasi. He served as Assistant Professor at IIT Bhubaneswar for three years before joining IIT Jodhpur. As foremost credentials, he has over 50 research contributions including a patent, various international journal papers, book chapters, a co-edited book, and over 20 invited talks/presentations across the globe. His research work was presented in several international conferences held in the USA (MRS, California), Canada, Indonesia, China as well as in various prestigious institutes within the nation. He got selected by DST to participate in the “2nd BRICS Young Scientist Conclave” held at Zhejiang University, China in 2017. He received the “ISEES Young Scientist Award-2017” and “IEI Young Engineer Award 2020” from the Institution of Engineers (India) in the Production division and nominated for the “Distinguished Alumni Award” from his alma mater in 2020.

**Dr. Atul Kumar Sharma**



Dr. Atul Kumar Sharma is an Assistant Professor, Mechanical Engineering Department, IIT, Jodhpur. He has completed his PhD from Indian Institute of Technology Roorkee, India. He did his M. Tech. in Mechanical Engineering from Motilal Nehru National Institute of Technology, Allahabad, India. Delhi. He has received INSPIRE Faculty Award, Department of Science and Technology, Government of India.

**Poornima College of Engineering - Activity Report**

(2019), Technion Post-Doctoral Fellowship, Technion-Israel Institute of Technology, Israel (2019), Gold Medal, Motilal Nehru National Institute of Technology Allahabad (2016) and Best Paper Award, International Conference on Smart Engineering Materials (ICSEM), Bengaluru (2016). He is Reviewer of various reputed International Journal like Smart Materials and Structures, Journal of Micromechanics and Microengineering, Nonlinear Dynamics, Bioinspiration & Biomimetics, Modelling and Simulation in Materials Science and Engineering and Sādhanā.

His research interests span the broad area of computational solid mechanics. The specific research interests include: Mechanics of Soft Active Materials, Finite Element Methods for Coupled Field Problems, Stability Analysis and Control of Electrically Driven Mechanical Structures, Wave Propagation in Soft Active Composite Materials, Topology Optimization.

**Dr. Gunjan Soni**



Dr. Gunjan Soni, Assistant Professor, Mechanical Engineering Department, Malaviya National Institute of Technology, Jaipur. He has completed his PhD from Birla Institute of Technology and Science, Pilani, Rajasthan. He did his M. Tech. in Industrial Engineering from Indian Institute of Technology, Delhi. His research area is Optimization in Supply chain management, Blockchain, Agent based modelling, Multi-plant scheduling.

Dr. Gunjan Soni, receive two International Workshop Funding:

1. An Advanced Course on Reliability-based Robust Product Design from USA worth amount of \$8000 in 2019.
2. Circular Manufacturing System from UK worth amount of \$8000 in 2020.

Dr. Gunjan Soni conducted 14 national workshops. He has guided 7 PhDs and 05 PhDs are going on.

**Mr. Ashish Varshney**



Mr. Ashish Varsney, CEO , L 3D Creations. Sir Has completed his Master's in Electrical Engg. B.E., M.E., Ph.D.

  
**Dr. Mahesh Bunde**  
B.E., M.E., Ph.D.  
Director  
Poornima College of Engineering  
ISI-6, FIICO Institutional Area  
Sitapura, JAIPUR



### *Poornima College of Engineering - Activity Report*

in 2017 from Vilnius Gediminas Technical University, Lithuania. He got Various awards while serving to the industry. He has Industrial experience at Aha 3D Innovation Pvt Ltd, Jaipur as a ELECTRICAL APPLICATION ENGINEER. He has vast experience in organisational & Managerial Skills and Expertise in PCB designing, Automation, 3D Printing, 3D printer designing & Manufacturing and Different software's related to CAD & 3D Printing.

He has knowledge of designing, developing and maintaining electrical systems and components to required specifications, focusing on economy, safety, reliability, quality and sustainability.

He has consistent track record of successfully completing projects from the concept and details of the design through to implementation, testing and handover. Sir has successfully achieved the 20 microns resolution in FDM / FFF technology in Polymers like Carbon fiber, SS, Kevlar, Ultem with the help of Motors, Drylin bearings by temperature control system via electronics and Electrical circuit design and developed AFDM/AFFF Metal 3D printer in L3D Creations.

## **CONTENT DELIVERY / PRACTICAL SESSIONS:**

### **Day I (Monday, 15 March 2021)**



The first technical session was conducted by **Prof. S.P. Harsha** from **IIT Roorkee**. He delivered his talk on **Machine Learning techniques used in Automation**. In his session; he discussed in detail about different elements of automation and their uses.

Second Technical session was delivered by **Prof. R. S. Walia** from **PEC Chandigarh** on **Smart Manufacturing**. He discussed about the various methods used for smart manufacturing.

Day II (Tuesday, 16 March 2021)



The poster for Day II (Tuesday, 16 March 2021) features a blue header with the AICTE logo on the left and the Poornima College of Engineering logo on the right. The text in the header reads: "Six Days Short Term Training Programme (STTP) under AICTE-AQIS on ECLECTIC RESEARCH TRENDS IN MANUFACTURING (Part-3) March, 15-20, 2021 Department of Mechanical Engineering, Poornima College of Engineering, Jaipur". Below the header, three speakers are listed with their portraits, names, affiliations, session topics, and times.

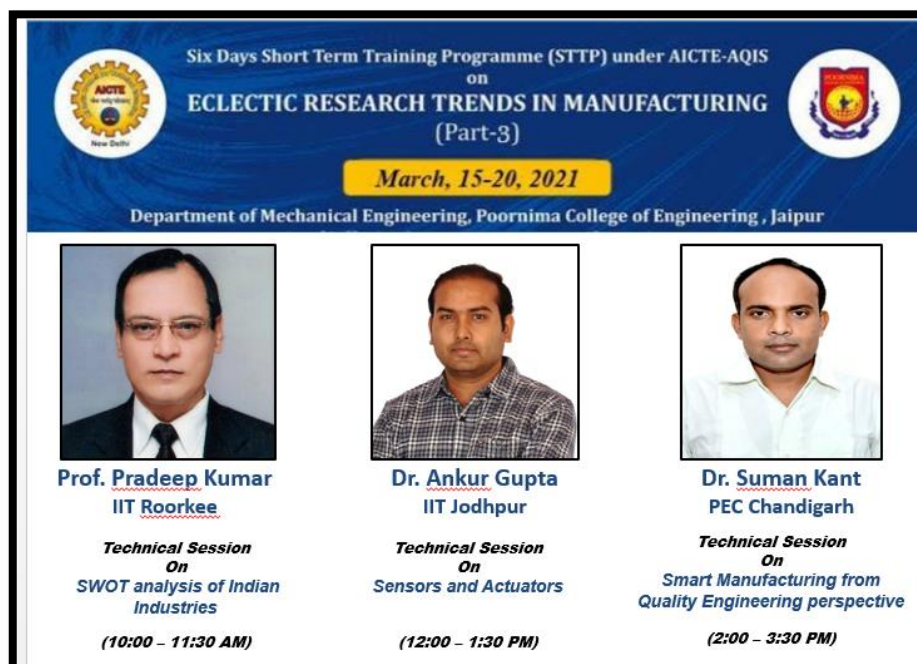
Speaker	Affiliation	Session Topic	Time
Prof. Pradeep Kumar	IIT Roorkee	Industry 4.0	(10:00 – 11:30 AM)
Prof. P. M. Pathak	IIT Roorkee	Advanced Robotics	(12:00 – 1:30 PM)
Dr. Anup Malik	MNIT Jaipur	Smart Materials	(2:00 – 3:30 PM)

In the first session of second day (3rd Session) was conducted by **Prof. Pradeep Kumar** from **IIT, Roorkee** delivered his expert session on **Industry 4.0**. He discussed about the various elements and application of industry 4.0.

The second session of second day (4th Session) of STTP was conducted by **Prof. P. M Pathak**, from **IIT, Roorkee** on **Advanced Robotics**. He discussed about the various types of robots in details.

In the third session of Second day (5th Session) of STTP was conducted by **Dr. Anup Malik, Assistant Professor** from **MNIT Jaipur** on **Smart Materials**. He talked about the different types of smart material, active smart polymer and different areas of smart materials.

Day III (Wednesday, 17 March 2021)



The poster for Day III (Wednesday, 17 March 2021) features a blue header with the AICTE logo on the left and the Poornima College of Engineering logo on the right. The text in the header reads: "Six Days Short Term Training Programme (STTP) under AICTE-AQIS on ECLECTIC RESEARCH TRENDS IN MANUFACTURING (Part-3) March, 15-20, 2021 Department of Mechanical Engineering, Poornima College of Engineering, Jaipur". Below the header, three speakers are listed with their portraits, names, affiliations, session topics, and times.

Speaker	Affiliation	Session Topic	Time
Prof. Pradeep Kumar	IIT Roorkee	SWOT analysis of Indian Industries	(10:00 – 11:30 AM)
Dr. Ankur Gupta	IIT Jodhpur	Sensors and Actuators	(12:00 – 1:30 PM)
Dr. Suman Kant	PEC Chandigarh	Smart Manufacturing from Quality Engineering perspective	(2:00 – 3:30 PM)

In the first session of third day (6th Session) of STTP; **Prof. Pradeep Kumar** from **IIT Roorkee**; delivered his talk on **SWOT analysis of Indian Industries**. He explained the Strengths, Weaknesses, Opportunities and Threats for Indian Industries in very detailed manner.

### *Poornima College of Engineering - Activity Report*

In the second session of third day (7th Session) of STTP; **Dr. Ankur Gupta, Assistant Professor** from **IIT Jodhpur** delivered the expert session on **Sensors and Actuators**. He discussed various researches which have been conducted till now and the future scope in the field of sensors and actuators.

In the third session of third day (8th Session) of STTP; **Dr. Suman Kant, Associate Professor** from **PEC Chandigarh** had delivered the expert session on **Smart Manufacturing from quality engineering perspectives**. He explained the topic with the case studies; how to select the smart manufacturing technique as per quality requirement.

Day IV (Thursday, 18 March 2021)

Six Days Short Term Training Programme (STTP) under AICTE-AQIS  
on  
**ECLECTIC RESEARCH TRENDS IN MANUFACTURING**  
(Part-3)  
**March, 15-20, 2021**  
Department of Mechanical Engineering, Poornima College of Engineering, Jaipur

Speaker	Topic	Time
 <b>Dr. Gunjan Soni</b> MNIT Jaipur	<b>Technical Session</b> On <b>IIOT &amp; Artificial Intelligence</b> <b>in Manufacturing Systems</b>	<b>(10:00 – 11:30 AM)</b>
 <b>Prof. P. M. Pandey</b> IIT Delhi	<b>Technical Session</b> On <b>Additive Manufacturing</b>	<b>(12:00 – 1:30 PM)</b>
 <b>Dr. Sachin K Mangla</b> University of Plymouth UK	<b>Technical Session</b> On <b>Blockchain in Supply Chains</b>	<b>(2:00 – 3:30 PM)</b>

In the first session of forth day (9th Session) of STTP; **Dr. Gunjan Soni, Assistant Professor** from **MNIT Jaipur** delivered his expert session on **IIOT & Artificial Intelligence in Manufacturing Systems**. He explained various elements of Artificial Intelligence which can be applied to Manufacturing Systems.

In the second session of forth day (10th Session) of STTP **Prof. P. M. Pandey** from **IIT Delhi** delivered the session on **Additive Manufacturing**. He shared the different research ideas regarding Additive manufacturing and their applications in different fields like medical, automobiles etc. and the **virtual visit of Rapid Prototyping Lab of IIT Delhi** was conducted.

In the third session of forth day (11th Session) of STTP **Dr. Sachin Kumar Mangla, Faculty** from **University of Plymouth, United Kingdom**; delivered the expert session on **Block chain in Supply Chains**. He shared his expertise with the participants about applications of block chain in supply chains, opportunities and challenges in the field. He along with his Turkey project colleague; Melissa discussed their UK and Turkey funded project with the participants.



Day V (Friday, 19 March 2021)



The poster for Day V of the Six Days Short Term Training Programme (STTP) under AICTE-AQIS on Eclectic Research Trends in Manufacturing (Part-3) is displayed. It features a blue background with the AICTE logo on the left and the Poornima College of Engineering logo on the right. The text at the top reads: "Six Days Short Term Training Programme (STTP) under AICTE-AQIS on ECLECTIC RESEARCH TRENDS IN MANUFACTURING (Part-3) March, 15-20, 2021 Department of Mechanical Engineering, Poornima College of Engineering, Jaipur". Below this, three technical sessions are listed, each with a portrait of the speaker:

Speaker	Topic	Time
Dr. Ravi Kant IIT Ropar	Recent Trends in Additive Manufacturing	(10:00 – 11:30 AM)
Mr. Ashish Varshney L3D Creations	3 D Printing	(12:00 – 1:30 PM)
Dr. C S Jawalkar PEC Chandigarh	Automation	(2:00 – 3:30 PM)

In the first session of fifth day (12th Session) of STTP; **Dr. Ravi Kant**, Assistant Professor from **IIT Ropar** delivered his talk on **Recent Trends in Additive Manufacturing**. He shared the various research ideas related to additive manufacturing; and discussed about various research areas of Additive Manufacturing.

In the second session of Fifth day (13th Session) of STTP **Mr. Ashish Varshney**, CEO from **L3D Creations Jaipur**; delivered his talk on **3D Printing**. He shared his experience with the participants and discussed different materials and methods of 3D printing.

In the third session of fifth day (14th Session) of STTP **Dr. C. S. Jawalkar**, Associate Professor from **PEC Chandigarh** delivered the expert session on **Automation**. He explained the various automation Techniques, which can be implement in manufacturing system.

Day VI (Saturday, 20 March 2021)



The poster for Day VI of the Six Days Short Term Training Programme (STTP) under AICTE-AQIS on Eclectic Research Trends in Manufacturing (Part-3) is displayed. It features a blue background with the AICTE logo on the left and the Poornima College of Engineering logo on the right. The text at the top reads: "Six Days Short Term Training Programme (STTP) under AICTE-AQIS on ECLECTIC RESEARCH TRENDS IN MANUFACTURING (Part-3) March, 15-20, 2021 Department of Mechanical Engineering, Poornima College of Engineering, Jaipur". Below this, two technical sessions are listed, each with a portrait of the speaker and a bouquet of flowers:

Speaker	Topic	Time
Dr. Atul Kumar Sharma IIT Jodhpur	Modelling of soft active smart materials	(10:00 – 11:30 AM)
Mr. Ashish Varshney L3D Creations	Hands-on session with 3D Printer	(12:00 – 1:30 PM)

  
**Dr. Mahesh Bunde**  
B.E., M.E., Ph.D.  
Director  
Poornima College of Engineering  
ISI-6, FIICO Institutional Area  
Stapura, JAIPUR

### Poornima College of Engineering - Activity Report

In the first session of sixth day (15th Session) of STTP; **Dr. Atul Kumar Sharma, Assistant Professor** from **IIT Jodhpur** delivered the expert session on **Modelling of soft active smart materials**. He shared the knowledge regarding different types of active smart materials and main influential factors affecting the properties of active smart materials.

In the second session of sixth day (16th Session)/Last technical session of STTP; **Mr. Ashish Varshney, CEO** from **L3D Creations Jaipur**; delivered **Hands on practise session with 3D Printer**. He described the steps from the CAD modelling to final printed parts. He has virtually showed how the 3D Printer works.

### GLIPMSES OF CONDUCTION:

#### Technical Sessions (DAY-1)

The screenshot displays a Zoom meeting interface. The main window shows a presentation slide from IIT Roorkee. The slide title is "MACHINE LEARNING TECHNIQUES USED IN AUTOMATION" in red, followed by the presenter's name "S. P. HARSHA" and his title "PROFESSOR MIED, IIT ROORKEE". Below the text is a large image of the IIT Roorkee building. The Zoom toolbar at the bottom includes options like Unmute, Stop Video, Participants, Q&A, Chat, Share Screen, Raise Hand, and Record. The top of the Zoom window shows a list of participants: Dr. Surendra Sai, Prof. S. P. Harsha, Dr. Narayan, Dr. Akshay Ja, Mr. Sanjay Kum, and Dr. Yashpal. The Zoom ID "yashpal.kaushik" is visible in the top right corner.

The screenshot displays a Zoom meeting interface. The main window shows a presentation slide titled "MACHINE LEARNING USING BAYESIAN OPTIMIZATION". The slide features a flowchart of the machine learning process: Data Collection (Optimal design) -> Features extraction (Filters, dimensionality reduction) -> Modelling (Model tuning and configuration, code optimisation) -> Results Interpretation/Decision (Data visualisation, Sequential experimentation). The flowchart is labeled "Pipeline improvement / Interaction with environment". The Zoom toolbar at the bottom includes options like Unmute, Start Video, Participants, Q&A, Chat, Share Screen, Raise Hand, and Record. The top of the Zoom window shows a list of participants: Prof. S. P. Harsha, Dr. Narayan, Dr. Akshay Ja, Mr. Sanjay Kum, Prof. Mahesh B..., and Shivraj Singh. The Zoom ID "yashpal.kaushik" is visible in the top right corner.

**DR. Mahesh Bunde**  
B.E., M.E., Ph.D.  
Director  
Poornima College of Engineering  
ISI-6, FIICO Institutional Area  
Shalpur, JAIPUR

## Poornima College of Engineering - Activity Report

Zoom Webinar

You are viewing Prof. S. P. Harsha Professor, ... screen

View Options

Dr. Yashpal, Ass... Dr. Surendra Sai... Prof. S. P. Harsha... Dr. Narayan... Prof. Mahesh B... Shrivraj Singh...

Recording

The host can unmute you in this meeting

### Machine Learning Methods

Parameters	SVM	ANN
Test Set	74 (94.62%)	71 (94.67%)
Correctly Classified Instances	11 (1.33%)	4 (5.33%)
Incorrectly Classified Instances	63	67

Unmute Start Video Participants Q&A Chat Show Screen Raise Hand Record Leave

PowerPoint Slide Show - [Day 3 Session PPT] - Microsoft PowerPoint

Unmute Stop Video Participants Q&A New Share Pause Share Annotate Remote Control More

You are screen sharing

Stop Share

AICTE-AQIS

### ECLECTIC RESEARCH TRENDS IN MANUFACTURING (Part-3)

March, 15-20, 2021

Department of Mechanical Engineering, Poornima College of Engineering, Jaipur

Prof. S. P. Harsha  
IIT Roorkee

Thank You

Dr. Yashpal Associat...  
Dr. Surendra Saini, Asso...  
Prof. S. P. Harsha...  
D  
Dr. Narayan Lal Jain ...  
Prof. Mahesh B...

PowerPoint Slide Show - [Day 3 Session PPT] - Microsoft PowerPoint

Unmute Stop Video Participants Q&A New Share Pause Share Annotate Remote Control More

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Stop Share

AICTE-AQIS

### ECLECTIC RESEARCH TRENDS IN MANUFACTURING (Part-3)

March, 15-20, 2021

Department of Mechanical Engineering, Poornima College of Engineering, Jaipur

### Technical Session on Smart Manufacturing

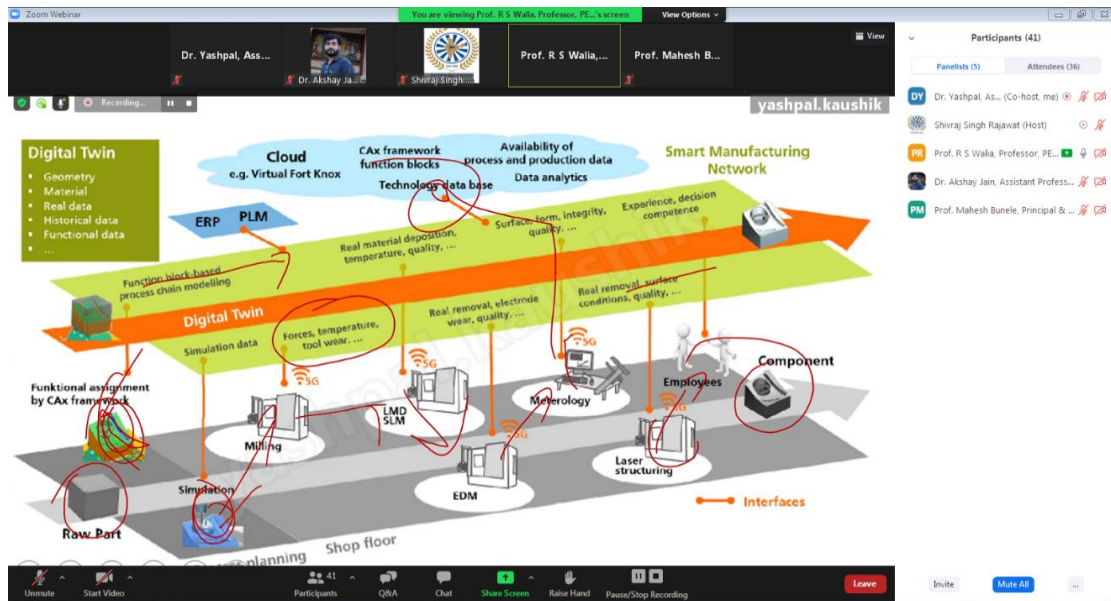
Prof. R. S. Walia  
PEC Chandigarh

Dr. Yashpal Associat...  
Dr. Akshay Jain, Assista...  
Shrivraj Singh Rajawat...  
Prof. R. S. Walia...  
Prof. Mahesh B...

**Dr. Mahesh Bundele**  
B.E., M.E., Ph.D.  
Director  
Poornima College of Engineering  
ISI-6, FIICO Institutional Area  
Shilapura, JAIPUR



## Poornima College of Engineering - Activity Report



### Digital disruption has forced businesses to rethink around five core themes...

<p><b>01 Digital Enterprise Strategy</b> Re-think business strategy and operating model for a digital age</p>	<p><b>02 Incubation &amp; Innovation</b> An end-to-end innovation capability to incubate new ideas and business models</p>	<p><b>03 Continuous Experience Implementation</b> Analyse the world of the customer, then design and implement new experiences</p>	<p><b>04 Digital Operations</b> Align, enhance and automate operations and supply chain to deliver on the promise of digital</p>	<p><b>05 Digital Trust</b> Scan the digital data horizon, to safeguard data and secure communications</p>
---	--	--	--	---

**Digital Manufacturing**

### Examples of IIoT: Smart Parking

- Sensors "detect"** whether a parking space is occupied or vacant and... transmit **data** to the central **server**
- Smartphone app** "requests" a parking space and guides drivers to the free space
- Parking fee** is paid directly through the app
- Special permit** Administration of parking and local resident IDs permits for taxis, coaches, deliveries
- Legitimation** Access control to restricted traffic areas such as loading zones, residential parking
- Intelligent Street Lighting** turns on (or increases the light intensity) when the street is actually used

Source: Deutsche Telekom

## Technical Sessions (DAY-2)

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Six Days Short Term Training Programme (STTP) under AICTE-AQIS  
on  
**ECLECTIC RESEARCH TRENDS IN MANUFACTURING**  
(Part-3)  
**March, 15-20, 2021**  
Department of Mechanical Engineering, Poornima College of Engineering, Jaipur

**Technical Session**  
on  
**Industry 4.0**



**Prof. Pradeep Kumar**  
IIT Roorkee

Dr. Yashpal, Assoc...

Dr. Surendra Saini, Asso...

Prof. Pradeep Kumar, P...

Mr. Sanjay Kum...

Shivraj Singh Shekha...

Zoom Webinar

You are viewing Prof. Pradeep Kumar, Professor's screen

View Options

01:44:54

sanjay.kumawat

Industry 5.0

- The next wave of industrial revolution needs to define, how we collaborate and how we define the rules between human and machine interaction.
- When artificial intelligence is taking decisions, like we could see in an impressive example during Google I/O 2018 presented by Sundar Pichai, CEO of Google.
- where a voice assistant called to make an appointment and the woman answering the call didn't have a chance to recognize, that she was speaking to a robot.

Dr. Yashpal, Associate Professor, ME...

Prof. Pradeep Kumar, Professor, IIT Roor...

Dr. Surendra Saini, Associate Professor...

Zoom Webinar

You are viewing Prof. Pradeep Kumar, Professor's screen

View Options

Participants (36)

Panelists (5)

Attendees (31)

Dr. Yashpal, Associ... (Co-host me)


Shivraj Singh Shekhawat (Host)

Prof. Pradeep Kumar, Profes...

Mr. Sanjay Kumawat, A... (Co-host)

Dr. Surendra Saini, Associate Pro...

**Life is a game. Money is how we keep score.**



Kodak kept neglecting Digital technology

Dr. Yashpal, Ass...

Dr. Surendra Sai...

Prof. Pradeep K...

Mr. Sanjay Kum...

Shivraj Singh...

yashpal.kaushik

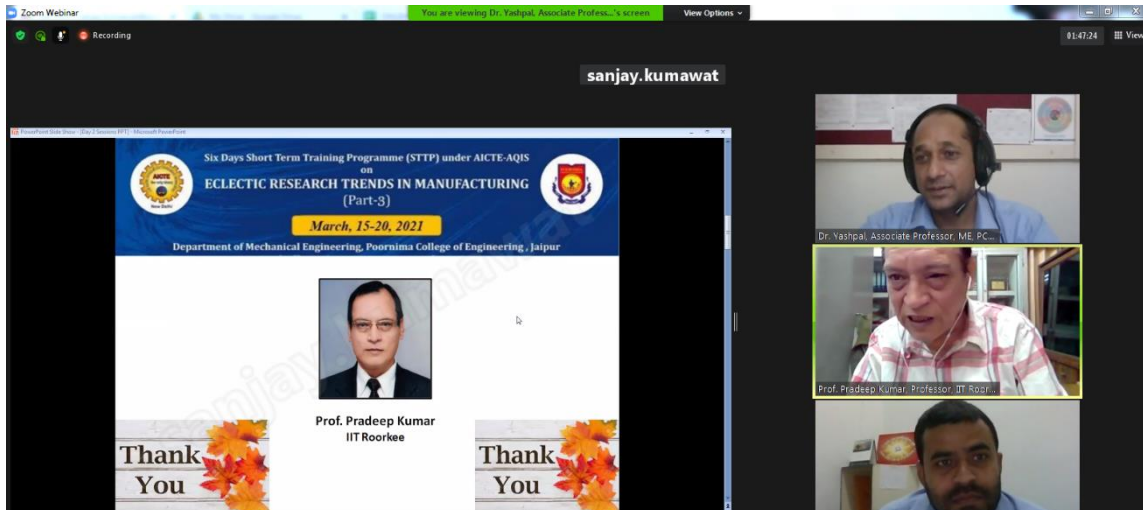
  
**Dr. Mahesh Bunde**  
B.E., M.E., Ph.D.  
Director  
Poornima College of Engineering  
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sanjay.kumawat



Six Days Short Term Training Programme (STTP) under AICTE-AQIS  
on  
ECLECTIC RESEARCH TRENDS IN MANUFACTURING  
(Part-3)  
March, 15-20, 2021  
Department of Mechanical Engineering, Poornima College of Engineering, Jaipur

Prof. Pradeep Kumar  
IIT Roorkee

Thank You

Dr. Yashpal, Associate Professor, ME, PC...

Prof. Pradeep Kumar, Professor, IT Roor...

Mr. Sanjay Kumawat, Assistant Prof...

PowerPoint Slide Show - [Day 2 Sessions PPT] - Microsoft PowerPoint | You are screen sharing | Stop Share | AICTE-AQIS | 12:04 PM 3/16/2021

Six Days Short Term Training Programme (STTP) under AICTE-AQIS  
on  
ECLECTIC RESEARCH TRENDS IN MANUFACTURING  
(Part-3)  
March, 15-20, 2021  
Department of Mechanical Engineering, Poornima College of Engineering, Jaipur

Technical Session  
on  
Advanced Robotics



Prof. P. M. Pathak  
IIT Roorkee

Dr. Yashpal, Associate Professor, ME, PC...

Dr. P. M. Pathak, Professor, IT Roor...

Mr. Sanjay Kumawat, Assistant Prof...

Shivraj Singh Rajawat

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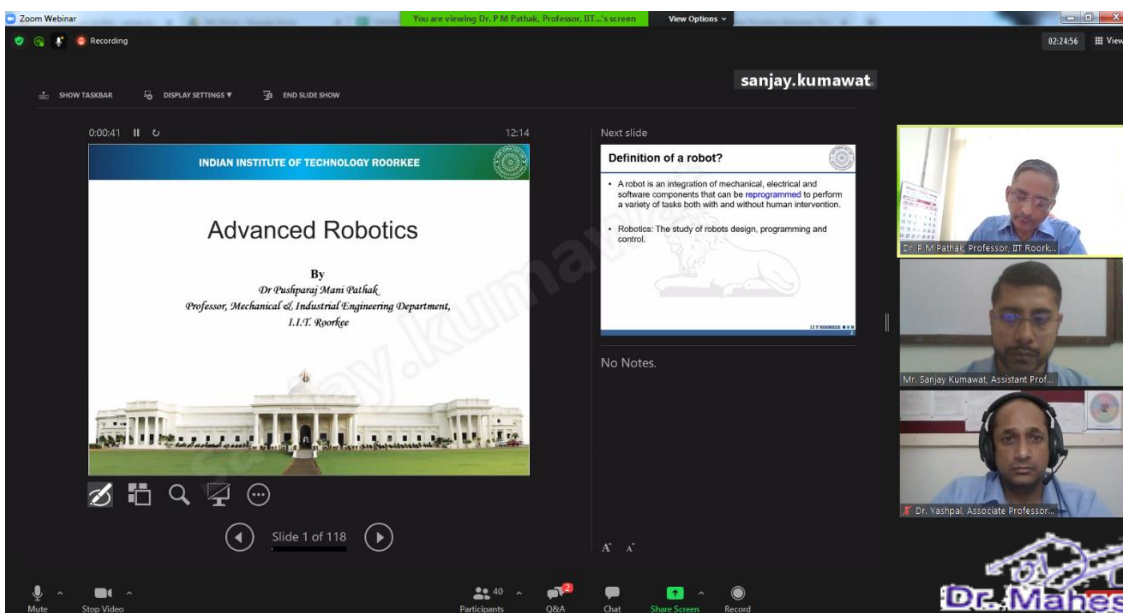
sanjay.kumawat

0:00:41 | 12:14

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Advanced Robotics

By  
Dr. Pashuparaj Mani Pathak  
Professor, Mechanical & Industrial Engineering Department,  
I.I.T. Roorkee



Definition of a robot?

- A robot is an integration of mechanical, electrical and software components that can be reprogrammed to perform a variety of tasks both with and without human intervention.
- Robotics: The study of robots design, programming and control.

No Notes.

Dr. P.M Pathak, Professor, IT Roor...

Mr. Sanjay Kumawat, Assistant Prof...

Dr. Yashpal, Associate Professor...

**Dr. Mahesh Bunde**  
B.E., M.E., Ph.D  
Director  
Poornima College of Engineering  
ISI-6, FIICO Institutional Area  
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**Poornima College of Engineering - Activity Report**

Zoom Webinar

Recording

02:38:58

View

SHOW TABLES

DISPLAY SETTINGS

END SLIDE SHOW

0:14:36

12:28

Sketch of a Unimate robot (Crichton, 1985)

Slide 5 of 118

Question and Answer

Open (6) Answered (8) Disabled

MS

mandar sumant

12:22 PM

6?

Answer live

Type answer

MS

Neeraj Goyal

12:22 PM

Five Dof

Answer live

Type answer

PI

priid jagadeesh

12:22 PM

6?

Answer live

Type answer

MS

mandar sumant

What are the advances in robotics that will be useful for Industry 4.0?

Answer live

Type answer

Dr. Ravih

Professor, BT Road

Unmute

Start Video

Participants

Q&A

Chat

Share Screen

Record

12:37

16-03-2022

Recording
05:46:38
View

sanjay.kumawat

Dr. Yashpal, Associate Professor, ME, PCOE

Mr. Sanjay Kumawat, Assistant Professor, ME, PCCOE

Dr. Anup Malik, Assistant Professor, MNT Jaipur

Dr. Akshay Jain, Assistant Professor, ME, PCCOE

Update
Stop Video
Participants 34
Q&A
Chat
Share Screen
Record
Leave

**Zoom Webinar**

You are viewing Dr. Anup Malik, Assistant Pro... 's screen View Options <

Dr. Akshay Jain,... Dr. Yashpal, Ass... Dr. Anup Malik,... Mr. Sanjay Kum... Shweta Singh...

**akshay.jain**

## Active Smart Polymers

### *Exploration of Planetary applications*

Dust wiper

Sample handling robotics

Participants: 40 Q&A Chat Share Screen Record

  
**Dr. Mahesh Bundeale**  
B.E., M.E., Ph.D.  
Director  
Poornima College of Engineering  
ISI-0, RICO Institutional Area  
Silapura, JAIPUR


## Technical Sessions (DAY-3)

PowerPoint Slide Show - (Day 3 Session PPT) - Microsoft PowerPoint

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Six Days Short Term Training Programme (STTP) under AICTE-AQIS  
on  
ECLECTIC RESEARCH TRENDS IN MANUFACTURING  
(Part-3)  
March, 15-20, 2021  
Department of Mechanical Engineering, Poornima College of Engineering, Jaipur

**Technical Session**  
on  
**SWOT analysis of Indian Industries**

  
Prof. Pradeep Kumar  
IIT Roorkee

Dr. Yashpal, Associate...  
Prof. Pradeep Kumar, P...  
Mr. Sanjay Kumawat, As...  
Shivraj Singh Rajawat

Zoom Webinar

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Recording

sanjay.kumawat

SWOT Analysis of Indian Industry: Weaknesses

- Lack of trust and credibility in the working system,
- Lack of Clarity /Seriousness for achieving Target,
- Lack of precise observance of rules and norms,
- Lack of knowledge regarding SQC techniques,
- Low Quality of Bought out items/components,
- Lack of consciousness of time as money,
- Management view short term benefits,
- Politicalisation of Labor Unions...
- Lack of accountability for actions,

Dr. Yashpal, Ass...  
Mr. Sanjay Kum...  
Prof. Pradeep K...  
Shivraj Singh

Unmute Start Video Participants Q&A Chat Share Screen Record Leave

Zoom Webinar

Recording


00:18:39 View

Dr. Yashpal, Associate Professor, ME, PCE, Jaipur

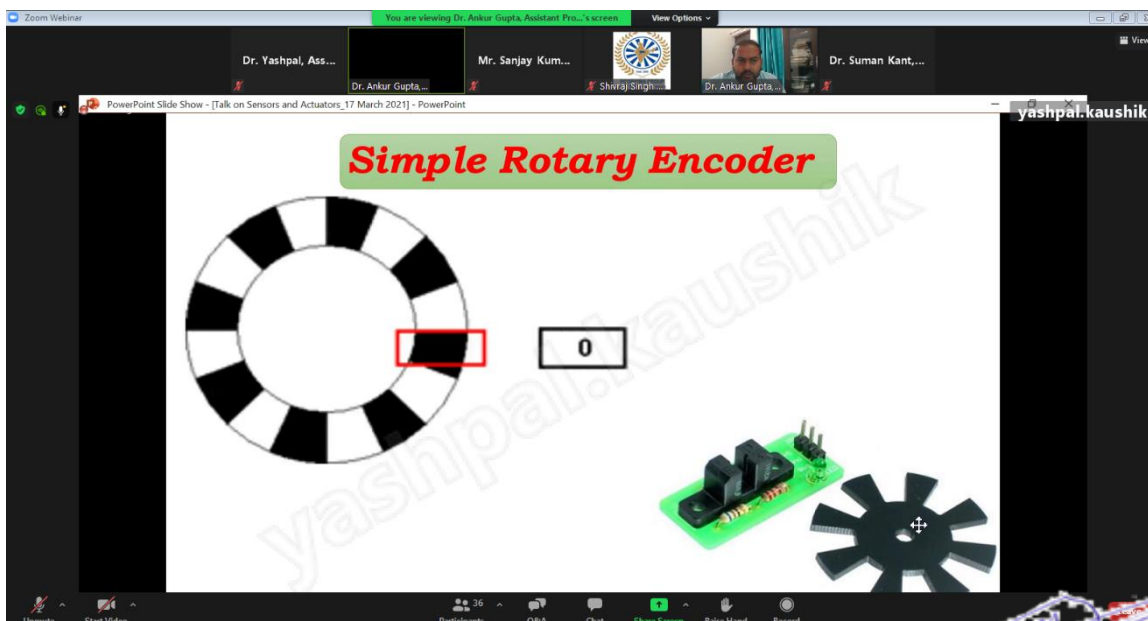
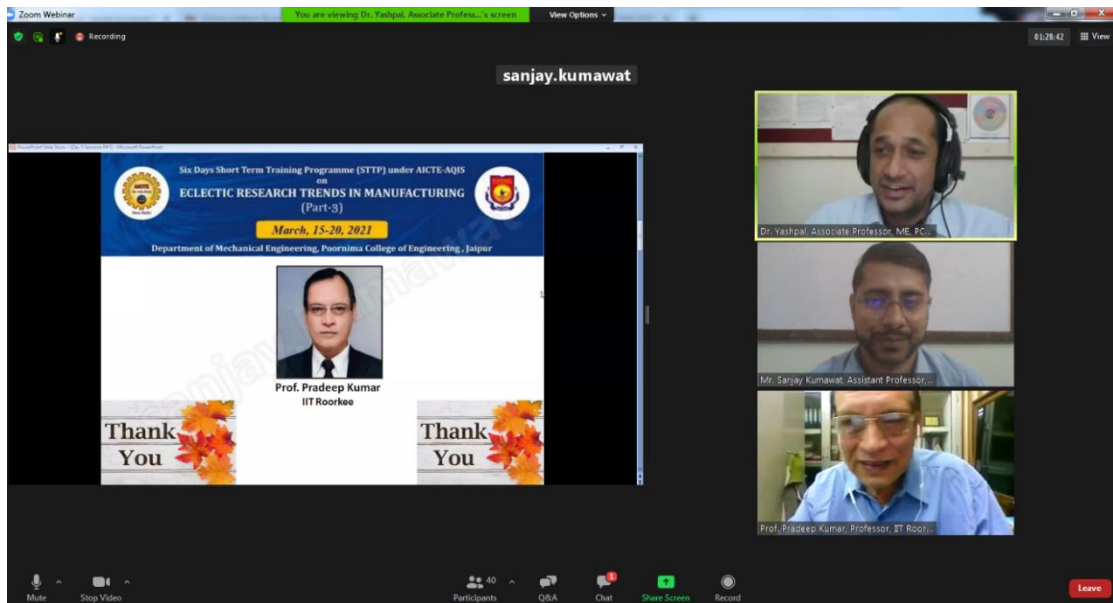
Mr. Sanjay Kumawat, Assistant Professor, ME, PCE, Jaipur

Prof. Pradeep Kumar, Professor, IIT Roorkee

Unmute Stop Video Participants Q&A Chat Share Screen Record Leave

  
**Dr. Mahesh Bundele**  
B.E., M.E., Ph.D.  
Director  
Poornima College of Engineering  
ISI-0, FIICO Institutional Area  
Sitapura, JAIPUR

## Poornima College of Engineering - Activity Report





## Poornima College of Engineering - Activity Report

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Six Days Short Term Training Programme (STTP) under AICTE-AQIS on ECLECTIC RESEARCH TRENDS IN MANUFACTURING (Part-3)

March, 15-20, 2021

Department of Mechanical Engineering, Poornima College of Engineering, Jaipur

Dr. Ankur Gupta  
IIT Jodhpur

Thank you!!!

Dr. Ankur Gupta, Ass...

Dr. Yashpal Associate P...

Dr. Ankur Gupta...

Mr. Sanjay Kum...

Shivraj Singh Rajawat

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sanjay.kumawat

# Smart Manufacturing from Quality Engineering Perspective

By:  
Dr Suman Kant  
Associate Professor  
Production & Industrial Department  
Punjab Engineering College

Dr. Suman Kant, Associate Professor, ...

Mr. Sanjay Kumawat, Assistant Pro...

Dr. Yashpal, Associate Professor, ME

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Q&A

Chat

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yashpal.kaushik

Service sector now evaluated for suitability, effectiveness, performance and quality

## ZED (Zero Defect Zero Effect)

- In Our Country we have introduced ZED, people are seeing as it an ISO counter part.
- May be Important tool for make an India concept
- **Important is that silver, gold and**

yashpal.kaushik

Dr. Suman Kant,...

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## Technical Sessions (DAY-4)

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on  
ECLECTIC RESEARCH TRENDS IN MANUFACTURING  
(Part-3)  
March, 15-20, 2021  
Department of Mechanical Engineering, Poornima College of Engineering, Jaipur

Technical Session  
on  
IIOT & Artificial Intelligence in Manufacturing Systems

Dr. Gunjan Soni  
MNIT Jaipur

Dr. Yashpal, Associat...  
Mr. Shalendra Kasera, ...  
Dr. Gunjan Soni, Asst...  
Poornima Group

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Dr. Gunjan Soni, ...  
Poornima Gr...

3DPrinterType

Instantiating

3DPrinter1

3DPrinter2

Figure 8. Definition of 3DPrinterType and its instantiation (Wang et al., 2018)

HasComponent

ObjectType

Object

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2.1. AM information flow

Understanding the information flow in AM processes helps to identify the key inputs to a 3D printer and how to assist customers to define these inputs. Communication between customers and suppliers in the cloud can then be improved. ISO 17296-4 (2014) describes the basic data flow from a product idea to the actual part. Accordingly, the general information flow as a basis for platform architecture design is defined in Figure 3.

Requirements

Process planning

Process & material

Printing parameters

Knowledge

Sliced contour data

G-code

Printer

Printed parts

Printing

Volume model

Facet model

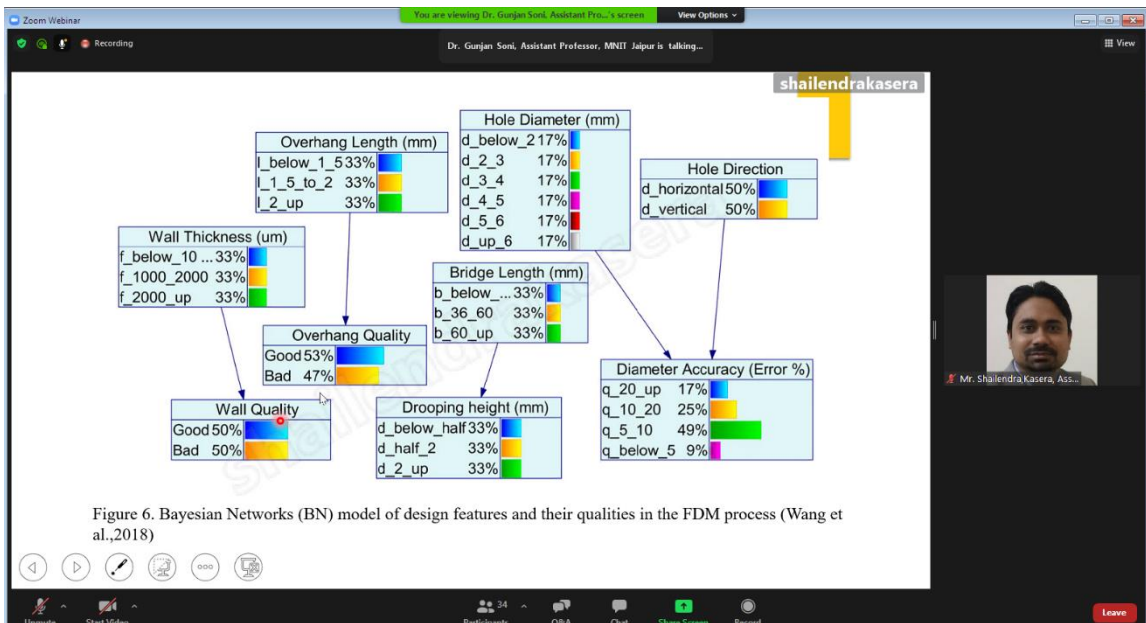
CAD model

STL file

Design



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March, 15-20, 2021

Department of Mechanical Engineering, Poornima College of Engineering, Jaipur

Technical Session on Additive Manufacturing

Prof. P. M. Pandey IIT Delhi

Dr. Yashpal, Associat...

Mr. Sanjay Kumawat, As...

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Prof. Pulak Mohan Pand...

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Working of Continuous Carbon Fiber 3D printer

Mark3D Print Stronger

Participants

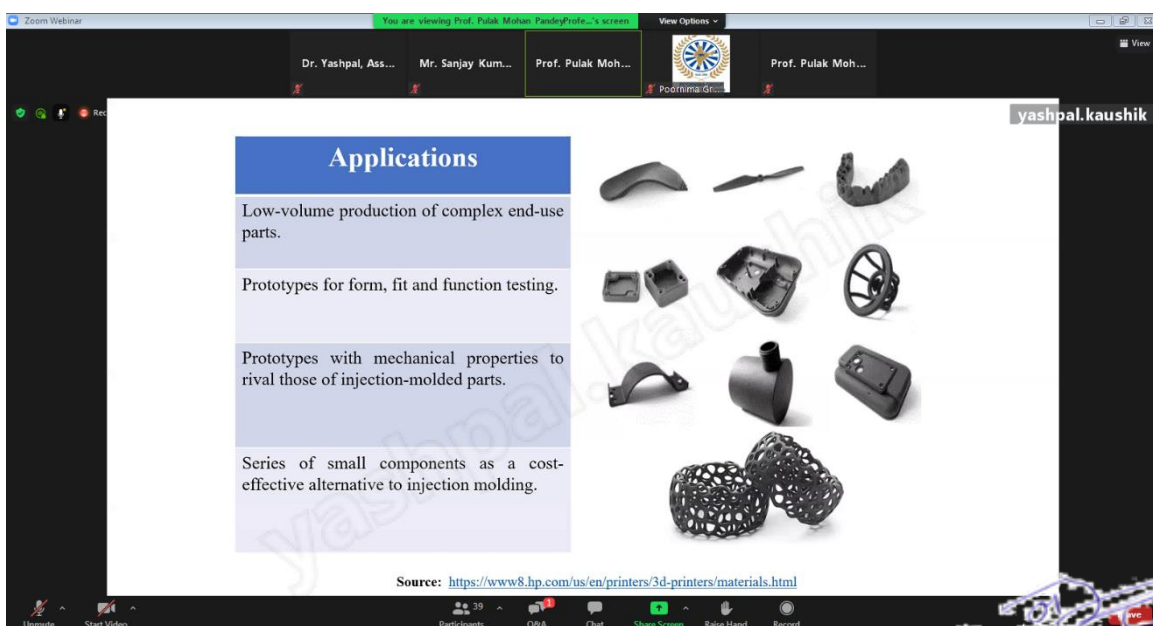
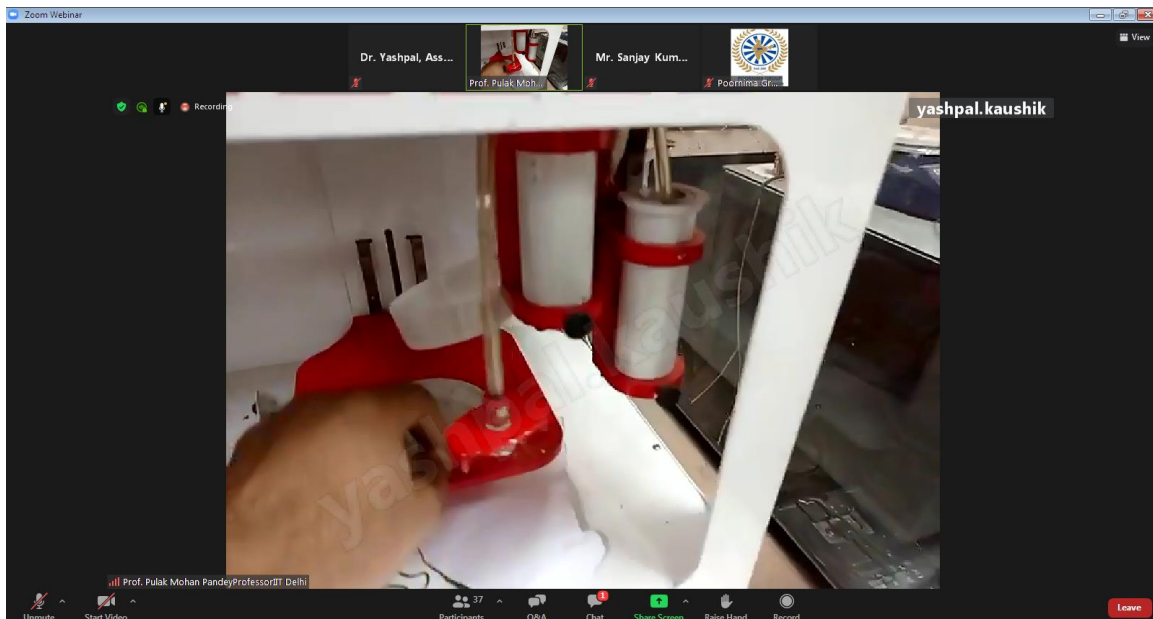
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Source: <https://www.8.hp.com/us/en/printers/3d-printers/materials.html>

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**Technical Sessions (DAY-5)**

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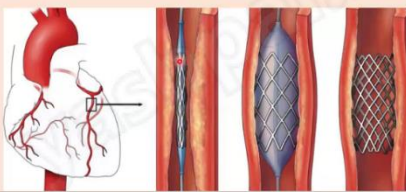
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### 3-D Printed Stents For Peripheral Arterial Disease

- 3D print stents expected to improve sizing options, preserve essential anatomy, and enable diameters and shapes to suit individual patient requirements
- Individual stents to be made on-site, under the surgeon's direction, reducing inventory and saving money
- 3-D printed stents help patients to reduce suffering from serious breathing disorders caused by trauma, tumors, inflammation
- Traditional airway stents, available in a limited range of sizes, do not always fit the patient
- 3D printed stents are reportedly more long-lasting than traditional stents



3-D printed stent for heart arteries



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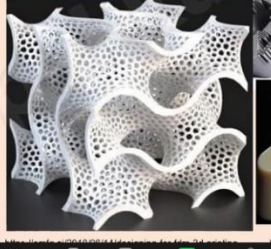
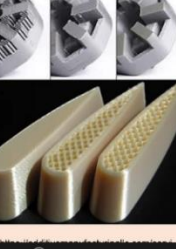
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<https://www.3ders.org/articles/20150420-yale-scientists-develop-technique-that-improve-the-strength-of-fdm-3d-printed-parts.html>



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Six Days Short Term on ECLECTIC RESEARCH TRENDS IN MANUFACTURING (Part-3)

March, 15-20, 2021

Department of Mechanical Engineering, Poornima College of Engineering, Jaipur



Dr. Ravi Kant  
IIT Ropar

Thank You

Thank You

Dr. Yashpal, Assistant Prof. Dr. Ravi Kant, Assistant Prof. Mr. Shalendra Kishor Mr. Sanjay Kumar Shriraj Singh Rajawat



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March, 15-20, 2021

Department of Mechanical Engineering, Poornima College of Engineering, Jaipur

Technical Session on 3D Printing

Mr. Ashish Varshney  
L3D Creations

Dr. Yashpal, Associat...  
Mr. Ashish Varshney, CE...  
Mr. Sanjay Kumawat, As...  
Shivraj Singh Rajawat

12:01 PM  
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19-03-2021

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ISI-6, FIICO Institutional Area  
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on  
**ECLECTIC RESEARCH TRENDS IN MANUFACTURING**  
(Part-3)  
March, 15-20, 2021  
Department of Mechanical Engineering, Poornima College of Engineering, Jaipur

**Technical Session**  
on  
**Automation**

Dr. C S Jawalkar  
PEC Chandigarh

Dr. Yashpal, Associate Professor, ME, PC...

Mr. Sanjay Kumawat, Assistant Professor...

Dr. C. S. Jawalkar, Associate Professor, P...

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Equipments Factors

- Flexibility
- Adaptability
- Speed
- Space requirements
- Supervision required
- Environment
- Cost
- Ease of Maintenance
- Power
- Load capacity

Dr. C. S. Jawalkar, Associate Professor, PEC C...

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AMHSA (Automated Material Handling Systems Association).mp4 - VLC media player

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Shuttle-based systems  
Storage systems

yashpal.kaushik

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**Dielectric elastomers: A great potential**

**What are dielectric elastomer?**

- Soft, Light weight, Flexible
- Large deformation (10-400% strain) like muscles
- Low cost

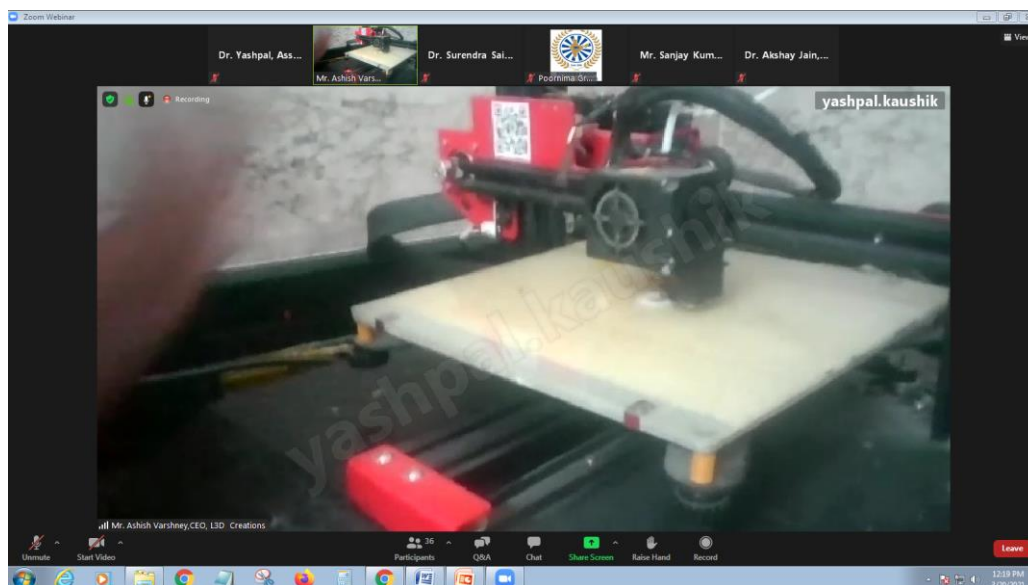
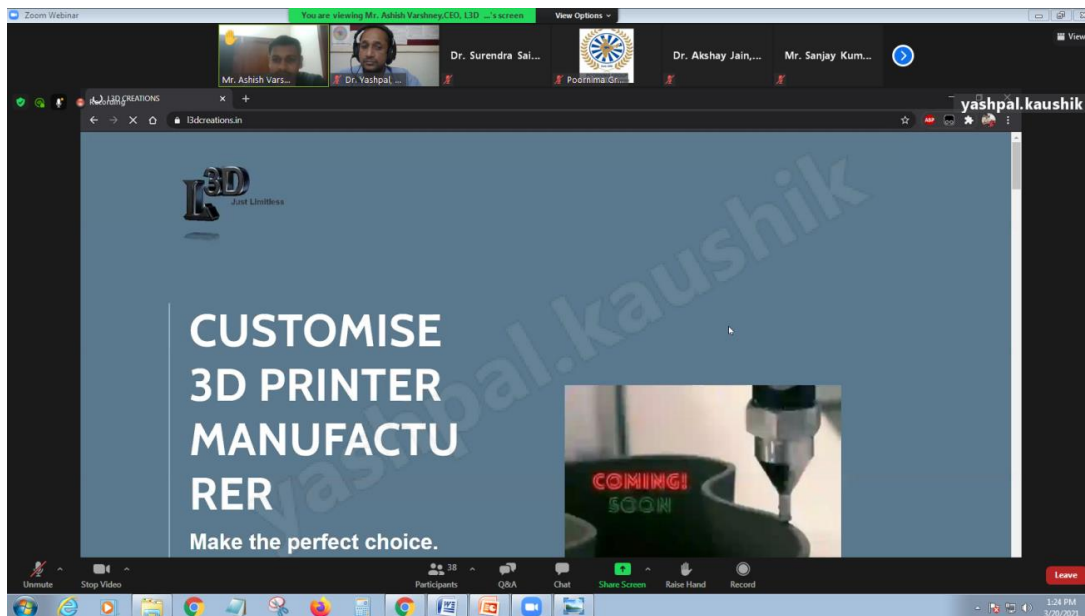
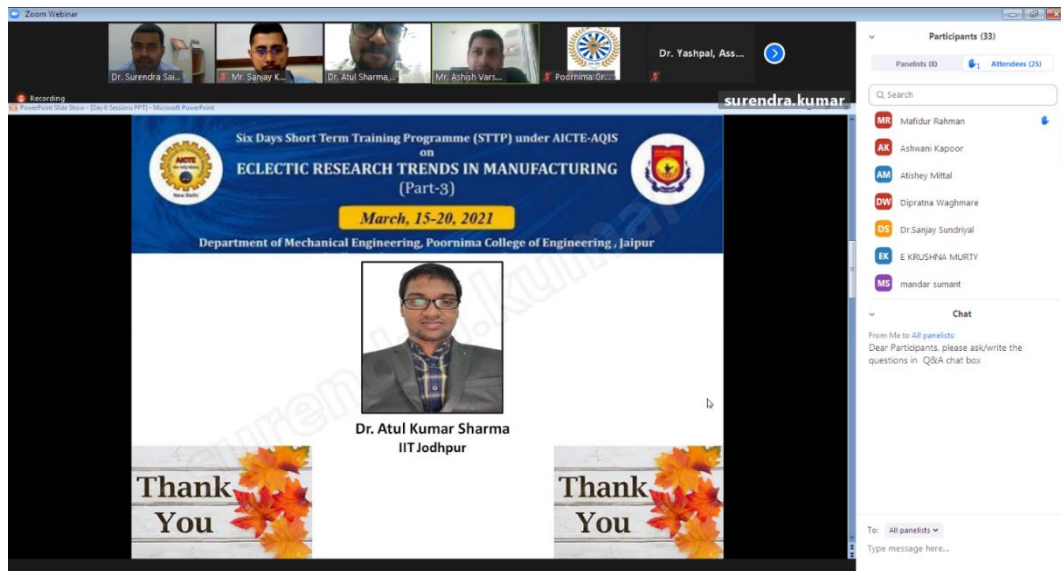
**What can dielectric elastomers do ?**

- Nonlinear material properties
- Electromechanical coupling
- Morphological and operational instabilities
- High voltage requirement

**Effective and reliable design of DEs > Efficient and accurate computational models capable of capturing**

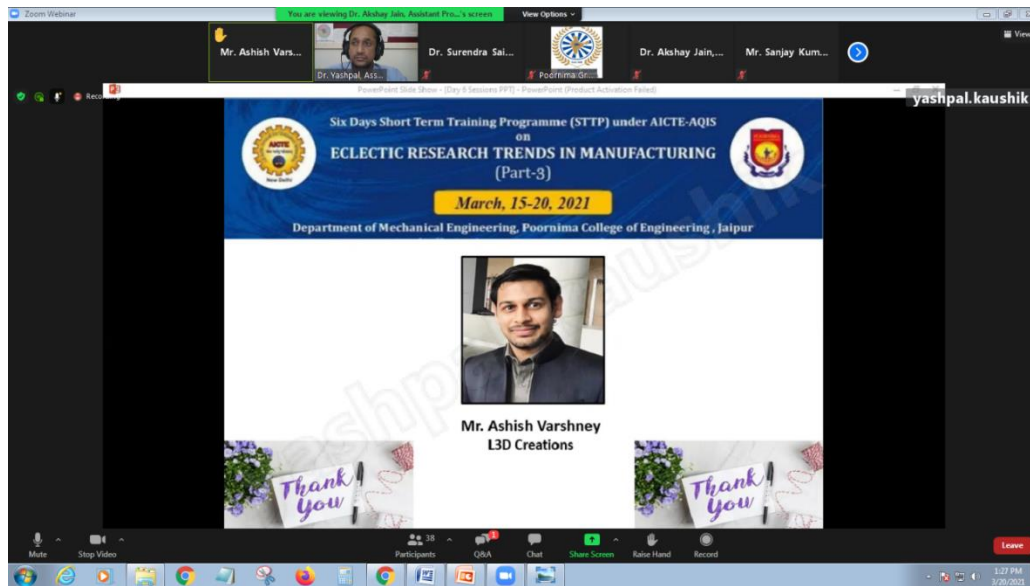


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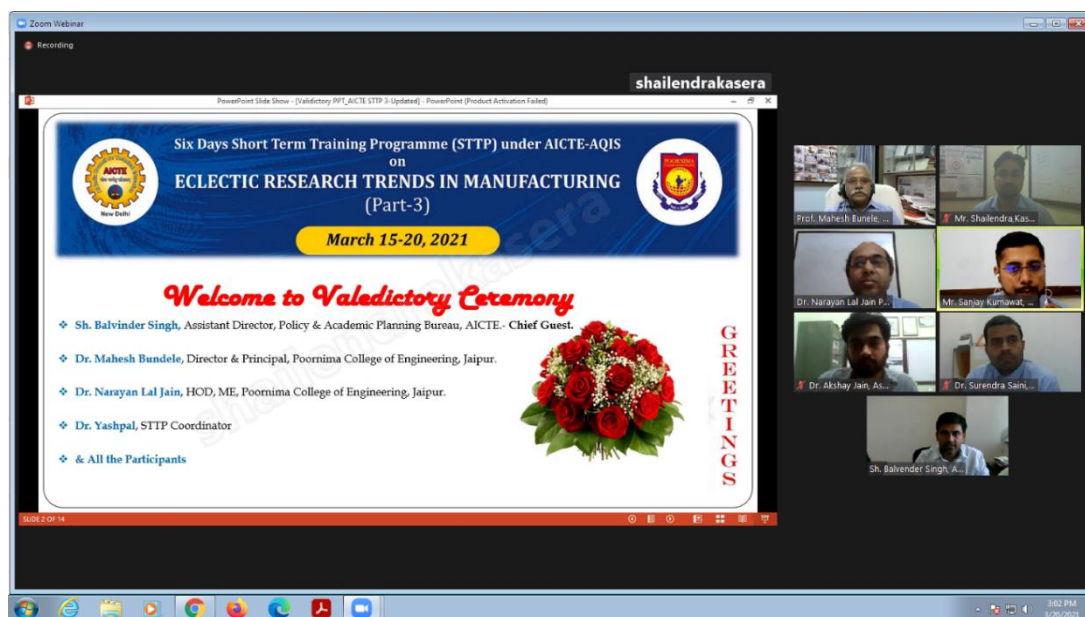


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## VALEDICTORY SESSIONS:



  
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March 15-20, 2021

Brief Report on STTP

Dr. Yashpal  
Coordinator, STTP (ERTM- Part-3)

Mr. Shailendra Kasera, A...  
Mr. Sanjay Kumawat, Ass...  
Dr. Akshay Jain, Assistant...  
Sh. Balvender Singh, Assi...  
Dr. Yashpal, Associate Profs...  
Dr. Narayan Lal Jain Prof...  
Prof. Mahesh Bunde, Pri...

47 Participants

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shailendrakasera

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Alumni- More then 2000  
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Mr. Sanjay Kuntawat, ...  
Dr. Akshay Jain, As...  
Dr. Yashpal, Associ...  
Dr. Surendra Saini...  
Sh. Balvender Singh, A...

3:03 PM 3/20/2021

Mr. Shailendr...  
Mr. Sanjay Kum...  
Dr. Yashpal...  
Sh. Balvender...  
Dr. Narayan...  
Dr. Surendra...

shailendrakasera

Prof. Mahesh Bunde, Principal & Director, PCE, Jaipur

  
**Dr. Mahesh Bunde**  
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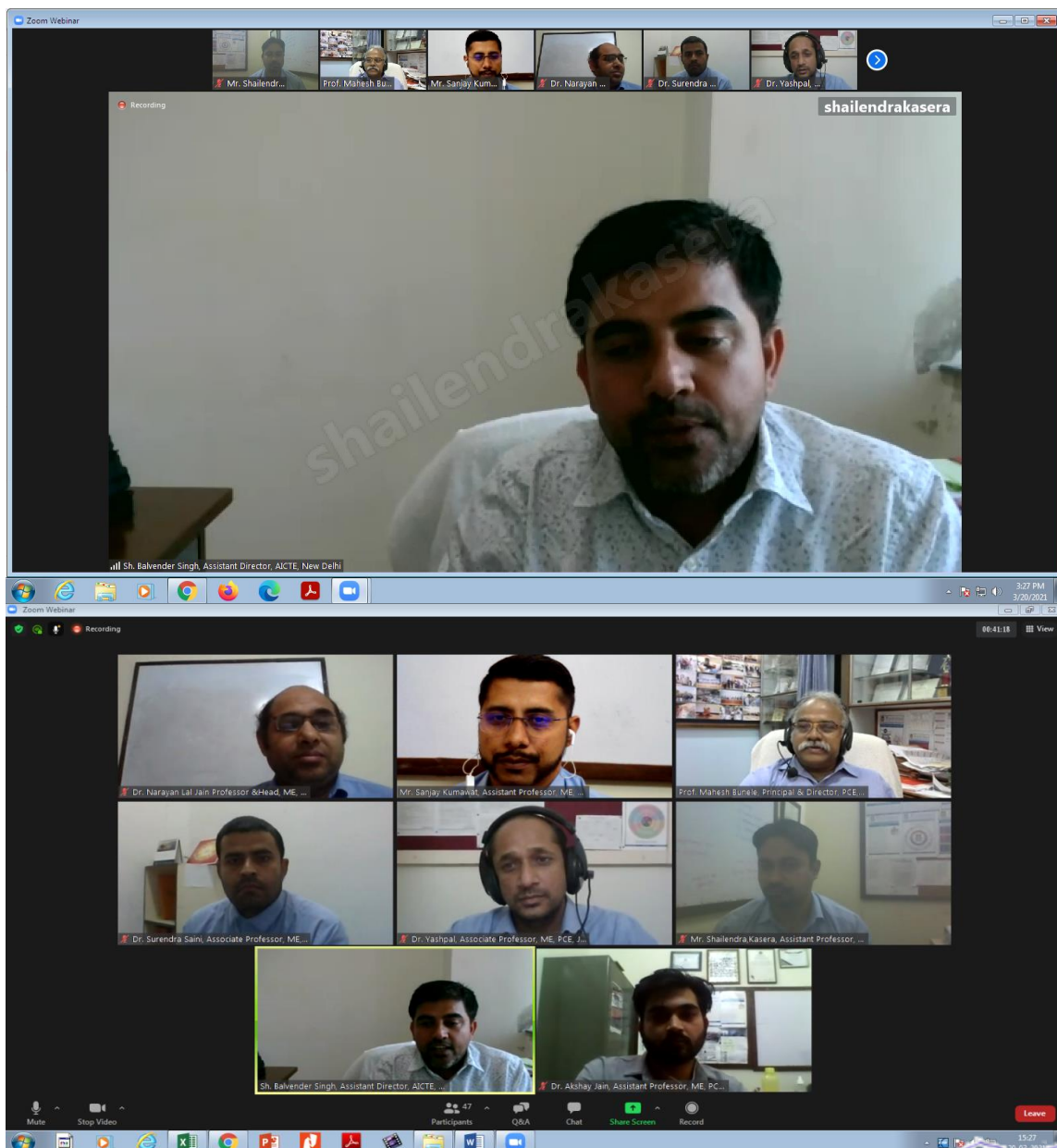
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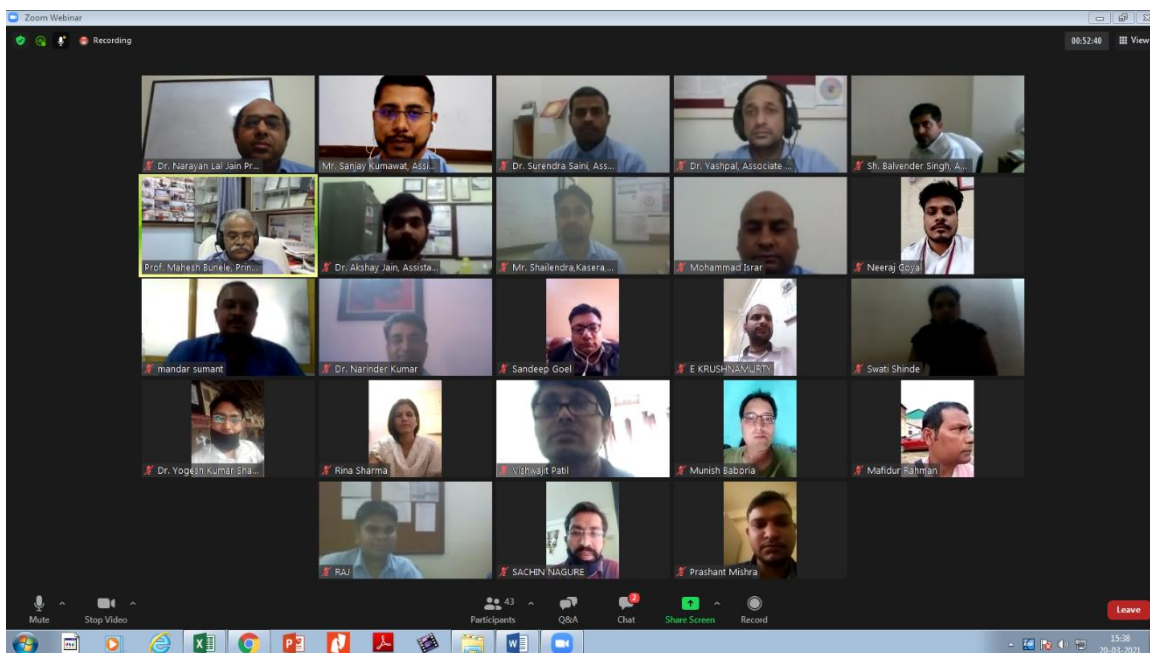


**Sh. Balvinder Singh**  
Assistant Director, Policy & Academic  
Planning Bureau, AICTE





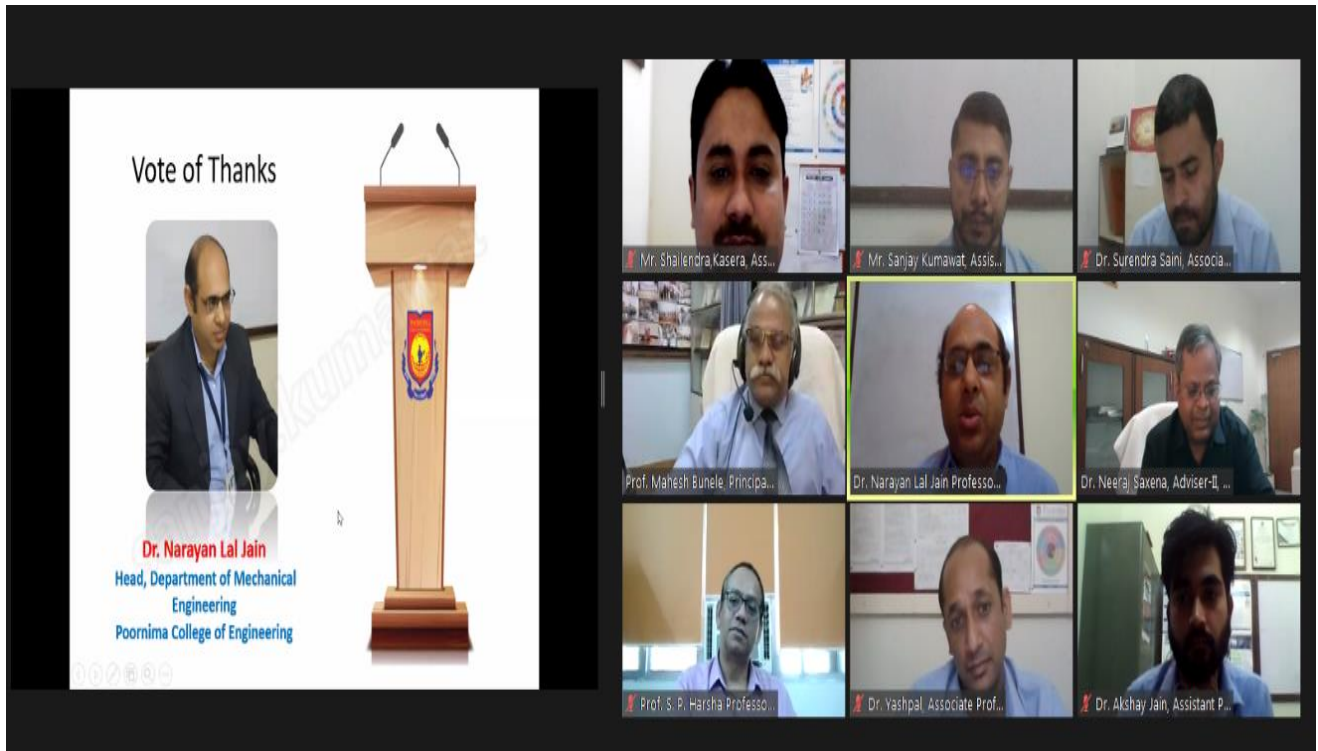
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Six days AICTE-AQIS sponsored online Short Term Training Programme on Eclectic Research Trends in Manufacturing (Part-3) is organized by the Department of Mechanical Engineering, Poornima College of Engineering, Jaipur. About Two hundred participants including research scholars, faculty members; academicians and industry persons from various parts of the country have registered for this Short Term Training Programme. In this STTP, Sixteen technical Expert sessions were conducted by the eminent speakers from IITs, NITs, other premier institutes and industries.

  
**Dr. Mahesh Bunde**  
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**POORNIMA**  
COLLEGE OF ENGINEERING

**AICTE Sponsored**  
**Six Days Short Term Training Programme (STTP)**  
**on**  
**Eclectic Research Trends in Manufacturing**  
**(Part - 3)**

**March 15-20, 2021**

**Certificate of Participation**

This is to certify that Prof./Dr./Mr./Ms. ....  
from.....  
has participated in the AICTE sponsored Six Days Short Term Training Programme (STTP-online) on  
Eclectic Research Trends in Manufacturing (Part - 3) organized by Department of Mechanical  
Engineering, Poornima College of Engineering, Jaipur, held on 15-20 March, 2021.



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## FEEDBACK FORM SAMPLE

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on  
**ECLECTIC RESEARCH TRENDS IN MANUFACTURING (Part-3)**  
March 15-20, 2021  
Department of Mechanical Engineering, Poornima College of Engineering, Jaipur

**FEEDBACK FORM AICTE STTP-ERTM PART-3**  
AICTE-AQIS sponsored online Six Days Short Term Training Programme on 'Eclectic Research Trends in Manufacturing (Part-3)' College-Poornima College of Engineering, Jaipur, Rajasthan Date-(March 15-20, 2021)

Scale of Rating  
Outstanding-5 Excellent-4 Good-3 Average-2 Satisfactory-1

Name  
Short answer text

Organisation  
Short answer text

Email (Same as mentioned in filled in registration form) \*  
Short answer text

1. Your experience about the course.  
Scale of Rating Outstanding-5 Excellent-4 Good-3 Average-2 Satisfactory-1

1  
2  
3  
4  
5

2. Knowledge enhancement. \*

1  
2  
3

3. Relevancy of topics. \*

1  
2  
3  
4  
5

4. About speakers. \*

1  
2  
3  
4  
5

5. General Arrangement. \*

1  
2  
3  
4  
5

6. In future you want to attend such course at this Institute (Name of Institute) \*

YES  
No

7. Suggestions  
Long answer text

## FEEDBACK FORM QUESTIONNAIRE QUESTIONS:

1. Your experience about the course.
2. Knowledge enhancement.
3. Relevancy of topics.
4. About speakers.
5. General Arrangement.
6. Topic that can be covered in the next course?
7. Suggestions

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