

Advances in Material Processing and Additive Manufacturing (Sept 1-10, 2022)
Under Electronics and ICT Academy, PDPM IIITDM Jabalpur
PROGRAMME SCHEDULE (Tentative)

Session	Day, Date and Timings	Expert Name, Affiliation	Domain/Title of lecture
Day 1			
Inaugural Session 3.15 pm to 3.30 pm			
1	Thursday, 1-9-2022, 3.30-4.30 pm	Dr. Manu, PDPM IIITDM Jabalpur	<i>Additive Manufacturing: Introduction to AM, Classification of AM Processes</i>
2	Thursday, 1-9-2022, 4.30-5.30 pm	Dr. Manu, PDPM IIITDM Jabalpur	<i>Additive Manufacturing: Introduction to AM, Classification of AM Processes</i>
Break 5.30 pm to 6 pm			
3	Thursday, 1-9-2022, 6-7 pm	Dr. Saroj K Sarangi, NIT Patna	<i>Smart Functionally Graded Structures</i>
4	Thursday, 1-9-2022, 7-8 pm	Dr. Saroj K Sarangi, NIT Patna	<i>Analysis of smart Functionally Graded Structures</i>
Day 2			
5	Friday, 2-9-2022, 3.30-4.30 pm	Prof U.S. Dixit, IIT Guwahati	<i>Sustainability Aspects of Additive Manufacturing</i>
6	Friday, 2-9-2022, 4.30-5.30 pm	Prof U.S. Dixit, IIT Guwahati	<i>Sustainability Aspects of Additive Manufacturing</i>
Break 5.30 pm to 6 pm			
7	Friday, 2-9-2022, 6-7 pm	Dr. Atul Kumar, VIT Vellore	<i>Addition mechanism for materials</i>
Day 3			
8	Saturday, 3-9-2022, 9-10 am	Dr. M.K.Roy, PDPM IIITDM Jabalpur	<i>Material characterization by AFM Technique</i>
9	Saturday, 3-9-2022, 10-11 am	Dr. M.K.Roy, PDPM IIITDM Jabalpur	<i>Material characterization by AFM Technique</i>
Break 11 am-11.15 am			
10	Saturday, 3-9-2022, 11.15 am-12.15 pm	Prof Santosh Kumar, IIT BHU	<i>Advanced Manufacturing</i>
11	Saturday, 3-9-2022, 12.15 – 1.15 pm	Prof Santosh Kumar, IIT BHU	<i>Advanced Manufacturing</i>
Break 1.15 pm to 2.30 pm			
12	Saturday, 3-9-2022, 2.30- 3.30 pm	Dr. Manu, PDPM IIITDM Jabalpur	<i>Functionally Graded Materials</i>
SUNDAY			
Day 4			
13	Monday, 5-9-2022, 9.30 am-10.30 am	Dr. Himanshu Nanda, PDPM IIITDM Jabalpur	<i>Processing of Biomaterials for Biomedical Engineering</i>
14	Monday, 5-9-2022, 10.30 am-11.30 am	Dr. Himanshu Nanda, PDPM IIITDM Jabalpur	<i>Processing of Biomaterials for Biomedical Engineering</i>
15	Monday, 5-9-2022, 3.30-4.30 pm	Prof. Guerel Cam	<i>Wire Arc Additive Manufacturing</i>
16	Monday, 5-9-2022, 4.30-5.30 pm	Dr. Manu, PDPM IIITDM Jabalpur	<i>Metal additive manufacturing</i>
Break 5.30 pm to 6 pm			
17	Monday, 5-9-2022, 6-7 pm	Dr. Sandeep Rathee, NIT Srinagar	<i>Material Characterization Techniques</i>
18	Monday, 5-9-2022, 7-8 pm	Dr. Sandeep Rathee, NIT Srinagar	<i>Material Characterization Laboratory</i>
Day 5			
19	Tuesday, 6-9-2022, 3.30-4.30 pm	Prof. Puneet Tandon, PDPM IIITDM Jabalpur	<i>Hybrid Manufacturing</i>
20	Tuesday, 6-9-2022, 4.30-5.30 pm	Prof. Puneet Tandon, PDPM IIITDM Jabalpur	<i>Hybrid Manufacturing</i>
Break 5.30 pm to 6 pm			
21	Tuesday, 6-9-2022, 6-7 pm	Prof. Sachin Maheshwari, NSUT Delhi	<i>Advancements in welding technology</i>
22	Tuesday, 6-9-2022, 7-8 pm	Prof. Sachin Maheshwari, NSUT Delhi	<i>Trends in advanced and modern welding techniques</i>

Day 6			
23	Wednesday, 7-9-2022, 3.30-4.30 pm	Dr. Sandeep Rathee, NIT Srinagar	<i>Friction stir welding (FSW)</i>
24	Wednesday, 7-9-2022, 4.30-5.30 pm	Dr. Sandeep Rathee, NIT Srinagar	<i>Friction stir process (FSP)</i>
Break 5.30 pm to 6 pm			
25	Wednesday, 7-9-2022, 6-7 pm	Dr Harshit Dave	<i>Micro machining process</i>
26	Wednesday, 7-9-2022, 7-8 pm	Prof. Prashant K Jain, PDPM IIITDM Jabalpur	<i>Issues and challenges in additive manufacturing</i>
Day 7			
27	Thursday, 8-9-2022, 3.30-4.30 pm	Dr. Sandeep Rathee, NIT Srinagar	<i>Surface composites</i>
28	Thursday, 8-9-2022, 3.30-4.30 pm	Dr. Sandeep Rathee, NIT Srinagar	<i>Surface engineering using FSW/FSP</i>
Break 5.30 pm to 6 pm			
29	Thursday, 8-9-2022, 6-7 pm	Dr. Ashish Rajak, IIT Indore	<i>High Speed Metal Forming</i>
30	Thursday, 8-9-2022, 7-8 pm	Dr. Ashish Rajak, IIT Indore	<i>High Speed Metal Joining</i>
Day 8			
31	Friday, 9-9-2022, 3.30-4.30 pm	Dr Harshit Dave, SVNIT Surat	<i>Composite 3D printing</i>
32	Friday, 9-9-2022, 3.30-4.30 pm	Dr Harshit Dave, SVNIT Surat	<i>3D printing as a tool for innovation & Startups or 3D printing in industry 4.0 era</i>
Break 5.30 pm to 6 pm			
33	Friday, 9-9-2022, 6-7 pm	Prof. Prashant K Jain, PDPM IIITDM Jabalpur	<i>Data preparation for additive manufacturing</i>
34	Friday, 9-9-2022, 7-8 pm	Prof. Prashant K Jain, PDPM IIITDM Jabalpur	<i>STL file manipulation and repairing algorithms</i>
Day 9			
35	Saturday, 10-9-2022, 9-10 am	Dr. Harshit Dave, SVNIT Surat	<i>Orbital Electro Discharge Machining process</i>
36	Saturday, 10-9-2022, 10-11 am	Dr. Sandeep Rathee, NIT Srinagar	<i>Hybrid Additive Manufacturing</i>
Break 11-11.15 pm			
37	Saturday, 10-9-2022, 11.15 am-12.15 pm	Dr Shailesh Mani Pandey	<i>Advanced Manufacturing and waste cycle management</i>
38	Saturday, 10-9-2022, 12.15-1.15 pm	Prof. Prashant K Jain, PDPM IIITDM Jabalpur	<i>Metal additive manufacturing through induction heating as alternative energy source</i>
Break 1.15-2.30 pm			
39	Saturday, 10-9-2022, 2.30-3.30 pm	Prof P.M. Pandey, IIT Delhi	<i>Research opportunities and trends in AM</i>
40	Saturday, 10-9-2022, 3.30-4.30 pm	Prof P.M. Pandey, IIT Delhi	<i>AM as a key element of Industry 4.0</i>
Valedictory and Certificate Distribution			