

# Invited Talks

1. "Hybrid Layered Manufacturing", Rapid Product Development & Manufacturing, Three Day Open CEP Workshop, IIT Bombay, February 26 – 28, 2013
2. "Hybrid Layered Manufacturing", 3D Printing, Three Day Open CEP Workshop, IIT Bombay, delivered a lecture on Hybrid Layered Manufacturing, May 20 – 22, 2013,
3. "Hybrid Layered Manufacturing", Rapid Product Development & Manufacturing, Five Day In-house CEP Workshop for VJTI Mumbai, November 26 – 30, 2013.
4. "Hybrid Layered Manufacturing", Three Day Open CEP Workshop, February 19 – 21, 2014
5. "Hybrid Layered Manufacturing", Advanced CNC Technology, Three Day Open CEP Workshop, May 5 – 7, 2014.
6. "Hybrid Layered Manufacturing", Rapid Product Development & Manufacturing Five Day In-house CEP Workshop for DTE Madhya Pradesh, July 7 – 11, 2014.
7. "Hybrid Layered Manufacturing", 3D Printing & Allied Technologies, Three Day Open CEP Workshop, July 11 – 13, 2014.
8. "Hybrid Layered Manufacturing", 3D Printing Three Day Open CEP Workshop, IIT Bombay, June 10-12, 2015.
9. "Hybrid Layered Manufacturing", Three Day Open CEP Workshop, IIT Bombay, November 2-4, 2015.
10. "Hybrid Layered Manufacturing", Three Day Open CEP Workshop, IIT Bombay, June 11-13, 2016.
11. "Hybrid Layered Manufacturing", 3D Printing – A Disruptive Technology of this Era Two Day Open CEP Workshop, IIT Bombay, August 22&23, 2016.
12. "Hybrid Layered Manufacturing", Three Day CEP Workshop for Ordnance Factories, IIT Bombay, August 29-31, 2016.
13. "Hybrid Layered Manufacturing", Two Day In-house CEP Workshop for Ordnance Factories, IIT Bombay, February 21-22, 2017.
14. "Hybrid Layered Manufacturing", Two Day Open CEP Workshop, GEC Aurangabad, March, 2017.
15. "Hybrid Layered Manufacturing", Three Day Open CEP Workshop, RV College Bangalore, March, 2017.
16. "Hybrid Layered Manufacturing", Two Day In-house CEP Workshop, IIT Bombay, February 28, 2018.
17. "PowerMill & PowerShape for 3D Printing", Moldflow Summit 2019, One-day technical summit, Pune, Maharashtra, India May 28 2019
18. "Additive Manufacturing: Can it change future?". Hands-on training and presentation on 3D printing. Advanced Pedagogies: Active Learning and Digital Tools, 5 Day Hands-on Workshop, IIT Guwahati, India, July, 1-5, 2019
19. "CNC Tool Path Planning using a CAM Package" , Workshop Training program 5 days Training program at central workshop, IIT Guwahati, India, 15th to 20th July 2019
20. "Operations on Lathe Machine", Workshop Training program 5 days Training program at central workshop, IIT Guwahati, India, 15th to 20th July 2019
21. Introduction to 3D Printing Technologies, FDP on 3D Printing, Assam Engineering College 27-11-2019
22. Introduction to a CAD Package MESA, IIT Guwahati Delivered Lectures on Introduction to CAD package, 2019
23. Introduction to a CAD Package MESA, IIT Guwahati Delivered Lectures on Introduction to CAD package, 2019
24. Introduction to 3D Printing, TEQIP-III, Five-day workshop on 3D printing and Allied Technologies IIT Guwahati 06-01-2020
25. Popular 3D Printing Processes: Liquid, TEQIP-III, Five-day workshop on 3D printing and Allied Technologies IIT Guwahati 06-01-2020
26. Popular 3D Printing Processes: Wire, TEQIP-III, Five-day workshop on 3D printing and Allied Technologies IIT Guwahati 07-01-2020
27. Popular 3D Printing Processes: Powder, TEQIP-III, Five-day workshop on 3D printing and Allied Technologies IIT Guwahati 07-01-2020
28. Rapid Manufacturing, TEQIP-III, Five-day workshop on 3D printing and Allied Technologies IIT Guwahati 08-01-2020
29. Demonstration of FDM, & HLM, TEQIP-III, Five-day workshop on 3D printing and Allied Technologies IIT Guwahati 08-01-2020
30. CAD/CAM Package for 3D printing: Demonstration, TEQIP-III, Five-day workshop on 3D printing and Allied Technologies IIT Guwahati 08-01-2020
31. 3D Printing and Allied Technologies, Short Term Course on Education Technology by Guwahati University, IIT Guwahati 29-01-2020
32. TEQIP-Fabrication and Application of Micro Devices in Thermo-fluidic Engineering IIT Guwahati 25th and 26th 02 2020 Delivered Two Lectures:
33. Micro-Additive Manufacturing of Non-Metallic Objects, TEQIP-Fabrication and Application of Micro Devices in Thermo-fluidic Engineering IIT Guwahati 25-02-2020
34. Micro-Additive Manufacturing of Metallic Objects, TEQIP-Fabrication and Application of Micro Devices in Thermo-fluidic Engineering IIT Guwahati 25-02-2020
35. "Trajectory Planning for Robots", Micro-Additive Manufacturing of Metallic Objects, TEQIP-III course on "Robotics and Automation" IIT Guwahati 04-03-2020

36. Software Skill Development Program "New Gen IEDC" IIT Guwahati, 4 Lectures through Youtube Demonstration of a CAD package: Solidworks, May-June 2020
37. Faculty Development Program (FDP) on "Research Opportunities in Advanced Manufacturing Processes" Department of Mechanical Engineering, Bharati Vidyapeeth (Deemed to be University) College of Engineering Pune on 24th June 2020 Metal Additive Manufacturing (MAM)
38. TEQIP-III Sponsored Short Term Course on "Recent Developments in Mechanical Systems" Department of Mechanical Engineering, G. B. Pant Engineering College on 9th September Metal Additive Manufacturing (MAM)
39. short term course on Advanced manufacturing processes Department of Mechanical Engineering, Katihar Engineering College, Katihar on 12th September 2020 Metal Additive Manufacturing (MAM)
40. AICTE - Short Term Training Programme NANOTECHNOLOGY AND FUNCTIONAL MATERIALS (Phase-III) Department of Mechanical Engineering, S V College of Engineering, Tirupati on 15th September Micro-Metal Additive Manufacturing ( $\mu$ -MAM)
41. TEQIP III Workshop on Virtual Experiments in Mechanical Engineering IIT Guwahati, 02 Nov 2020 Virtual experiments on Kinematics of Machinery
42. TEQIP III Workshop on Virtual Experiments in Mechanical Engineering IIT Guwahati, 02 Nov 2020 Hands on Practice session on Kinematics of Machinery Lab
43. AICTE - Short Term Training Programme NANOTECHNOLOGY AND FUNCTIONAL MATERIALS (Phase-IV) Department of Mechanical Engineering, S V College of Engineering, Tirupati on 04 Nov 2020 Omnidirectionality in Additive Manufacturing Systems
44. TEQIP III Workshop on Virtual Experiments in Mechanical Engineering IIT Guwahati, 04 Nov 2020 Hands on Practice session on Virtual Experiments in 3D printing
45. TEQIP III Workshop on Virtual Experiments in Mechanical Engineering IIT Guwahati, 06 Nov 2020 Project Presentation by Participants
46. "ToT Program by Wipro 3D" for National Institute of Electronics & Information Technology, Calicut Wipro 3D, 16 Nov 2020 Tools and Techniques for Metal AM
47. "ToT Program by Wipro 3D" for National Institute of Electronics & Information Technology, Calicut Wipro 3D, 16 Nov 2020 Omni-directionality in Additive Manufacturing Systems
48. "ToT Program by Wipro 3D" for National Institute of Electronics & Information Technology, Calicut Wipro 3D, 17 Nov 2020 Computer Aided Process Planning for 3-axis Additive Manufacturing Systems
49. "ToT Program by Wipro 3D" for National Institute of Electronics & Information Technology, Calicut Wipro 3D, 17 Nov 2020 Computer Aided Process Planning for Multi-Axis Hybrid Additive Manufacturing Systems
50. "ToT Program by Wipro 3D" for National Institute of Electronics & Information Technology, Calicut Wipro 3D, 17 Nov 2020 Guidelines for the Selection of an Appropriate Additive Manufacturing Process
51. AICTE sponsored Short Term Training Programme (STTP) on "Rapid Prototyping and Digital Manufacturing" Mechanical Engineering Department of NSS College of Engineering, Palakkad, Kerala on 23 Nov 2020 Omnidirectionality in Additive Manufacturing Systems
52. NPIU Future-Skills workshop IIT Hyderabad on "3D Printing and Design 28th Nov 2020 Omnidirectionality in Additive Manufacturing Systems
53. TEQIP-III workshop on Robotics for 3D Printing IIT Guwahati on 30th Nov 2020 Introduction to Robotics for 3D Printing
54. TEQIP-III workshop on Robotics for 3D Printing IIT Guwahati on 2nd December 2020 Introduction to 3D Printing: Liquid
55. TEQIP-III workshop on Robotics for 3D Printing IIT Guwahati on 2nd December 2020 Introduction to 3D Printing: Wire
56. TEQIP-III Short Term Course on "Micromanufacturing Processes" IIT Guwahati on 3rd December 2020 Additive Manufacturing
57. TEQIP-III workshop on Robotics for 3D Printing IIT Guwahati on 3rd December 2020 Robotics for 3D printing: Demonstration (HLM, FDM & CAM Package)
58. TEQIP-III workshop on Robotics for 3D Printing IIT Guwahati on 4th December 2020 Robotic Path Planning for 3D Printing
59. TEQIP-III workshop on Robotics for 3D Printing IIT Guwahati on 4th December 2020 Research Opportunities in Robotics & 3D Printing
60. Frontier of 3D Printing Technology and Its Industrial Applications Lakireddy Bali Reddy College of Engineering, Mylavaram, Andhra Pradesh, 8th December 2020 Omnidirectionality in Additive Manufacturing Systems
61. Addwize Training on DED Wipro 3D on 9th December 2020 Introduction to Part Building through Directed Energy Deposition
62. Online Software Skill Development Program On Computer Aided Process Planning for 3D Printing & CNC Machining, by NewGen IEDCIITG on 10th December 2020 Introduction to CAD Modeling for CNC machines and Additive Manufacturing
63. Online Software Skill Development Program On Computer Aided Process Planning for 3D Printing & CNC Machining, by NewGen IEDCIITG on 10th December 2020 CNC Programming of 2D Objects for Cutting, Engraving and 2D/2.5D Printing
64. Online Software Skill Development Program On Computer Aided Process Planning for 3D Printing & CNC Machining, by NewGen IEDCIITG on 11th December 2020 CNC Toolpath Planning for 3-Axis Machining and 3D Printing

65. Online Software Skill Development Program on Computer Aided Process Planning for 3D Printing & CNC Machining, by NewGen IEDCIITG on 11th December 2020Multi-Axis CNC Toolpath Planning for Machining and 3D printing
66. TEQIP-III short term course on Advances in Welding and Additive ManufacturingIITG on 12th December 2020 Omnidirectionality in Additive Manufacturing Systems
67. TEQIP-III short term course on Advances in Welding and Additive ManufacturingIITG on 12th December 2020 Introduction to Wire-Arc Additive Manufacturing
68. TEQIP-III short term course on Advances in Welding and Additive ManufacturingIITG on 12th December 2020 Computer-Aided Process Planning for Wire-Arc Additive Manufacturing: Demonstration & hands-on-practice session
69. Frontier of 3D Printing Technology and Its Industrial ApplicationsLakireddy Bali Reddy College of Engineering, Mylavaram, Andhra Pradesh, 8th December 2020Computer-Aided Process Planning for Additive Manufacturing
70. Faculty Development Program (e-FDP) entitled – “3D Printing and Design with Interdisciplinary Applications” (3DPDIA-20)Dr. B.R. Ambedkar National Institute of Technology, 17th December 2020Metal Additive Manufacturing
71. TEQIP-III: 5-Days Workshop on “Advanced Manufacturing Technology”, 21st – 25th Dec 2020IIT Guwahati, 21st December 2020Additive Manufacturing
72. Industrial Internet of things Program by Wipro 3DG Pullaiah College of Engineering and Technology and Ravindra College of Engineering for Women, 28 Dec 2020Introduction to Robotics for 3D Printing
73. Industrial Internet of things Program by Wipro 3DG Pullaiah College of Engineering and Technology and Ravindra College of Engineering for Women, Wipro 3D, 29 Dec 2020Utilization of open sources for Computer Aided Process Planning of Additive Manufacturing: Hands-on-Demonstration
74. Industrial Internet of things Program Wipro 3DG Pullaiah College of Engineering and Technology and Ravindra College of Engineering for Women, Wipro 3D, 30th Dec 2020Computer Aided Process Planning for Multi-Axis Additive Manufacturing: Live Demonstration
75. Frontier of 3D Printing Technology and Its Industrial Applications Lakireddy Bali Reddy College of Engineering, Mylavaram, Andhra Pradesh 30th Jan 2021Computer Aided Process Planning for Additive Manufacturing
76. Frontier of 3D Printing Technology and Its Industrial Applications Lakireddy Bali Reddy College of Engineering, Mylavaram, Andhra Pradesh 30th Jan 2021Omnidirectionality in Additive Manufacturing Systems
77. Online Faculty Development Program (eFDP), on "Hybrid Machining Solutions for Complex/Typical Engineering ApplicationsDr. B. R. Ambedkar National Institute of Technology Jalandhar, 02- Feb 2021CNC Toolpath Planning for Hybrid Manufacturing Systems
78. Wipro3D Addwize IOT Program Ramachandra College of Engineering 05 Feb 2021**Computer Aided Process Planning –3-axis AM**
79. Wipro3D Addwize IOT Program Ramachandra College of Engineering 05 Feb 2021Robotics for 3D Printing
80. TEQIP-III, 3 Days Workshop Assam Science and Technology University, Guwahati Assam Science and Technology University, Guwahati, 11-Feb-2021**Introduction to the 3D Printing**
81. TEQIP, 5 day workshop, Recent Advances in Manufacturing Science and Technology (RAMST), 22-26 Feb 2021 Indian Institute of Technology Guwahati, Guwahati, 23 – Feb 2021Wire Arc Additive Manufacturing Processes
82. TEQIP, 5 day workshop, Recent Advances in Manufacturing Science and Technology (RAMST), 22-26 Feb 2021 Indian Institute of Technology Guwahati, Guwahati, 23 – Feb 2021Computer-Aided Process Planning for Wire Arc Additive Manufacturing: Demonstration and Hands-on Practice Session
83. 'Prototype/process Design and Development- Prototyping' Institute Innovation Council (IIC) of DTU and Ministry of Education (MoE) GOI. Delhi Technical University, Delhi, Introduction to Robotics for 3D Printing, 12-03-2021
84. Introduction to Robotics for 3D Printing Series I: Introduction to Rapid Prototyping and Digital Manufacturing Department of Mechanical Engineering NSS College of Engineering, 13-03-2021, Omnidirectionality in Additive Manufacturing Systems
85. Two Week ONLINE Faculty Development Programme on “Recent Advances In Materials And Challenges In Manufacturing Techniques” Department of Mechanical Engg, UCEK-JNTU Kakinada, AP, 02-04-2021 Omnidirectionality in Additive Manufacturing Systems
86. Online Workshop on “The Application of Internet of Things (I.O.T) in Industry 4.0” Jodhpur Institute Of Engineering & Technology, 26 April 2021Mechanisms for Powder Feedstock Handling in Directed Energy Deposition
87. Orientation program for the faculty members of Siddaganga Institute of Technology, Tumkur, by Wipro3D, Updating the mechanical engineering pedagogy using new technologies – IITG experiences, 21-05-2021
88. Amity University, Kolkata, 25-05-2021, Toolpath Planning for Additive Manufacturing, 25-05-2021
89. GMIT - Wipro 3D Addwize Program, Computer Assisted Teaching and Learning in Manufacturing and Kinematics of Machinery, 29-05-2021
90. NPIU Future-Skills workshop on "3D Printing and Design" at IIT Hyderabad, Powder Handling Systems for Directed Energy Deposition Process, 21<sup>st</sup> June 2021
91. NPIU Future-Skills workshop on "3D Printing and Design" at IIT Hyderabad, Omnidirectionality in Additive Manufacturing Systems, 22<sup>nd</sup> June 2021
92. SWAYAM - NPTEL Office, IIT Kharagpur, Webinar on Effective Online Teaching & Learning in Technical Education, “Effective Online Laboratory Teaching – IITG MED Experiences”, 10<sup>th</sup> July 2021

93. Online Workshop on 3D PRINTING: TECHNIQUES AND THEIR APPLICATIONS IN BIOMEDICAL DEVICES, by IIT Guwahati, Rapid Manufacturing of Biomedical Devices Process Alternatives, Selection and Planning, 15<sup>th</sup> July 2021
94. Future Skill Training Workshop on "3D printing and Design" under the aegis of NPIU, TEQIP III, by College of Engineering Pune, "Omnidirectionality in Additive Manufacturing Systems", 7<sup>th</sup> August 2021.
95. Two Weeks Faculty Development Programme on Manufacturing Technology Research and Management (MTRM), by Aliah University, Kolkata, "Introduction to Additive Manufacturing, 12<sup>th</sup> August 2021
96. Future Skill Training Workshop on "3D printing and Design" under the aegis of NPIU, TEQIP III, by College of Engineering Pune, "Powder Handling Systems for Metal Additive Manufacturing", 16<sup>th</sup> August 2021.
97. ATAL Sponsored FDP in Additive Manufacturing in Aerospace, NIT Srinagar, "Omnidirectionality in Additive Manufacturing Systems", 25<sup>th</sup> August 2021
98. Government Officers Training (GOT) on Introduction to Additive Manufacturing & its applications, C-DAC, Hyderabad, "STL Graphics", 15 Sep 2021
99. Government Officers Training (GOT) on Introduction to Additive Manufacturing & its applications, C-DAC, Hyderabad, Omni-Directionality in AM, 15 Sep 2021
100. AICTE'S TRAINING AND LEARNING ACADEMY (ATAL) Sponsored One Week Faculty Development Program (FDP) on '3D PRINTING AND DESIGN', "Powder Handling Systems for Directed Energy Deposition Process", Sardar Patel College of Engineering, Mumbai, 24<sup>th</sup> Sept 2021
101. "Industrial additive manufacturing for aerospace, automotive and medical sectors" with WIPRO 3D supported by the Royal Academy of Engineering, UK, "Fundamentals of Wire Arc Additive Manufacturing", 10<sup>th</sup> Oct 2021
102. AICTE - FDP - JNTUH for conducting Online Short Term Training Programme on "3D Printing for Sustainable Development, JNTUH Kukatpally, Hyderabad "Additive Manufacturing Technologies", 26<sup>th</sup> Oct 2021
103. AICTE - FDP - JNTUH for conducting Online Short Term Training Programme on "3D Printing for Sustainable Development, JNTUH Kukatpally, Hyderabad "CAD/CAM for Additive Technologies", 27<sup>th</sup> Oct 2021
104. AICT Online FDP on 3D Printing Basics and Applications, "MBM Engineering College Jodhpur, "CAD models for Additive Manufacturing", 28<sup>th</sup> Oct 2021
105. One Week online "AICTE-ISTE INDUCTION/REFRESHER PROGRAM on Issues and Challenges in Teaching Learning of Engineering Mechanics and Drawing, Nowgong Polytechnic, Nagaon Assam, "Utilization of open-source software for effective teaching of Computer-Aided Design (CAD): Demonstration & hands-on training", 21<sup>st</sup> December 2021
106. One Week online "AICTE-ISTE INDUCTION/REFRESHER PROGRAM on Issues and Challenges in Teaching Learning of Engineering Mechanics and Drawing, Nowgong Polytechnic, Nagaon Assam, "Effective Online Laboratory Teaching and DIY Experiments: Case - Studies", 22<sup>nd</sup> December 2021
107. One week AICTE-ATAL sponsored faculty development program (FDP) on "Advancement in Manufacturing Technology", SOS Engg. & Technology Bilaspur, Simulation software in additive manufacturing, 18<sup>th</sup> Jan 2022
108. ADDITIVE MANUFACTURING AND CHARACTERISATION, by Chennai Institute of Technology, "Fundamentals of Wire Arc Additive Manufacturing", 21 Feb 2022
109. AICTE Sponsored QIP Short Term Course on Additive Manufacturing of Biomedical and Aerospace Components, "IIITDM Kancheepuram", "Effect of Part Orientation on Strength" 22 Feb 2022
110. CNC Machine: An overview on research possibilities by "NIT Shrinagar", "Tool Path Planning for 5 Axis CNC Machines", 08 March 2022
111. ASTM Classification on Additive Manufacturing Technologies and Tool Path Planning for Additive Manufacturing, ADDITIVE MANUFACTURING MODELLING AND SIMULATION TECHNIQUES, A 3-days workshop conducted by Vellore Institute of Technology, Vellore 24<sup>th</sup> Nov 2022
112. A System-Level Classification of Additive Manufacturing, 4 days' workshop on Advances in Additive Manufacturing (3D Printing) by IIT Jodhpur, "", 6<sup>th</sup> December 2022
113. Functionally Graded Materials TSP Solver-based Toolpath for Additive Manufacturing of Density-based, International Conference on Precision, Micro, Meso and Nano Engineering by Indian Institute of Technology Kanpur, "", 8-10<sup>th</sup> December 2022
114. Introduction to Advancement in 3D Printing and Bio-printing, International Conference on Biomaterials, Regenerative Medicine and Devices by IIT Guwahati, "", 14<sup>th</sup> December 2022
115. Introduction, Basic Concepts and Case Studies of DFAM, Programme on Design for Additive Manufacturing by CLD-HRDI, WRI & CTM-AMPT (Online through MS Teams), 11 Jan. 2023
116. 5-axis and Robotic Toolpath Planning for WAAM, Programme on Design for Additive Manufacturing by CLD-HRDI, WRI & CTM-AMPT (Online through MS Teams), 12 Jan. 2023
117. Multi-Axis Multi-Material, Wire Arc Additive Manufacturing, Indo – German Science and Technology Centre outreach program, 30 Jan 2023
118. A Novel Non-Pneumatic Method of Powder Feedstock Handling for Directed Energy Deposition-based Additive Manufacturing International Conference on Powder Metallurgy and Particulate Materials (PM 23) + Exhibition & 48 Annual Technical Meeting of PMAI, The Lalit Mumbai 15<sup>th</sup> March 2023
119. Sajan Kapil A Novel Non-Pneumatic Method of Powder Feedstock Handling for Directed Energy Deposition-based Additive Manufacturing Online 5 Days FDP : OPTIMIZATION, SOFT COMPUTING AND NUMERICAL MODELING IN ADVANCED MANUFACTURING VIT, Vellore 13-17 March 2023
120. Sajan Kapil Metal Additive Manufacturing 1<sup>st</sup> GILP JD International Symposium, Gifu University Gifu University, Japan 9<sup>th</sup> March 2023

121. Sajan Kapil, Ambrish Singh, "A Novel Non-Pneumatic Method of Powder Feedstock Handling for Directed Energy Deposition-based Additive Manufacturing", International Conference on Powder Metallurgy and Particulate Materials (PM 23) + Exhibition & 48 Annual Technical Meeting of PMAI13 to 15 March 2023
122. Sajan Kapil, A Novel Non-Pneumatic Method of Powder Feedstock Handling for Directed Energy Deposition-based Additive Manufacturing, "Online 5 Days FDP: Optimization, Soft Computing and Numerical Modeling in Advanced Manufacturing 13-17 March 2023",
123. Sajan Kapil, "CAPP for Additive Manufacturing", INFINITY SOLUTIONS: Autodesk Pune 25 April 2023.
124. Sajan Kapil, "CAPP for Robotic DED Systems", Metal Additive Manufacturing Symposium 25-26 May 2023 by AMChronicle
125. Sajan Kapil, "Computer-Aided Process Planning for Additive Manufacturing and DFAM", Karyashala High-End Workshop: NIT Tiruchirappalli, 6 June 2023.
126. Sajan Kapil, "Toolpath for obtaining homogeneous microstructural and mechanical properties in wire arc additive Manufactured parts", Recent Trends in Direct energy Deposition (DED): One Day Seminar by School of Mechanical Engineering VIT, Vellore, 7 June 2023.
127. Sajan Kapil, "Introduction to Additive Manufacturing", Faculty Development Program (FDP), Center for De Novo Technologies & Ergonomics in Industry 4.0, GGSIPU, Delhi, 25<sup>th</sup> July 2023.
128. Sajan Kapil, "Research and Development Activities", Semiconductor Technology, Additive Manufacturing, and Packaging (STAMP-2023), 27 Oct 2023.
129. Sajan Kapil, "Research and Development Activities at Additive Manufacturing Lab IIT Guwahati", Democratising 3D Technology with Education & Research to Benefit all, 3D GEM 9-10 Dec 2023 (**Invited Talk, poster presentation Jury member**)
130. Sajan Kapil, "Utilisation of Traveling Salesman Problem for Generating Toolpath to Fabricate Density based FGMs by Additive Manufacturing", ASME Aero 3D conference 13-14 Dec 2023.
131. Sajan Kapil, "Realization of Large-to-Small Objects by Metal Additive Manufacturing," Aeronautical Development Agency, Bangalore 15<sup>th</sup> Dec 2023
132. Sajan Kapil, "3-axis Toolpath for WAAM," Online Training Programme on "Wire-Arc Additive Manufacturing Process" on 18th December 2023 & 19th December 2023 - Organized by Corporate R&D BHEL
133. Sajan Kapil, "5-axis Toolpath for WAAM," Online Training Programme on "Wire-Arc Additive Manufacturing Process" on 18th December 2023 & 19th December 2023 - Organized by Corporate R&D BHEL
134. Sajan Kapil, "3D Printing: Introduction, Application and Research", India International Science Festival -2023, Faridabad Jan 17-20 2024.
135. Sajan Kapil, "Additive manufacturing research activities at IIT Guwahati", CoE Cyber Physical Defence Systems, CSE Department IIT Guwahati
136. Sajan Kapil, Ambrish Singh, "DEM Analysis for the Development of a Gravity-Driven Multi-Material Powder DED System", Powder Technology Conclave and Exhibition, Thapar Institute of Engineering & Technology (TIET), March 6-8, 2024