Centurion University of Technology and Management

Bhubaneswar, Jatni, Odisha -752050

Workshop on:

3D Additive Manufacturing

Date: 19-05-2020

No. of Students and/or Faculty Participated: 173

Venue: ONLINE, Centurion University of Technology & Management

Resource Person

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About the Session:

The precise topics covered by various experts were Medical Device Innovation and 3D Printing, 3D Printing of Small Medical Devices, Advances in Design and Development of Assistive Devices, Design Thinking in Healthcare Product Development, Manufacturing Smart Wearable: A Close Look at AI Infusion, 3D printing for Assistive Devices, Design & Printing of Innovative Lower Limb Orthotics, Generative Design for Additive Manufacturing, Additive Manufacturing for Surgical Instruments, Design & Printing of Lower Limb Customized Prosthetics, 3D printing for orthopedic and dental implants: Convergence of knowledge, Advancements in the field of Upper Limb Prosthetics with the use of 3DP Tech and Meditation for Well Being.

Objectives:

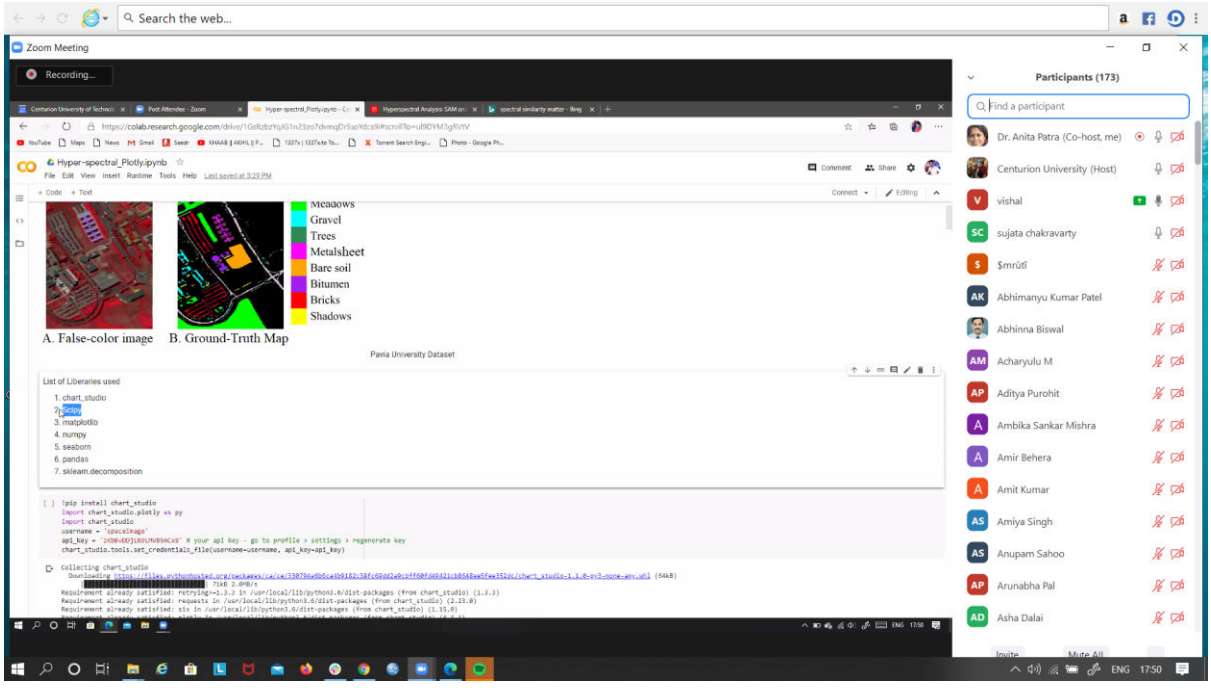
- To create awareness about the state-of-the-art technologies in AM.
- To learn the CAD & medical modelling, buildsetup preparation for AM machines through handson sessions.
- To enable participants to select the right technologies and materials for fabricating parts.
- To provide exposure to various plastic and metal based AM machines through online demos. To enable participants to design/develop the industrial, real-life, and pedagogical applications.

Outcomes:

The Primary objective of this course is to explore the fundamentals and advances in 3D printing by providing a common platform to interact with the experts of the field. The contents include introduction to advanced techniques used in additive manufacturing, their end applications, and recent developments. This course will be a platform to gather, provide clear cut ideas regarding 3D printing and its use in biomedical, automobile and aerospace to researchers who are working and planning to work in this field. The program also motivates research ideas with practical applications by the experts in this field of research. This program has been designed to address the nuances of online teaching in detail and help the attendees to develop & deliver online content professionally. The FDP will provide the attendees with hands-on experience on various AM technologies and exposure to applications

of AM in different domains.

Screenshot of the session along with participants



Screenshot during the session of 3D Additive manufacturing

Prabhat K. Pattnaik
FDP Coordinator

Dr. Prasanta Ku. Mohanty
Dean Academic