Schedule

FDP Application Number: 1716403264
Title of the FDP: Bio-Printing of Tissues and Organs An Evolution of Technology and Materials

FDP Start Date: 18.11.2024

Offline (1st Week)

FDP End Date: 30.11.2024

Offinic (1 Week)									
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6				
9:00 – 9:30 - Inauguration									
9:30 – 12:00 Session 1	9:30 – 12:00 Session 3	9:30 – 12:00 Session 5	9:30 – 12:00 Session 7	9:00 – 12:00 Session 9	9:00– 12:00 Session 12				
1. Name of the Expert: Dr. Y. Ravi Kumar. 2. Designation: Professor, In charge Additive Manufacturing Facility 3. Organization: National Institute of Technology Warangal (NITW) 4. Experience in Years:18 5. Topic to be taught: Advanced Bio-materials and Modelling Tools in Bio-medical Applications	Name of the Expert: Dr. Manu Srivastava. Designation: Assistant Professor. Organization: IIITDM Jabalpur. Experience in Years: 17 Topic to be taught: 3D Bioprinting for Tissue Regeneration	1. Name of the Expert: Himansu Sekhar Nanda. 2. Designation: Assistant Professor. 3. Organization: IIITDM, Jabalpur. 4. Experience in Years: 9 5. Topic to be taught: 3D Bioprinting for Tissue Regeneration - Current Challenges and Perspective.	Name of the Expert: Kishore Kumar Gajrani. Designation: Assistant Professor. Organization: IIITDM Kancheepuram. Experience in Years: 7 Topic to be taught: Current Challenges and Future Aspects of 3D Bioprinting Techniques.	 Name of the Expert: Industry Expert Mr. Praveen Jadi. Designation: Manager/3D Products and Solutions. Organization: 3D Mono Tech, Chennai. Experience in Years: 6 Topic to be taught: 3D Organ Printing Technology- The Future of Organ Transplants. 	 Name of the Expert: Industry Expert Raghu Prasad. C. Designation: Manager – Phillips Additive. Organization: Phillips M/C Tools India Pvt. Ltd., Mumbai. Experience in Years: 7 Topic to be taught: Overview of Materials and Techniques in 3D Bioprinting. 				
12:00 – 1:00 Article Discussion 1.Title of the Research Paper: 3D printing of biomedical materials and devices 2. Name of the journal: Journal of Materials Research-Springer 3. Year of Publication: 2021	12:00 – 1:00 Article Discussion 1.Title of the Research Paper: An Overview on Materials and Techniques in 3D Bioprinting Toward Biomedical Application 2. Name of the journal: Engineered Regeneration-Science Direct 3. Year of Publication: 2021	12:00 – 1:00 Article Discussion 1.Title of the Research Paper: Natural and Synthetic Bioinks for 3D Bioprinting 2. Name of the journal: Advanced NanoBiomed Research-Wiley 3. Year of Publication: 2021	12:00 – 1:00 Article Discussion 1.Title of the Research Paper: The Regulatory Challenge of 3D Bioprinting 2. Name of the journal: Regenerative Medicine-Taylor & Francis 3. Year of Publication: 2023		12:00–1:00 Article summary				
1:00 – 1.30 -Lunch	1:00 – 1.30 -Lunch	1:00 – 1.30 -Lunch	1:00 – 1.30 -Lunch	12:00-12:30- Lunch	1:00 – 1.30 -Lunch				
1.30-4.00 Session 2	1.30-4.00 Session 4	1.30-4.00 Session 6	1.30-4.00 Session 8	12:30 – 3.00 Session 10	1.30 – 4:00 Session 13				
 Name of the Expert: Dr. Y. Ravi Kumar. Designation: 	1. Name of the Expert: Dr. Manu Srivastava 2. Designation: Assistant Professor. 3. Organization: HITDM Jabalpur. 4. Experience in Years: 17 5. Topic to be taught: 3D Bioprinting for Organ Regeneration	1. Name of the Expert: Himansu Sekhar Nanda. 2. Designation: Assistant Professor. 3. Organization: HITDM, Jabalpur. 4. Experience in Years: 9 5. Topic to be taught: 3D Bioprinting of Cartilage Tissue -Current Challenges and Perspective	 Name of the Expert: Kishore Kumar Gajrani. Designation: Assistant Professor. Organization: HITDM Kancheepuram. Experience in Years: 7 Topic to be taught: Cost effective 3D Bioprinting methods 	 Name of the Expert: Srinivasa Prakash Regalla. Designation: Professor. Organization: BITS Pilani, Hyderabad Experience in Years:25 Topic to be taught: Mechanical Considerations of Bio printed Tissue 	1. Name of the Expert: Prashant K. Jain. 2. Designation: Professor. 3. Organization: IIITDM, Jabalpur. 4. Experience in Years: 17 5. Topic to be taught: Data preparation and current research trends in Additive Manufacturing				
4:00 - 5:00 Article Discussion 1.Title of the Research Paper: 3D printing technology; methods, biomedical applications, future opportunities and trends 2. Name of the journal: Journal of Materials Research and Technology -Science Direct 3. Year of Publication: 2021	4:00 – 5:00 Article Discussion 1.Title of the Research Paper: Advances in 3D bioprinting of tissues/organs for regenerative medicine and in-vitro models 2. Name of the journal: Biomaterials- Science Direct 3. Year of Publication: 2022	4:00 – 5:00 Article Discussion 1.Title of the Research Paper: 3D bioprinting: Materials, processes, and applications 2. Name of the journal: CIRP Annals 3. Year of Publication: 2022	4:00 – 5:00 Article Discussion 1.Title of the Research Paper: Wearable and implantable devices for drug delivery: Applications and challenges 2. Name of the journal: Biomaterials- Elsevier 3. Year of Publication: 2022	3:00 - 5:30 Session 11 1. Name of the Expert: Srinivasa Prakash Regalla. 2. Designation: Professor. Organization: BITS Pilani, Hyderabad. 4. Experience in Years: 25 Topic to be taught: Organ Modeling	4:00 – 5:00 Article Summary				

Offline (2nd Week)

Day 7	Day 8	Day 9	Day 10	Day 11	Day 12
9:30 – 12.00 Session 14 1. Name of the Expert:	9.30-5.00 Industry based problem solving	9.30-5.00 Industry based problem solving	9.30-5.00 Industry based problem solving	9.30-5.00 Industry based problem solving	
Dr. Mamilla Ravi Sankar. 2. Designation: Professor. 3. Organization: IIT, Tirupathi. 4. Experience in Years: 15 5. Topic to be taught: 3D Printing of Animal inspired microfluidics for Ayurvedic Biomedical Applications	1. Name of the Organization: Medical Technology in India, Healthcare Devices, IoT in AMTZ 2. Complete address with pin code: Campus Pragati Maidan VM Steel Project S.O Vizag, Pin -530031	1. Name of the Organization: Medical Technology in India, Healthcare Devices, IoT in AMTZ 2. Complete address with pin code: Campus Pragati Maidan VM Steel Project S.O Vizag, Pin -530031	 Name of the Organization: Medical Technology in India, Healthcare Devices, IoT in AMTZ Complete address with pin code: Campus Pragati Maidan VM Steel Project S.O Vizag, Pin -530031 	1. Name of the Organization: Medical Technology in India, Healthcare Devices, IoT in AMTZ 2. Complete address with pin code: Campus Pragati Maidan VM Steel Project S.O Vizaq,	9.30-1.30 - Team wise presentation of the output
12:00 – 1:00 - Lunch	Andhra Pradesh – India 3. Industry Type:	Andhra Pradesh – India 3. Industry Type:	Andhra Pradesh – India 3. Industry Type:	Pin -530031 Andhra Pradesh – India	1.30-2.00- Lunch
1:00 - 3:30 Session 15 1. Name of the Expert: Dr. Mamilla Ravi Sankar. 2. Designation: Professor. 3. Organization: IIT, Tirupathi. 4. Experience in Years: 15 5. Topic to be taught: Finishing of 3D Printed Complex Biomedical Devices	Manufacturing and Research 4. Area of specification: Creation and customization of medical devices and implants tailored to individual patients' needs.	Manufacturing and Research 4. Area of specification: Creation and customization of medical devices and implants tailored to individual patients' needs.	Manufacturing and Research 4. Area of specification: Creation and customization of medical devices and implants tailored to individual patients' needs.	 Industry Type: Manufacturing and Research Area of specification: Creation and customization of medical devices and implants tailored to individual patients' needs 	2.00-3.00 Reflection journal
3:30 - 6.00 Session 16					3.00-4.00 - Feedback
 Name of the Expert: Rakesh Koppunuru. Designation: Technical Cum Industry Officer. Organization: National Centre for Additive Manufacturing (NCAM). Experience in Years: 12 Topic to be taught: Commercial aspects of Bio printed Implants 					4.00-5.00 Valedictory Session