

Schedule

Medical Image Processing for Biomedical Applications and Additive Manufacturing using MAGICS and MIMICS

(MIP-BAAM)

Day 1		09:00-09:30	Registration
		09:00-10:00	Inaugural
	Session-1	10:00-11:00	Introduction to MIMICS and MAGICS
		11:00-11:10	Tea Break
	Session-2	11:10-01:10	Basics of Image processing
		01:10-01:50	Lunch Break
	Session-3	01:50-03:50	Additive Manufacturing Processes, issues and Applications
		03:50-04:00	Tea Break
Session-4	04:00-06:00	Medical Image Analysis with MATLAB	
Day 2	Session-1	09:00-11:00	Basic tools and interface of MIMICS
		11:00-11:10	Tea Break
	Session-2	11:10-01:10	Recent Advances in imaging technologies in dentistry: Making the invisible Visible
		01:10-01:50	Lunch Break
	Session-3	01:50-03:50	X Ray and CT Scan Images with MATLAB
		03:50-04:00	Tea Break
Session-4	04:00-06:00	Hands on practice with MIMICS	
Day 3	Session-1	09:00-11:00	Region growing of biomedical images with MIMICS
		11:00-11:10	Tea Break
	Session-2	11:10-01:10	Data preparation for Additive Manufacturing with MATLAB
		01:10-01:50	Lunch Break
	Session-3	01:50-03:50	Basic tools and interface of MAGICS
	03:50-04:00	Tea Break	
Session-4	04:00-06:00	3D modelling using MIMICS	
Day 4	Session-1	09:00-11:00	STL file errors and Repairs using MAGICS
		11:00-11:10	Tea Break
	Session-2	11:10-12:10	3D Printed Lower Limb Prosthetics and Orthotics: Opportunities and Challenges
	Session-3	12:10-01:10	Modelling of Porous Lattice Structures for Orthopaedic Implants using Intra lattice/ Grasshopper
		01:10-01:50	Lunch Break
	Session-4	01:50-03:50	STL editing and pre-processing of solid model for using MAGICS
		03:50-04:00	Tea Break
Session-5	04:00-05:00	Vibrations analysis of endodontic files and signal processing with MATLAB	
Session-6	05:00-06:00	Quiz/Presentations by participants	
Day 5	Session-1	09:00-10:00	Guided Endodontics
	Session-2	10:00-11:00	Future innovative designs using Additive Manufacturing
		11:00-11:10	Tea Break
	Session-3	11:10-01:10	Hands on with 3D printing
		01:10-01:50	Lunch Break
	Session-4	01:50-03:50	Application of Stereo-lithography in Cranio-maxillofacial surgery
		03:50 onwards	Valedictory, feedback followed by certificate distributions
		High Tea	