


M.S. Ramaiah University of Applied Sciences				
Name of the Research Centre		Centre for Biomedical Systems and 3D Printing Research (CBS3DPR)		
Address of the Research Centre		#470-P, Peenya Industrial Area, 4th Phase, Bengaluru-560058		
Mission of the Research Centre		We are committed to an endeavour of bringing together the Bio-Medical Engineering, Health Care and Pharmaceutical Science fraternities to seek solutions to the challenges in the bio-medical systems using contemporary technologies		
Research Goals of the Centre		<ul style="list-style-type: none"> To design, model, simulate and develop the Biomedical devices using the concepts of Bio-Control engineering, Bio-Mechanics, Bio-medical instrumentation, and digital signal processing/image processing algorithms To design and develop healthcare mobile applications, Clinical Database Management Software (CDMS) and virtual surgery/surgical simulations To develop novel simulation model of bio-medical imaging and image processing systems optimizing the signal processing, image processing, machine learning and pattern recognition algorithms To model, simulate and analyse the human physiological systems and sub-systems from pharmaco-kinetics and pharmaco-dynamics perspective To develop 3D modeling from 2D CT/MRI image and 3D printing of Anatomy models To transfer technologies developed for commercialization and entrepreneurship To disseminate knowledge on principles and current practices of bio-medical and 3D printing research To develop and pursue joint initiatives for collaboration and partnership with Universities, Research Centres and Industries to offer solution to societal relevant problems 		
Head of the Research Centre		Name with Qualification		
		Dr. T. Christy Bobby, Ph.D. - Head Assoc. Professor, Dept. of ECE, FET Email ID: christy.ec.et@msruas.ac.in Mobile No.: +91 - 99868 53888		
Research Groups		Bio-Medical Signal Processing	Bio-Medical Imaging and Image Processing	Bio-Medical System Modelling and Simulations
Research Topics		1. Signal Processing Algorithms 2. Machine Learning 3. Pattern Recognition 4. Bio-Control Engineering 5. Bio-Medical Instrumentation	1. Medical Imaging and Instrumentation 2. Image Processing Algorithms 3. Medical Visualisation 4. 3D Printing	1. Medical Imaging 2. Signal Processing 3. Pattern Recognition 4. Artificial Intelligence 5. Machine Learning 6. Drug - Disease Simulations 7. Biomechanical Simulations
Research Faculty		1. Ms. S. Deepthi, B.E., M.Sc. [Engg]	1. Dr. Subarna Chatterjee, Ph.D. 2. Dr. Christy Bobby, Ph.D. 3. Dr. N. Rakesh, MDS 4. Dr. V. Shwetha, MDS 5. Mr. L. S. Praveen, B.E., M.Sc. [Engg] 6. Mrs. M. Lasitha, B.E., M.Sc. [Engg]	1. Dr. V. Shwetha, MDS 2. Dr. N. Shruthi, MDS 3. Mr. L. S. Praveen, B.E., M.Sc. [Engg] 4. Ms. Nikita S. Valke, B.E., M.Tech.
Research Facilities		Available	1. Modelica 2. ITK/VTK 3. 3D Printing	1. ITK/VTK 2. Moli and PKSim 3. HumMod 4. CFD tools 5. 3D Printing
		Being Created	1. PNEUMA 2. EONS 3. LYSIS	1. Mimics 2. EONS 3. PNEUMA
Journals Available		1. InTech 2. IEEE (Bio-Engineering)	1. InTech 2. IEEE (Bio-Engineering)	1. InTech 2. IEEE (Bio-Engineering)
Research Journals for Publication (SCOPUS and WoS)		1. IEEE (Medical Engineering and Physics) 2. IEEE(Biomedical Signal Processing and Control) 3. Science Direct (Health Science) 4. Springer (Biomedical Sciences and Medicine) 5. Elsevier (Engineering and Technology)	1. IEEE (Medical Engineering and Physics) 2. Science Direct (Health Science) 3. Springer (Biomedical Sciences and Medicine) 4. Elsevier (Engineering and Technology)	1. IEEE Transactions on Biomedical Circuits 2. IEEE Reviews in Biomedical Engg. 3. IEEE Transactions on Biomedical Engg.
Masters Dissertation		http://www.msruas.ac.in/research/inhouse_publications		
Ph.D. Thesis		http://www.msruas.ac.in/doctoral_research		