Annexure-F

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN AND MANUFACTURING (IIITDM) KANCHEEPURAM

INTRODUCTION OF NEW COURSE

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Course Title	Introduction to Biomedical Engineering	Course Code						
Dept./	Sciences and	Structure(LT	3		1	0	4	
Specialization	Humanities	PC)	5		1	0	4	
To be offered for	UG	Status	Core		j	Elective -		
Faculty Proposing the course	Dr. A. Gowri and Dr. Uttam M. Pal	Туре	New			Modifica	Modification	
Recommendation fro	om the DAC Date of DAC							
External Expert(s)	 Prof. Rohit Srivastava, Professor, Biosciences and Bioengineering, IIT Bombay Prof. Nagarajan Ganapathy, Assistant Professor, Biomedical Engineering, IIT Hyderabad 							
Pre-requisite	None	Submitted for	approval			49 th Sen	ate	
Learning Objectives	 This course is intended To introduce the students with the field of biomedical engineering. To impart knowledge on various diagnostic and therapeutic equipments. To explain the fundamentals of the prosthetic devices. 							
Learning Outcomes *** See rationale at the end Contents of the course (With approximate break-up of hours for L/T/P)	 On successful completion of the course, the students will be able to: Determine the role of biomedical engineering in clinical interpretation. Understand the working principles of various medical equipments. Appreciate the role of biomedical engineers in the society. 							
Textbooks	 Enderle, John D, Bronzino, Joseph D, Blanchard, Susan M- Introduction to Biomedical Engineering-ElsevierInc2ndedition,2005. R S Khandpur, Handbook of biomedical instrumentation, 3rd ed., 2014, ISBN:9789339205430, McGraw Hill Education, Pvt. Ltd. 							
Reference Books	 Christe, B., Introduction to Biomedical Instrumentation, The technology of patient care, 2nded., 2017,ISBN:9781107185012, Cambridge University Press. Joseph J. Carr & John M. Brown, Introduction to Biomedical Equipment Technology, 4th ed., 2000, ISBN:9780130104922, Pearson publishers. 							