

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, RAMAPURAM CAMPUS, CHENNAI- 89

FACULTY OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE



OVERVIEW

The medical devices and healthcare industry is witnessing transformation due to converging technologies, evolving regulatory compliances, and changing market demands. Medical devices are becoming more connected than ever and are shaping new solutions to offer value for healthcare such as improved quality of life for patients with chronic illness, reduced cost of treatment, and more. The changing technology makes it imperative for medical devices companies to adopt a strategic approach by leveraging technology advancements in multiple areas such as IoT, cloud, AI, and analytics to drive innovation that addresses market needs and challenges.

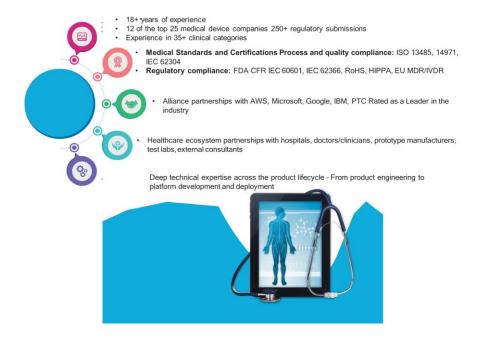
Capgemini's medical device engineering practice brings solutions and services that help our clients in designing customized devices with end-to-end product development and collaborate through the complete medical device valuechain. We also help clients retain their competitive edge by leveraging new technologies to optimize R&D costs and productivity, reduce time-to-market, improve supply chain efficiencies, strengthen partner ecosystem, and proactively seek new opportunities.

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COURSES DETAILS

Department of biomedical engineering by collaborating with Cappemini offers the value-added course for the third year Biomedical Engineering students of SRMIST, Ramapuram campus for the current even Semester academic year (2022-2023 Even Semester). This offer is given for the students who have opted for Superset placement students.

The details are attached below:

The course details are as follows:

Course Code: 18BMV471T

Course Name: Requirement Engineering and Medical Devices

Total No of students opted: 20Nos

COURSE DESCRIPTION

This online course begins with an introduction to the fundamental concepts of requirements engineering and how they relate to medical device design. Participants will learn how to define user needs and translate them into design input requirements that meet the needs of patients, healthcare providers, regulators and other key stakeholders.



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The course is designed for medical device engineers who want to gain a deep understanding of the principles and practices of requirements engineering. It is based on requirements engineering best practices, ISO 13485 and QSR requirements and it covers the entire process of requirements engineering from user needs to design input requirements. The course also covers the importance of traceability.

LIST OF STUDENTS ENROLLED FOR THIS COURSE

<u>S.NO</u>	NAME OF THE STUDENT	REGISTER NUMBER
1	NITHIESH RAJAN N B	RA2011013020001
2	ARTHI T	RA2011013020004
3	KEERTHANA R	RA2011013020008
4	LOKESH KUMAR R	RA2011013020010
5	NEESANTHI M	RA2011013020013
6	IMMACULATE SUSAN A	RA2011013020014
7	ARSHWATHA NIVETHA R	RA2011013020020
8	ROSHINI M	RA2011013020022
9	MEENA SHRINIDHI A	RA2011013020024
10	CHANDRU R P	RA2011013020026
11	PAVITHRA K	RA2011013020029
12	YUTHIKA K	RA2011013020030
13	VARUNRAMANAN R	RA2011013020033
14	V SRIHAARUNI M VARADARAJAN	RA2011013020036
15	AARTHY V	RA2011013020038
16	KONDAPALLY SAI CHARAN	RA2011013020039
17	NANDHU SURESH	RA2011013020042
18	MUSKAN RATHI	RA2011013020045
19	ISHFA BALKEES FATHIMA M	RA2011013020047
20	ABARNISHA S	RA2011013020052

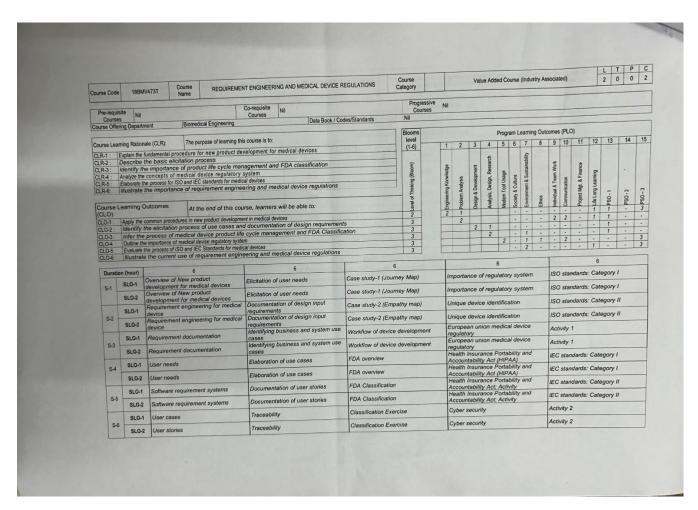


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COURSE SYLLABUS



Bloom's CLA - 1 (20%) CLA - 2 (20%) CLA - 3 (30%) CLA - 3 (30%) CLA - 4 (20%)	earning Resources	Analysis (IIB	(A)		Medical device regulatory practices: an international perspective, Theirs, Val. CRC Press LLC. 2 Medical device regulatory practices: an international perspective, Theirs, Val. CRC Press LLC. 2 Medical device regulatory Affairs in Asia, Jack Wong, Raymond Tong Kalyu, Pan- Machinary, 2013 Conductor, Richard C. Fries, CRC Press, 1998 Sience, Richard C. Fries, CRC P					nl, CRC Press LLC, 201 nd Tong Kaiyu, Pan Sti and Medical Device Inc
Stoom's CLA - 2 (20%) CLA - 2 (20%) CLA - 3 (30%) CLA - 4 (20%)	Learning Asses	sment								
Level of Thinking										
Remember		Level of Thinking								
Level 1			Theory	Practice	Theory	Practice	Heory	710000		
Level 2 Analyze 40.79 Level 3 Create 20.56 Total Total Total FCLIA-A can be from any combination of these Assignments, Seminars, Activity, Tech Talka, Mini-Projects, Case-Studies, Self-Study, MOCS, Certifications, Conf. Paper etc., FCLIA-A can be from any combination of these Assignments, Seminars, Activity, Tech Talka, Mini-Projects, Case-Studies, Self-Study, MOCS, Certifications, Conf. Paper etc., FCLIA-A can be from any combination of these Assignments, Seminars, Activity, Tech Talka, Mini-Projects, Case-Studies, Self-Study, MOCS, Certifications, Conf. Paper etc., FCLIA-A can be from any combination of these Assignments, Seminars, Activity, Tech Talka, Mini-Projects, Case-Studies, Self-Study, MOCS, Certifications, Conf. Paper etc., FCLIA-A can be from any combination of these Assignments, Seminars, Activity, Tech Talka, Mini-Projects, Case-Studies, Self-Study, MOCS, Certifications, Conf. Paper etc., FCLIA-A can be from any combination of these Assignments, Seminars, Activity, Tech Talka, Mini-Projects, Case-Studies, Self-Study, MOCS, Certifications, Conf. Paper etc., FCLIA-A can be from any combination of these Assignments, Seminars, Activity, Tech Talka, Mini-Projects, Case-Studies, Self-Study, MOCS, Certifications, Conf. Paper etc., FCLIA-A can be from any combination of these Assignments, Seminars, Activity, Tech Talka, Mini-Projects, Case-Studies, Self-Study, MOCS, Certifications, Conf. Paper etc., FCLIA-A can be from any combination of these Assignments, Seminars, Activity, Tech Talka, Mini-Projects, Case-Studies, Self-Study, MOCS, Certifications, Conf. Paper etc., FCLIA-A can be from any combination of the Activity and Activity, Tech Talka, Mini-Projects, Case-Studies, Mini-Projects, Case-Studies, Mini-Projects, Conf. Paper etc., FCLIA-A can be from any combination of the Activity and Act	Level 1		40 %	100	30 %		30 %		30 %	-
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Course Designers Experts from Industry Experts from Higher Technical Institutions I.Mr. Pradeep Kolankari, Cappernin Dr. S. Poonguzhali, Professor, Centre for Medical Electronics, Anna University 1. Dr. A K. Jayanthy		Total		100 %				100 %		
Experts from Industry I. Mr. Predeep Kolankari, Cappernial Dr. S. Poonguzhali, Professor, Centre for Medical Electronics, Annual University 1. Dr. A. K. Jayarthy 1. Dr. A. K. Jayarthy			these: Assignments	, Seminars, Activity, 14	ich Taiks, Mini-Projects, Case	studies, self-study, MC	oces, Caraneadoris, Com, P	apar occ.,		
1. Mr. Predeep Kolankari, Cappemini Dr. S. Poonguzhali, Professor, Centre for Medical Electronics, Anna University 1. Dr. A. K. Jayanthy	Course Designers Experts from Industry				Exports from Higher Technical Institutions				Internal Experts	
2. Dr. Saptaginvesan Vivekanandan, Capgemini Mr. T.Anbuselvan, GE Hellboare 2. Dr. Aahok Kumar D	1. Mr. Pradee				Dr. S. Poonguzhali, Professor, Centre for Medical Electronics, Anna University				1. Dr. A K Jayanthy	
					Mr. T.Anbuselvan.GE He	althcare			2. Dr. Ashok Kumar D	
	2. Dr. Sapray									