EXCEL ENGINEERING COLLEGE
(Autonomous)
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NBA (AERO, CSE, ECE, MECH), NAAC with "A+" and Recognised by UGC (2f &12B)
KOMARAPALAYAM-637 303
DEPARTMENT OF BIOMEDICAL ENGINEERING
Academic Year: -2022-23
Academic Calendar B.E/B.Tech Odd Semester (2022-2023)

CWD	DAY	Date	Semester Schedule	CWD	DAY	Date	Semester Schedule
1	Mon	1-Aug-2022	Code of Conduct		Sun	16-Oct-2022	Holiday
2	Tue	2-Aug-2022		58	Mon	17-Oct-2022	
	Wed	3-Aug-2022	Adi-18 Holiday	59	Tue	18-Oct-2022	
3	Thu	4-Aug-2022		60	Wed	19-Oct-2022	
4	Fri	5-Aug-2022		61	Thu	20-Oct-2022	
5	Sat	6-Aug-2022		62	Fri	21-Oct-2022	
	Sun	7-Aug-2022	Holiday	63	Sat	22-Oct-2022	
6	Mon	8-Aug-2022			Sun	23-Oct-2022	Holiday
	Tue	9-Aug-2022	Muharram-Holiday		Mon	24-Oct-2022	Deepawali-Holiday
7	Wed	10-Aug-2022	Department Meeting - 1	64	Tue	25-Oct-2022	
8	Thu	11-Aug-2022		65	Wed	26-Oct-2022	
9	Fri	12-Aug-2022		66	Thu	27-Oct-2022	
10	Sat	13-Aug-2022	World Youth Day	67	Fri	28-Oct-2022	
	Sun	14-Aug-2022	Holiday		Sat	29-Oct-2022	Holiday for Students
	Mon	15-Aug-2022	Indipendence Day		Sun	30-Oct-2022	Holiday
11	Tue	16-Aug-2022		68	Mon	31-Oct-2022	
12	Wed	17-Aug-2022	Department Meeting - 2	69	Tue	1-Nov-2022	
13	Thu	18-Aug-2022		70	Wed	2-Nov-2022	Teck talk on " Development in Traditional to modern Endoscopy"
	Fri	19-Aug-2022	Krishna Jeyanathi	71	Thu	3-Nov-2022	
	Sat	20-Aug-2022	Holiday	72	Fri	4-Nov-2022	
	Sun	21-Aug-2022	Holiday	73	Sat	5-Nov-2022	Last working day for theory classes for 3RD & 4TH Year
14	Mon	22-Aug-2022			Sun	6-Nov-2022	Holiday
15	Tue	23-Aug-2022		74	Mon	7-Nov-2022	IAE-III (3RD & 4TH Year) and IAE-II(2ND YEAR)
16	Wed	24-Aug-2022	IAE-1 (3RD & 4TH Year)	75	Tue	8-Nov-2022	IAE-III (3RD & 4TH Year) and IAE-II(2ND YEAR)
17	Thu	25-Aug-2022	IAE-1 (3RD & 4TH Year)	76	Wed	9-Nov-2022	IAE-III (3RD & 4TH Year) and IAE-II(2ND YEAR)
18	Fri	26-Aug-2022	IAE-1 (3RD & 4TH Year)	77	Thu	10-Nov-2022	
19	Sat	27-Aug-2022		78	Fri	11-Nov-2022	IAE-III Answer Booklet submission
	Sun	28-Aug-2022	Holiday		Sat	12-Nov-2022	Holiday for Students
20	Mon	29-Aug-2022	IAE-1Answer Booklet submission		Sun	13-Nov-2022	Holiday
21	Tue	30-Aug-2022	Deadline for submission of IAE-1 Result Analysis	79	Mon	14-Nov-2022	
	Wed	31-Aug-2022	VinayagarSathurthi	80	Tue	15-Nov-2022	
22	Thu	1-Sep-2022	IAE-1 Result Analysis Meeting	81	Wed	16-Nov-2022	Department Meeting - 6
23	Fri	2-Sep-2022		82	Thu	17-Nov-2022	
24	Sat	3-Sep-2022		83	Fri	18-Nov-2022	
	Sun	4-Sep-2022	Holiday	84	Sat	19-Nov-2022	
25	Mon	5-Sep-2022	Teachers Day		Sun	20-Nov-2022	Holiday
26	Tue	6-Sep-2022		85	Mon	21-Nov-2022	End semester Theory Exam for (3RD & 4TH Year)
27	Wed	7-Sep-2022	Department Meeting - 3	86	Tue	22-Nov-2022	
28	Thu	8-Sep-2022		87	Wed	23-Nov-2022	

No	Day	Date	Event	No	Day	Date	Event
29	Fri	9-Sep-2022		88	Thu	24-Nov-2022	
	Sat	10-Sep-2022	Holiday for Students	89	Fri	25-Nov-2022	
	Sun	11-Sep-2022	Holiday		Sat	26-Nov-2022	Holiday for Students
30	Mon	12-Sep-2022			Sun	27-Nov-2022	Holiday
31	Tue	13-Sep-2022		90	Mon	28-Nov-2022	Constitution Day
32	Wed	14-Sep-2022		91	Tue	29-Nov-2022	
33	Thu	15-Sep-2022	Engineers Day	92	Wed	30-Nov-2022	Department Meeting - 7
34	Fri	16-Sep-2022		93	Thu	1-Dec-2022	
35	Sat	17-Sep-2022		94	Fri	2-Dec-2022	
	Sun	18-Sep-2022	Holiday	95	Sat	3-Dec-2022	
36	Mon	19-Sep-2022			Sun	4-Dec-2022	Holiday
37	Tue	20-Sep-2022		96	Mon	5-Dec-2022	2ND YEAR CLASS COMMITTEE MEETING
38	Wed	21-Sep-2022	Department Meeting - 4	97	Tue	6-Dec-2022	
39	Thu	22-Sep-2022		98	Wed	7-Dec-2022	IAE-III (2ND YEAR)
40	Fri	23-Sep-2022		99	Thu	8-Dec-2022	IAE-III (2ND YEAR)
41	Sat	24-Sep-2022		100	Fri	9-Dec-2022	IAE-III (2ND YEAR)
	Sun	25-Sep-2022	Holiday	101	Sat	10-Dec-2022	
42	Mon	26-Sep-2022			Sun	11-Dec-2022	Holiday
43	Tue	27-Sep-2022		102	Mon	12-Dec-2022	Human Rights Day
44	Wed	28-Sep-2022	IAE-II (3RD & 4TH Year) and IAE-I (2ND YEAR)	103	Tue	13-Dec-2022	
45	Thu	29-Sep-2022	IAE-II (3RD & 4TH Year) and IAE-I (2ND YEAR)	104	Wed	14-Dec-2022	
46	Fri	30-Sep-2022	IAE-II (3RD & 4TH Year) and IAE-I (2ND YEAR)	105	Thu	15-Dec-2022	
47	Sat	1-Oct-2022		106	Fri	16-Dec-2022	
	Sun	2-Oct-2022	Holiday	107	Sat	17-Dec-2022	Christmas Day Celebration
48	Mon	3-Oct-2022	IAE-II Answer Booklet Submission		Sun	18-Dec-2022	Holiday
	Tue	4-Oct-2022	Ayutha Pooja-Holiday	108	Mon	19-Dec-2022	
	Wed	5-Oct-2022	Vijaya dashami-Holiday	109	Tue	20-Dec-2022	
49	Thu	6-Oct-2022	IAE-II Result Analysis meeting	110	Wed	21-Dec-2022	Department Meeting - 8
50	Fri	7-Oct-2022		111	Thu	22-Dec-2022	
51	Sat	8-Oct-2022		112	Fri	23-Dec-2022	
	Sun	9-Oct-2022	Holiday	113	Sat	24-Dec-2022	
52	Mon	10-Oct-2022			Sun	25-Dec-2022	Holiday
53	Tue	11-Oct-2022		114	Mon	26-Dec-2022	
54	Wed	12-Oct-2022	Department Meeting - 5	115	Tue	27-Dec-2022	
55	Thu	13-Oct-2022		116	Wed	28-Dec-2022	End semester Theory Exam for (2NDYEAR)
56	Fri	14-Oct-2022		117	Thu	29-Dec-2022	
57	Sat	15-Oct-2022	ASSOCIATION INAUGURATION	118	Fri	30-Dec-2022	

Academic Coordinator

BME

HOD/BME

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KOMARAPALAYAM-637 303
DEPARTMENT OF BIOMEDICAL ENGINEERING
Academic Year: -2022-23
Academic Calendar B.E/B.TechEven Semester (2022-2023)

CWD	DAY	Date	Semester Schedule	CWD	DAY	Date	Semester Schedule
1	Mon	2-Jan-2023	Commencement of classes for 3RD & 4TH Year				
2	Tue	3-Jan-2023					
3	Wed	4-Jan-2023	Department Meeting - 1		Sat	11-Mar-2023	Holiday
4	Thu	5-Jan-2023			Sun	12-Mar-2023	Holiday
5	Fri	6-Jan-2023		53	Mon	13-Mar-2023	
6	Sat	7-Jan-2023		54	Tue	14-Mar-2023	
	Sun	8-Jan-2023	Holiday	55	Wed	15-Mar-2023	Department Meeting - 6
7	Mon	9-Jan-2023		56	Thu	16-Mar-2023	National Vaccination Day
8	Tue	10-Jan-2023		57	Fri	17-Mar-2023	
9	Wed	11-Jan-2023		58	Sat	18-Mar-2023	
10	Thu	12-Jan-2023			Sun	19-Mar-2023	Holiday
11	Fri	13-Jan-2023	Pongal Celebration	59	Mon	20-Mar-2023	IAE-II(2ND YEAR)
	Sat	14-Jan-2023	SHANKARANTHI	60	Tue	21-Mar-2023	IAE-II(2ND YEAR)
	Sun	15-Jan-2023	Holiday & Pongal		Wed	22-Mar-2023	Telugu New Year
	Mon	16-Jan-2023	Maattu Pongal	61	Thu	23-Mar-2023	IAE-II(2ND YEAR)
	Tue	17-Jan-2023	UzhavarThirunal	62	Fri	24-Mar-2023	
12	Wed	18-Jan-2023	Department Meeting - 2		Sat	25-Mar-2023	Holiday for Students
13	Thu	19-Jan-2023	Commencement of classes for 2ND Year		Sun	26-Mar-2023	Holiday
14	Fri	20-Jan-2023		63	Mon	27-Mar-2023	
15	Sat	21-Jan-2023	Students Sports Activity	64	Tue	28-Mar-2023	
	Sun	22-Jan-2023	Holiday	65	Wed	29-Mar-2023	
16	Mon	23-Jan-2023	Netaji Subash Chandra Bose Jayanthi	66	Thu	30-Mar-2023	
17	Tue	24-Jan-2023		67	Fri	31-Mar-2023	Last working day for theory classes for 3RD & 4TH Year
18	Wed	25-Jan-2023	National Voter's Day	68	Sat	1-Apr-2023	
	Thu	26-Jan-2023	Republic Day		Sun	2-Apr-2023	Holiday
19	Fri	27-Jan-2023		69	Mon	3-Apr-2023	
	Sat	28-Jan-2023	Holiday for Students	70	Tue	4-Apr-2023	
	Sun	29-Jan-2023	Holiday	71	Wed	5-Apr-2023	
20	Mon	30-Jan-2023	IAE-1 (3RD & 4TH Year)	72	Thu	6-Apr-2023	
21	Tue	31-Jan-2023	IAE-1 (3RD & 4TH Year)		Fri	7-Apr-2023	Good Friday
22	Wed	1-Feb-2023	IAE-1 (3RD & 4TH Year)		Sat	8-Apr-2023	Holiday
23	Thu	2-Feb-2023	Seminar on "Challenges and opportunities in "Medical Coding		Sun	9-Apr-2023	Holiday
24	Fri	3-Feb-2023		73	Mon	10-Apr-2023	Last working day for theory classes for 3RD & 4TH Year
25	Sat	4-Feb-2023		74	Tue	11-Apr-2023	IAE-III (3RD & 4TH Year)
	Sun	5-Feb-2023	Holiday	75	Wed	12-Apr-2023	IAE-III (3RD & 4TH Year)
26	Mon	6-Feb-2023	IAE-1 Result Analysis Meeting	76	Thu	13-Apr-2023	IAE-III (3RD & 4TH Year)
27	Tue	7-Feb-2023		77	Fri	14-Apr-2023	Tamil New Year
28	Wed	8-Feb-2023	Department Meeting - 3	78	Sat	15-Apr-2023	
29	Thu	9-Feb-2023			Sun	16-Apr-2023	Holiday
30	Fri	10-Feb-2023		79	Mon	17-Apr-2023	
				80	Tue	18-Apr-2023	

No	Day	Date	Event	No	Day	Date	Event
	Sat	11-Feb-2023	Holiday	81	Wed	19-Apr-2023	Department Meeting - 7
	Sun	12-Feb-2023	Holiday	82	Thu	20-Apr-2023	
31	Mon	13-Feb-2023	IAE-I (2ND YEAR)	83	Fri	21-Apr-2023	
32	Tue	14-Feb-2023	IAE-I (2ND YEAR)		Sat	22-Apr-2023	Holiday for Students
33	Wed	15-Feb-2023	IAE-I (2ND YEAR)		Sun	23-Apr-2023	Holiday
34	Thu	16-Feb-2023		84	Mon	24-Apr-2023	End semester Theory Exam for(3RD& 4TH Year)
35	Fri	17-Feb-2023		85	Tue	25-Apr-2023	
36	Sat	18-Feb-2023	Annual Day Celebration	86	Wed	26-Apr-2023	Last working day for theory classes for 2ND Year
	Sun	19-Feb-2023	Holiday	87	Thu	27-Apr-2023	IAE-III (2ND YEAR)
37	Mon	20-Feb-2023		88	Fri	28-Apr-2023	IAE-III (2ND YEAR)
38	Tue	21-Feb-2023			Sat	29-Apr-2023	Holiday
39	Wed	22-Feb-2023	Department Meeting - 4		Sun	30-Apr-2023	Holiday
40	Thu	23-Feb-2023			Mon	1-May-2023	Mayday
41	Fri	24-Feb-2023		89	Tue	2-May-2023	IAE-III (2ND YEAR)
	Sat	25-Feb-2023	Holiday for Students	90	Wed	3-May-2023	
	Sun	26-Feb-2023	Holiday	91	Thu	4-May-2023	
42	Mon	27-Feb-2023		92	Fri	5-May-2023	End semesterPractical Exam for 2ND Year
43	Tue	28-Feb-2023			Sat	6-May-2023	Holiday
44	Wed	1-Mar-2023	Department Meeting - 5		Sun	7-May-2023	Holiday
45	Thu	2-Mar-2023		93	Mon	8-May-2023	
46	Fri	3-Mar-2023		94	Tue	9-May-2023	
47	Sat	4-Mar-2023		95	Wed	10-May-2023	Department Meeting - 8
	Sun	5-Mar-2023	Holiday	96	Thu	11-May-2023	
48	Mon	6-Mar-2023	IAE-II (3RD& 4TH Year) and IAE-I (2ND YEAR)	97	Fri	12-May-2023	
49	Tue	7-Mar-2023	IAE-II (3RD& 4TH Year) and IAE-I (2ND YEAR)		Sat	13-May-2023	Holiday
50	Wed	8-Mar-2023	IAE-II (3RD& 4TH Year) and IAE-I (2ND YEAR)		Sun	14-May-2023	Holiday
51	Thu	9-Mar-2023		98	Mon	15-May-2023	End Semester Theory Exam for 2ND Year
52	Fri	10-Mar-2023		99	Tue	16-May-2023	

Academic Coordinator

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Topic	SubTopics	Seq. No	Planned Date	Date of Completion	Deviation Status	Remarks	Attachments	Text / Reference Book	Website Reference
GEOMETRIC TRANSFORMATIONS	Basics of rotation and scaling-	5.1	13-10-2023	13-10-2023	No	-	Yes	-	-
GEOMETRIC TRANSFORMATIONS	Affine Transformations-homogeneous coordinates	5.2	19-10-2023	19-10-2023	No	-	Yes	-	-
GEOMETRIC TRANSFORMATIONS	Backward Mapping-Bilinear interpolation-Profile Analysis	5.3	19-10-2023	19-10-2023	No	-	Yes	-	-
GEOMETRIC TRANSFORMATIONS	projective transformation or homography	5.4	13-10-2023	13-10-2023	No	-	Yes	-	-
GEOMETRIC TRANSFORMATIONS	Image Registration-Feature-Based Image Registration Vs Intensity-Based Image Registration	5.4	17-10-2023	17-10-2023	No	-	Yes	-	-
GEOMETRIC TRANSFORMATIONS	Line and Path Detection	5.5	19-10-2023	19-10-2023	No	-	Yes	-	-
GEOMETRIC TRANSFORMATIONS	The Hough Transform-Path Tracing Using Dynamic Programming	5.6	20-10-2023	20-10-2023	No	-	Yes	-	-
GEOMETRIC TRANSFORMATIONS	Preprocessing for Path Tracing- Locating Circular Structures.	5.7	25-10-2023	25-10-2023	No	-	Yes	-	-
GEOMETRIC TRANSFORMATIONS	Case study for an ophthalmology to track the veins in Fundus image.	5.8	26-10-2023	26-10-2023	No	-	Yes	-	-
FUNDAMENTALS OF COLOR IMAGES	Basics of Psycho-visual experiments-	4.1	22-09-2023	22-09-2023	No	-	Yes	-	-
FUNDAMENTALS OF COLOR IMAGES	subtractive colors-additive colors	4.2	23-09-2023	23-09-2023	No	-	Yes	-	-
FUNDAMENTALS OF COLOR IMAGES	Representation of an RGB Color Image-	4.3	27-09-2023	27-09-2023	No	-	Yes	-	-
FUNDAMENTALS OF COLOR IMAGES	Bayer pattern of color image sensor/Color camera	4.4	06-10-2023	06-10-2023	No	-	Yes	-	-
FUNDAMENTALS OF COLOR IMAGES	The RGB Color Space - HSI Color Representation	4.5	10-10-2023	10-10-2023	No	-	Yes	-	-
FUNDAMENTALS OF COLOR IMAGES	Color Thresholding-Chroma-Keying-Postscript on Colors	4.6	11-10-2023	11-10-2023	No	-	Yes	-	-
FUNDAMENTALS OF COLOR IMAGES	Pixel Classification – case study on Classification of a head CT image	4.7	12-10-2023	12-10-2023	No	-	Yes	-	-
FUNDAMENTALS OF COLOR IMAGES	Histogram and annotation concepts - minimum distance classifier Vs parametric classifier	4.8	04-10-2023	04-10-2023	No	-	Yes	-	-
FUNDAMENTALS OF COLOR IMAGES	Bayesian Classification	4.9	04-10-2023	04-10-2023	No	-	Yes	-	-

BLOB [Binary Large Object] ANALYSIS	BLOB Extraction- The Grass-Fire Algorithm	3.8	31-08-2023	31-08-2023	No	-	Yes	-	-
BLOB [Binary Large Object] ANALYSIS	BLOB Features- BLOB Area	3.9	01-09-2023	01-09-2023	No	-	Yes	-	-
MORPHOLOGY TECHNIQUES	Bounding Box, Bounding Circle,	2.1	02-09-2023	02-09-2023	No	-	Yes	-	-
MORPHOLOGY TECHNIQUES	Convex Hull, compactness of a BLOB	2.2	12-09-2023	12-09-2023	No	-	Yes	-	-
MORPHOLOGY TECHNIQUES	Center of Mass, Perimeter, Circularity and BLOB Classification-	2.3	26-08-2023	26-08-2023	No	-	Yes	-	-
MORPHOLOGY TECHNIQUES	Cell Classification Using BLOB Analysis for image cytometer	2.4	13-09-2023	13-09-2023	No	-	Yes	-	-
MORPHOLOGY TECHNIQUES	Feature Selection, Feature Ranges and Evaluation of Classification	2.5	14-09-2023	14-09-2023	No	-	Yes	-	-
MORPHOLOGY TECHNIQUES	IAE 2	2.6	20-09-2023	20-09-2023	No	-	Yes	-	-
MORPHOLOGY TECHNIQUES	Coaching hour	2.7	26-08-2023	26-08-2023	No	-	Yes	-	-
MORPHOLOGY TECHNIQUES	Revision hour	2.8	19-08-2023	19-08-2023	No	-	Yes	-	-
MORPHOLOGY TECHNIQUES	Convolution Vs Correlation kernels- Template Matching	2.9	17-08-2023	17-08-2023	No	-	Yes	-	-
Fundamentals of Image Processing	Edge Detection- Gradients-Image Edges-	1.1	18-08-2023	18-08-2023	No	-	Yes	-	-
Fundamentals of Image Processing	Morphology on binary images	1.2	19-08-2023	19-08-2023	No	-	Yes	-	-
Fundamentals of Image Processing	box-shaped and disc shaped structuring element- Hit and Fit,	1.3	22-08-2023	22-08-2023	No	-	Yes	-	-
Fundamentals of Image Processing	Dilation and Erosion,	1.4	23-08-2023	23-08-2023	No	-	Yes	-	-
Fundamentals of Image Processing	Compound Operations- Boundary Detection	1.5	31-08-2023	31-08-2023	No	-	Yes	-	-
Fundamentals of Image Processing	Introduction of Image Processing	1.6	04-07-2023	04-07-2023	No	-	Yes	-	-
Fundamentals of Image Processing	General Frame work- Digital Images-	1.7	20-07-2023	20-07-2023	No	-	Yes	-	-
Fundamentals of Image Processing	Image Coordinate Systems-The Region-of-Interest (ROI)	1.8	21-07-2023	21-07-2023	No	-	Yes	-	-
Fundamentals of Image Processing	Binary Images-Label Images	1.9	27-08-2023	27-08-2023	No	-	Yes	-	-

Topic	SubTopics	Seq.No	Planned Date	Date of Completion	Deviation Status	Remarks	Attachments	Text / Reference Book	Website Reference
Human Factors Engineering	Human Factors, Human Factors process	5.1	10-10-2023	10-10-2023	No	-	Yes	-	-
Human Factors Engineering	Specifying the User Interface, Anthropometry	5.2	11-10-2023	11-10-2023	No	-	Yes	-	-
Human Factors Engineering	Alarms and Signals	5.3	13-10-2023	13-10-2023	No	-	Yes	-	-
Human Factors Engineering	Additional Human Factors Design Considerations	5.4	20-10-2023	20-10-2023	No	-	Yes	-	-
Human Factors Engineering	overview of Verification and Validation for Embedded Software in Medical System	5.5	16-10-2023	16-10-2023	No	-	Yes	-	-
Manufacturing Process	Additive manufacturing processes; Machining, forming	4.1	01-11-2023	01-11-2023	No	-	Yes	-	-
Manufacturing Process	electro-discharge machining (EDM) and electrochemical machining (ECM)	4.2	10-11-2023	10-11-2023	No	-	Yes	-	-
Manufacturing Process	laser-based processing	4.3	28-10-2023	28-10-2023	No	-	Yes	-	-
Manufacturing Process	casting and molding	4.4	13-09-2023	13-09-2023	No	-	Yes	-	-
Manufacturing Process	Machines and equipment including tooling	4.5	23-09-2023	23-09-2023	No	-	Yes	-	-
Manufacturing Process	fixturing, sensors systems, and control.	4.6	27-09-2023	27-09-2023	No	-	Yes	-	-
Orthopaedic Designs	Design of orthopaedic Implants	3.1	04-10-2023	04-10-2023	No	-	Yes	-	-
Orthopaedic Designs	orthoses	3.2	07-10-2023	07-10-2023	No	-	Yes	-	-
Orthopaedic Designs	Assistive devices	3.3	09-10-2023	09-10-2023	No	-	Yes	-	-
Orthopaedic Designs	IAE 2	2	02-09-2023	02-09-2023	No	-	Yes	-	-
Orthopaedic Designs	Coaching class	2	08-09-2023	08-09-2023	No	-	Yes	-	-
Finite Element Methods in Implant Design	Introduction to Finite Element Method	2.1	11-09-2023	11-09-2023	No	-	Yes	-	-
Finite Element Methods in Implant Design	Finite element modelling of cells, tissues and organs	2.2	20-09-2023	20-09-2023	No	-	Yes	-	-
Finite Element Methods in Implant Design	Medical device design and prototyping	2.3	13-09-2023	13-09-2023	No	-	Yes	-	-

Finite Element Methods in Implant Design	Customized and universal design of Implants and prosthesis.	2.4	04-08-2023	04-08-2023	No	-	Yes	-	-
Introduction to Regulatory Affairs for Medical Devices	Introduction of medical devices	1.1	08-08-2023	08-08-2023	No	-	Yes	-	-
Introduction to Regulatory Affairs for Medical Devices	Generating Ideas and Concepts, Design Process versus Design Control,	1.2	19-08-2023	19-08-2023	No	-	Yes	-	-
Introduction to Regulatory Affairs for Medical Devices	Implementation of Design Procedures	1.3	22-08-2023	22-08-2023	No	-	Yes	-	-
Introduction to Regulatory Affairs for Medical Devices	Material selection and Biocompatibility	1.4	04-07-2023	04-07-2023	No	-	Yes	-	-
Introduction to Regulatory Affairs for Medical Devices	Design Specification, Quality in Design	1.5	05-07-2023	05-07-2023	No	-	Yes	-	-
Introduction to Regulatory Affairs for Medical Devices	Detailed Design (hardware/ Software design),	1.6	07-07-2023	07-07-2023	No	-	Yes	-	-

20BM502Biomedical Instrumentation

Staff Name:Rokini K

Topic	SubTopics	Seq.No	Planned Date	Date of Completion	Deviation Status	Remarks	Attachments	Text / Reference Book	Website Reference
IAT	IAT-1	1	26-08-2022	26-08-2022	Yes	Completed	No	-	-
IAT	IAT-2	2	30-09-2022	30-09-2022	Yes	Completed	No	-	-
IAT	IAT-3	3	08-11-2022	08-11-2022	Yes	Completed	No	-	-
UNIT-V Medical Laboratory Instrumentation and Electrical Safety	Calorimeter	5.1	21-10-2022	21-10-2022	No	Completed	Yes	-	-
UNIT-V Medical Laboratory Instrumentation and Electrical Safety	Flame photometer	5.2	21-10-2022	21-10-2022	No	Completed	Yes	-	-
UNIT-V Medical Laboratory Instrumentation and Electrical Safety	Spectrophotometer	5.3	26-10-2022	26-10-2022	Yes	Completed	Yes	-	-
UNIT-V Medical Laboratory Instrumentation and Electrical Safety	pH and Blood Gas Analyzer	5.4	26-10-2022	26-10-2022	Yes	Completed	Yes	-	-
UNIT-V Medical Laboratory Instrumentation and Electrical Safety	Auto Analyzer	5.5	27-10-2022	27-10-2022	Yes	Completed	Yes	-	-
UNIT-V Medical Laboratory Instrumentation and Electrical Safety	Electrical Safety and Hazards	5.6	28-10-2022	28-10-2022	No	Completed	Yes	-	-
UNIT-V Medical Laboratory Instrumentation and Electrical Safety	Physiological Effects of Electrical Current	5.7	31-10-2022	31-10-2022	Yes	Completed	Yes	-	-
UNIT-V Medical Laboratory Instrumentation and Electrical Safety	Shock Hazards	5.8	01-11-2022	01-11-2022	Yes	Completed	Yes	-	-
UNIT-V Medical Laboratory Instrumentation and Electrical Safety	Methods of Accident Prevention	5.9	04-11-2022	04-11-2022	Yes	Completed	Yes	-	-
UNIT- IV ENT, Ophthalmic and Urological Instrumentation	Mechanism of hearing,Measurement of Sound	4.1	10-10-2022	10-10-2022	Yes	Completed	Yes	-	-
UNIT- IV ENT, Ophthalmic and Urological Instrumentation	Basic Audiometer	4.2	11-10-2022	11-10-2022	No	Completed	Yes	-	-
UNIT- IV ENT, Ophthalmic and Urological Instrumentation	Pure Tone and Speech Audiometer	4.3	11-10-2022	11-10-2022	Yes	Completed	Yes	-	-

Unit	Topic	No.	Planned Date	Actual Date		Status			
UNIT- IV ENT, Ophthalmic and Urological Instrumentation	Hearing Aids	4.4	13-10-2022	13-10-2022	Yes	Completed	Yes	-	-
UNIT- IV ENT, Ophthalmic and Urological Instrumentation	Optometry	4.5	14-10-2022	14-10-2022	Yes	Completed	Yes	-	-
UNIT- IV ENT, Ophthalmic and Urological Instrumentation	EOG - Glucometer	4.6	17-10-2022	17-10-2022	Yes	Completed	Yes	-	-
UNIT- IV ENT, Ophthalmic and Urological Instrumentation	ELISA	4.7	18-10-2022	18-10-2022	Yes	Completed	Yes	-	-
UNIT- IV ENT, Ophthalmic and Urological Instrumentation	Endoscope, Cystoscope	4.8	18-10-2022	18-10-2022	Yes	Completed	Yes	-	-
UNIT- IV ENT, Ophthalmic and Urological Instrumentation	Urological system: Nephroscope, Resectoscope, Ureteroscope	4.9	20-10-2022	20-10-2022	No	Completed	Yes	-	-
UNIT-III Nervous System and Instrumentation	Neuronal communication system	3.1	16-09-2022	16-09-2022	Yes	Completed	Yes	-	-
UNIT-III Nervous System and Instrumentation	The organization of the brain	3.2	19-09-2022	19-09-2022	No	Completed	Yes	-	-
UNIT-III Nervous System and Instrumentation	measurements from the nervous system	3.3	20-09-2022	20-09-2022	Yes	Completed	Yes	-	-
UNIT-III Nervous System and Instrumentation	EEG, Standard Lead System	3.4	22-09-2022	22-09-2022	Yes	Completed	Yes	-	-
UNIT-III Nervous System and Instrumentation	Amplitude and Frequency Bands	3.5	23-09-2022	23-09-2022	Yes	Completed	Yes	-	-
UNIT-III Nervous System and Instrumentation	Evoked Potential Recording	3.6	26-09-2022	26-09-2022	Yes	Completed	Yes	-	-
UNIT-III Nervous System and Instrumentation	Sensory Measurement	3.7	27-09-2022	27-09-2022	Yes	Completed	Yes	-	-
UNIT-III Nervous System and Instrumentation	Experimental Analysis of Behavior	3.8	06-10-2022	06-10-2022	Yes	Completed	Yes	-	-
UNIT-III Nervous System and Instrumentation	Biofeedback Instrumentation	3.9	07-10-2022	07-10-2022	Yes	Completed	Yes	-	-
UNIT-II Cardiovascular And Respiratory Instrumentation	Heart and cardiovascular system-model	2.1	29-08-2022	29-08-2022	Yes	Completed	Yes	-	-
UNIT-II Cardiovascular And Respiratory Instrumentation	Physiological Pressures	2.2	30-08-2022	30-08-2022	No	Completed	Yes	-	-
UNIT-II Cardiovascular And Respiratory Instrumentation	Blood pressure measurement	2.3	01-09-2022	01-09-2022	No	Completed	Yes	-	-
UNIT-II Cardiovascular And Respiratory Instrumentation	Measurement of heart sounds	2.4	02-09-2022	02-09-2022	No	Completed	Yes	-	-

UNIT-II Cardiovascular And Respiratory Instrumentation	Systemic and Pulmonary Circulation	2.5	05-09-2022	05-09-2022	Yes	Completed	Yes	-	-
UNIT-II Cardiovascular And Respiratory Instrumentation	Blood flow measurement	2.6	06-09-2022	06-09-2022	No	Completed	Yes	-	-
UNIT-II Cardiovascular And Respiratory Instrumentation	Cardiac output	2.7	12-09-2022	12-09-2022	Yes	Completed	Yes	-	-
UNIT-II Cardiovascular And Respiratory Instrumentation	Measurement of Pulmonary function	2.8	13-09-2022	13-09-2022	Yes	Completed	Yes	-	-
UNIT-II Cardiovascular And Respiratory Instrumentation	ECG, Standard Lead System	2.9	15-09-2022	15-09-2022	Yes	Completed	Yes	-	-
UNIT-II Cardiovascular And Respiratory Instrumentation	Respiratory system-model, Spirometer, Plethysmography	2.10	16-09-2022	16-09-2022	No	Completed	Yes	-	-
UNIT I INTRODUCTION	Physiological system of the body	1.1	01-08-2022	01-08-2022	Yes	Completed	Yes	-	-
UNIT I INTRODUCTION	Physiological system of body	1.1	02-08-2022	02-08-2022	Yes	Completed	Yes	-	-
UNIT I INTRODUCTION	Development of Biomedical Instrumentation	1.2	08-08-2022	08-08-2022	Yes	Completed	Yes	-	-
UNIT I INTRODUCTION	Man instrument system	1.3	12-08-2022	12-08-2022	Yes	Completed	Yes	-	-
UNIT I INTRODUCTION	Components of Man instrument system	1.4	16-08-2022	16-08-2022	Yes	Completed	Yes	-	-
UNIT I INTRODUCTION	Problems encountered in the measurement	1.5	18-08-2022	18-08-2022	No	Completed	Yes	-	-
UNIT I INTRODUCTION	Body as a Control System	1.6	22-08-2022	22-08-2022	No	Completed	Yes	-	-
UNIT I INTRODUCTION	General constraints in design of medical instrumentation system	1.7	23-08-2022	23-08-2022	No	Completed	Yes	-	-
UNIT I INTRODUCTION	General constraints in design of medical instruments	1.9	23-08-2022	23-08-2022	Yes	Completed	Yes	-	-

Topic	SubTopics	Seq.No	Planned Date	Date of Completion	Deviation Status	Remarks	Attachments	Text / Reference Book	Website Reference
Software Tools And Interaction	Specification Methods	5.1	06-04-2023	06-04-2023	No	-	Yes	-	-
Software Tools And Interaction Devices	Interface Building Tools	5.2	13-04-2023	13-04-2023	No	-	Yes	-	-
Software Tools And Interaction Devices	Keyboard	5.3	12-04-2023	12-04-2023	No	-	Yes	-	-
Software Tools And Interaction Devices	Function Keys	5.4	31-03-2023	31-03-2023	No	-	Yes	-	-
Software Tools And Interaction Devices	Pointing Devices Speech Recognition.	5.5	13-04-2023	13-04-2023	No	-	Yes	-	-
Windows & Components	Windows : New Navigation Schemes	4.1	24-03-2023	08-03-2023	No	-	Yes	-	-
Windows & Components	Selection of Window	4.2	21-03-2023	10-03-2023	No	-	Yes	-	-
Windows & Components	Selection of Devices Based on Screen Based Controls	4.3	04-04-2023	04-04-2023	No	-	Yes	-	-
Windows & Components	Components : Text and Messages	4.5	17-03-2023	17-03-2023	No	-	Yes	-	-
Windows & Components	Icons and Increases	4.5	28-03-2023	28-03-2023	No	-	Yes	-	-
Windows & Components	Multimedia-Colors	4.6	28-03-2023	11-04-2023	No	-	Yes	-	-
Windows & Components	Uses	4.7	11-04-2023	11-04-2023	No	-	Yes	-	-
Windows & Components	Problems	4.8	11-04-2023	11-04-2023	No	-	Yes	-	-
Windows & Components	Choosing colors	4.9	04-04-2023	04-04-2023	No	-	Yes	-	-
Screen Designing	Design Goals- Screen Planning and Purpose	3.1	10-02-2023	10-02-2023	No	-	Yes	-	-
Screen Designing	Organizing Screen Elements- Ordering of Screen Data and Content	3.2	02-02-2023	02-02-2023	No	-	Yes	-	-
Screen Designing	Navigation and Flow- Visually Pleasing Composition	3.3	14-02-2023	14-02-2023	No	-	Yes	-	-
Screen Designing	Amount of Information	3.4	15-02-2023	15-02-2023	No	-	Yes	-	-
Screen Designing	Focus and Emphasis	3.5	22-02-2023	22-02-2023	No	-	Yes	-	-
Screen Designing	Presenting Information	3.6	23-02-2023	23-02-2023	No	-	Yes	-	-
Screen Designing	Simply and Meaningfully	3.7	24-02-2023	24-02-2023	No	-	Yes	-	-

Screen Designing	- Information retrieval on web-Statistical Analysis	3.8	28-02-2023	28-02-2023	No	-	Yes	-	-
Screen Designing	Technological considerations in Interface Design	3.9	01-03-2023	01-03-2023	No	-	Yes	-	-
The Graphical User Interface&Design Process	GUI : Popularity of graphics-The concept of direct manipulation	2.1	20-01-2023	20-01-2023	No	-	Yes	-	-
The Graphical User Interface&Design Process	Graphical system	2.2	24-01-2023	24-01-2023	No	-	Yes	-	-
The Graphical User Interface&Design Process	Characteristics	2.3	25-01-2023	25-01-2023	No	-	Yes	-	-
The Graphical User Interface&Design Process	Web user-Interface Popularity	2.4	27-01-2023	27-01-2023	No	-	Yes	-	-
The Graphical User Interface&Design Process	Characteristics and Principles of User Interface.	2.5	31-01-2023	31-01-2023	No	-	Yes	-	-
The Graphical User Interface&Design Process	Design process	2.6	03-02-2023	03-02-2023	No	-	Yes	-	-
The Graphical User Interface&Design Process	Human Interaction with computers	2.7	07-02-2023	07-02-2023	No	-	Yes	-	-
The Graphical User Interface&Design Process	Importance of Human Characteristics	2.8	08-02-2023	08-02-2023	No	-	Yes	-	-
The Graphical User Interface&Design Process	Human Consideration	2.9	09-02-2023	09-02-2023	No	-	Yes	-	-
INTRODUCTION	IMPORTANCE OF USER INTERFACE	1.1	03-01-2023	03-01-2023	No	-	Yes	-	-
INTRODUCTION	DEFINITION OF HUMAN INTERFACE	1.2	05-01-2023	05-01-2023	No	-	Yes	-	-
INTRODUCTION	IMPORTANCE OF GOOD DESIGN	1.3	06-01-2023	06-01-2023	No	-	Yes	-	-
INTRODUCTION	BENEFITS OF GOOD DESIGN	1.4	10-01-2023	10-01-2023	No	-	Yes	-	-
INTRODUCTION	HUMAN CENTERED DEVELOPMENT AND EVALUATION	1.5	11-01-2023	10-01-2023	No	-	Yes	-	-
INTRODUCTION	HUMAN PERFORMANCE MODELS	1.6	12-01-2023	12-01-2023	No	-	Yes	-	-
INTRODUCTION	INTRODUCTION OF SCREEN DESIGN	1.7	13-01-2023	13-01-2023	No	-	Yes	-	-
INTRODUCTION	SCREEN DESIGN	1.8	18-01-2023	18-01-2023	No	-	Yes	-	-
INTRODUCTION	A BRIEF HISTORY OF SCREEN DESIGN	1.9	19-01-2023	19-01-2023	No	-	Yes	-	-

EXCEL ENGINEERING COLLEGE
(Autonomous)
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KOMARAPALAYAM - 637303

BE-Bio Medical Engineering

20BM604 DIAGNOSTIC AND THERAPEUTIC EQUIPMENT THEORY

Topic	SubTopics	Seq.No	Planned Date	Date of Completion	Deviation Status	Remarks
UNIT V Advanced Medical Equipment's	Hemodialyzer as Artificial Kidney-Dialyzers	5.1	23-03-2023	23-03-2023	No	Completed
UNIT V Advanced Medical Equipment's	Membranes for Hemodialysis Machine	5.2	24-03-2023	24-03-2023	No	Completed
UNIT V Advanced Medical Equipment's	Electronic Controls and home (Portable) Kidney Machines	5.3	27-03-2023	27-03-2023	No	Completed
UNIT V Advanced Medical Equipment's	Heart Lung Machine-Uses and Need for heart surgery –Technical Controls and key design steps.	5.4	29-03-2023	29-03-2023	No	Completed
UNIT V Advanced Medical Equipment's	Heart Lung Machine-Uses and Need for heart surgery,Technical Controls and key design steps.	5.5	30-03-2023	30-03-2023	No	Completed
UNIT V Advanced Medical Equipment's	Ventilators-Mechanics of Respiration	5.6	31-03-2023	31-03-2023	No	Completed
UNIT V Advanced Medical Equipment's	Artificial Ventilation by Ventilators-Types of Ventilators	5.7	03-04-2023	03-04-2023	No	Completed
UNIT V Advanced Medical Equipment's	Modern Ventilators with Humidifiers, Nebulizers and Aspirators	5.8	05-04-2023	05-04-2023	No	Completed
UNIT V Advanced Medical Equipment's	Need for Anesthesia - Anesthesia Machine-Capnography	5.9	06-04-2023	06-04-2023	No	Completed
Unit – IV Surgical Diathermy, Physiotherapy and Electrotherapy Equipment	Instruments for Surgery	4.1	24-02-2023	24-02-2023	No	Completed
Unit – IV Surgical Diathermy, Physiotherapy and Electrotherapy Equipment	Principle of Surgical Diathermy	4.2	27-02-2023	27-02-2023	No	Completed
Unit – IV Surgical Diathermy, Physiotherapy and Electrotherapy Equipment	Surgical Diathermy Machine	4.3	01-03-2023	01-03-2023	No	Completed
Unit – IV Surgical Diathermy, Physiotherapy and Electrotherapy Equipment	Safety Aspects in Electrosurgical Units	4.4	02-03-2023	02-03-2023	No	Completed
Unit – IV Surgical Diathermy, Physiotherapy and Electrotherapy Equipment	Surgical Diathermy Analysers	4.5	03-03-2023	03-03-2023	No	Completed
Unit – IV Surgical Diathermy, Physiotherapy and Electrotherapy Equipment	Physiotherapy Equipment	4.6	10-03-2023	10-03-2023	No	Completed
Unit – IV Surgical Diathermy, Physiotherapy and Electrotherapy Equipment	High Frequency Heat Therapy	4.7	13-03-2023	13-03-2023	No	Completed
Unit – IV Surgical Diathermy, Physiotherapy and Electrotherapy Equipment	Short-Wave therapy -Microwave and Ultrasonic Therapy.	4.8	15-03-2023	15-03-2023	No	Completed
Unit – IV Surgical Diathermy, Physiotherapy and Electrotherapy Equipment	Electrotherapy Equipment for Pain Relief	4.9	16-03-2023	16-03-2023	No	Completed
Unit – IV Surgical Diathermy, Physiotherapy and Electrotherapy Equipment	Functional Electric Stimulation [FES] and TENS	4.10	17-03-2023	17-03-2023	No	Completed
Unit – IIICardiac Pacemakers and Defibrillators	Cardiac Pacemakers - Need for Cardiac Pacemaker	3.1	09-02-2023	09-02-2023	No	Completed
Unit – IIICardiac Pacemakers and Defibrillators	- External Pacemakers	3.2	10-02-2023	10-02-2023	No	Completed
Unit – IIICardiac Pacemakers and Defibrillators	Implantable Pacemakers	3.3	13-02-2023	13-02-2023	No	Completed
Unit – IIICardiac Pacemakers and Defibrillators	Recent Developments in Implantable Pacemakers	3.4	15-02-2023	15-02-2023	No	Completed
Unit – IIICardiac Pacemakers and Defibrillators	Pacing System Analyser	3.5	16-02-2023	16-02-2023	No	Completed
Unit – IIICardiac Pacemakers and Defibrillators	Cardiac Defibrillators	3.6	17-02-2023	17-02-2023	No	Completed

Unit	Topic	No.	Planned Date	Actual Date		Status
Unit – IIICardiac Pacemakers and Defibrillators	Need for a Defibrillator - DC Defibrillator	3.7	20-02-2023	20-02-2023	No	Completed
Unit – IIICardiac Pacemakers and Defibrillators	Implantable Defibrillators - Pacer- Cardioverter Defibrillator	3.8	22-02-2023	22-02-2023	No	Completed
Unit – IIICardiac Pacemakers and Defibrillators	Defibrillator Analyzers- Left Ventricular Assist Device (LVAD)	3.9	23-02-2023	23-02-2023	No	Completed
IAE	IAE1	1	01-02-2023	01-02-2023	No	Completed
IAE	IAE2	2	09-03-2023	09-03-2023	No	Completed
IAE	IAE3	3	13-04-2023	13-04-2023	No	Completed
UNIT-II Ultrasonic Imaging Systems	Diagnostic Ultrasound -Physics and Biological effects of Ultrasonic Waves in tissues	2.1	13-01-2023	13-01-2023	No	Completed
UNIT-II Ultrasonic Imaging Systems	Basic Pulse-Echo techniques	2.2	18-01-2023	18-01-2023	No	Completed
UNIT-II Ultrasonic Imaging Systems	U/s Scanners Imaging Modes	2.3	20-01-2023	20-01-2023	No	Completed
UNIT-II Ultrasonic Imaging Systems	Real-Time Ultrasonic Imaging Systems -Different Probes	2.4	23-01-2023	23-01-2023	No	Completed
UNIT-II Ultrasonic Imaging Systems	Mechanical Sqa1aector -Multi-Element Linear Array rectangular – Curvilinear	2.5	25-01-2023	25-01-2023	No	Completed
UNIT-II Ultrasonic Imaging Systems	Duplex Scanner- Modern Ultrasound Imaging Systems,Beam Steering concepts and Digital scan converters-	2.6	27-01-2023	27-01-2023	No	Completed
UNIT-II Ultrasonic Imaging Systems	Portable Ultrasound Systems	2.7	03-02-2023	03-02-2023	No	Completed
UNIT-II Ultrasonic Imaging Systems	3D/4D Color Doppler Ultrasound Imaging Systems for Cardiac application	2.8	06-02-2023	06-02-2023	No	Completed
UNIT-II Ultrasonic Imaging Systems	3D/4D Color Doppler Ultrasound Imaging Systems for Abdomen and Gynaecology applications	2.9	08-02-2023	08-02-2023	No	Completed
Unit-I Patient Monitoring Systems	Single Channel to Multichannel System Concepts	1.1	02-01-2023	02-01-2023	No	Completed
Unit-I Patient Monitoring Systems	Cardiac Monitor	1.2	04-01-2023	04-01-2023	No	Completed
Unit-I Patient Monitoring Systems	Bedside Patient Monitoring Systems	1.3	04-01-2023	04-01-2023	No	Completed
Unit-I Patient Monitoring Systems	Central Monitors for ICU	1.4	04-01-2023	04-01-2023	No	Completed
Unit-I Patient Monitoring Systems	Foetal Monitoring Instruments	1.5	05-01-2023	05-01-2023	No	Completed
Unit-I Patient Monitoring Systems	Measurement of Heart Rate, Temperature and Respiration Rate	1.6	06-01-2023	06-01-2023	No	Completed
Unit-I Patient Monitoring Systems	Catheterization Laboratory Instrumentation	1.7	09-01-2023	09-01-2023	No	Completed
Unit-I Patient Monitoring Systems	Exercise Stress Testing [TMT machine]	1.8	11-01-2023	11-01-2023	No	Completed
Unit-I Patient Monitoring Systems	Ambulatory Monitoring Instruments –Biotelemetry Systems	1.9	12-01-2023	12-01-2023	No	Completed

Teach Plan Status Summary Report

College Name	Academic Year	Degree	Department	Semester	Section	Staff Name	Subject Name	Subject Code	Topic	SubTopics	Seq.No	Planned Date	Date of Completion	Deviation Status	Remarks	Attachments
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Ethics	Introduction to ethics	5.1	14-03-2023	14-03-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Ethics	Law within medical practice	5.2	17-03-2023	17-03-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Ethics	Issues in the doctor	5.3	20-03-2023	20-03-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Ethics	patient relationship	5.4	21-03-2023	21-03-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Ethics	Ethico	5.5	24-03-2023	24-03-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Ethics	legal issues by medical specialism	5.6	27-03-2023	27-03-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Ethics	Statutory provisions	5.7	29-03-2023	29-03-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Ethics	Regulation of human tissue	5.8	04-04-2023	04-04-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Ethics	The definition of mental disorder under the Mental Health Act	5.9	05-04-2023	05-04-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Manufacture of Medical Devices and IVDs	Medical Devices and IVDs	4.1	13-02-2023	13-02-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Manufacture of Medical Devices and IVDs	How to obtain a license to manufacture a medical device?	4.2	01-02-2023	01-02-2023	No	completed	Yes

Institution	Year	Program	Department	Semester	Section	Faculty	Course	Course Code	Unit	Topic	Session No	Planned Date	Actual Date	Postponed	Status	Completed
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Manufacture of Medical Devices and IVDs	Risk Management	4.3	24-02-2023	24-02-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Manufacture of Medical Devices and IVDs	Risk Management System for medical devices (ISO 14971)	4.4	27-02-2023	27-02-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Manufacture of Medical Devices and IVDs	Inspection of medical device	4.5	28-02-2023	28-02-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Manufacture of Medical Devices and IVDs	medical device and IVD establishments	4.6	01-03-2023	01-03-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Manufacture of Medical Devices and IVDs	mport and export of medical devices and IVDs	4.7	03-03-2023	03-03-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Manufacture of Medical Devices and IVDs	Medical device regulation	4.8	10-03-2023	10-03-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Manufacture of Medical Devices and IVDs	International practices	4.9	13-03-2023	13-03-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Standards of Medical Device, Quality Assurance, and Testing	Standards of Medical Device	3.1	08-02-2023	08-02-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Standards of Medical Device, Quality Assurance, and Testing	basic concept of Quality Assurance	3.2	10-02-2023	10-02-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Standards of Medical Device, Quality Assurance, and Testing	Quality Assurance, and Testing	3.3	13-02-2023	13-02-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Standards of Medical Device, Quality Assurance, and Testing	Biocompatibility Studies on Medical Devices	3.4	14-02-2023	14-02-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Standards of Medical Device, Quality Assurance, and Testing	Clinical Investigation of Medical Devices	3.5	15-02-2023	15-02-2023	No	completed	Yes

College	Year	Program	Department	Sem	Sec	Faculty	Course	Code	Unit	Topic	Unit No	Planned Date	Actual Date	Guest	Status	Completed
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Standards of Medical Device, Quality Assurance, and Testing	Quality Assurance and Quality Management System	3.6	17-02-2023	17-02-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Standards of Medical Device, Quality Assurance, and Testing	ISO9000 and ISO13485	3.7	20-02-2023	20-02-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Standards of Medical Device, Quality Assurance, and Testing	Risk management	3.8	21-02-2023	21-02-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Standards of Medical Device, Quality Assurance, and Testing	ISO14971	3.9	22-02-2023	22-02-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Device and in Vitro Diagnostics	basic concept of medical devices	2.1	19-01-2023	19-01-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Device and in Vitro Diagnostics	Basic concept of vitro Diagnostics	2.2	23-01-2023	23-01-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Device and in Vitro Diagnostics	Types of devices including combination devices and Drug Vs device Vs IVD	2.3	24-01-2023	24-01-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Device and in Vitro Diagnostics	Medical Device Rules	2.4	25-01-2023	25-01-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Device and in Vitro Diagnostics	2017: Implications on medical devices	2.5	27-01-2023	27-01-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Device and in Vitro Diagnostics	2017: Implications on medical devices, Classification	2.6	03-02-2023	03-02-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Device and in Vitro Diagnostics	Labeling	2.7	06-02-2023	06-02-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Medical Device and in Vitro Diagnostics	Labeling of medical devices	2.8	07-02-2023	07-02-2023	No	completed	Yes

Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Introduction to Regulatory Affairs for Medical Devices	Basic concepts	1.1	02-01-2023	02-01-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Introduction to Regulatory Affairs for Medical Devices	Taxonomy of medical devices and their risk classes	1.2	03-01-2023	03-01-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Introduction to Regulatory Affairs for Medical Devices	The regulatory process Regulatory Affairs Pre-Clinical Trial	1.3	04-01-2023	04-01-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Introduction to Regulatory Affairs for Medical Devices	Clinical Trial	1.4	06-01-2023	06-01-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Introduction to Regulatory Affairs for Medical Devices	Regulatory Bodies in India Central Drug Regulatory System	1.5	09-01-2023	09-01-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Introduction to Regulatory Affairs for Medical Devices	Drug & Cosmetics	1.6	09-01-2023	09-01-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Introduction to Regulatory Affairs for Medical Devices	Cosmetics Act-Medical Device Registration in India Product Development Protoco	1.7	10-01-2023	10-01-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Introduction to Regulatory Affairs for Medical Devices	Product Development Protocol	1.8	11-01-2023	11-01-2023	No	completed	Yes
Excel Engineering College (AUTONOMOUS)	2022-23	Under Graduate	Bio Medical Engineering	SEM-6	A	Santhiya R	MEDICAL REGULATORY AFFAIRS AND ETHICS	20BM601	Introduction to Regulatory Affairs for Medical Devices	Environmental Protection Act	1.9	18-01-2023	18-01-2023	No	completed	Yes