

## **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)

CW	D DA	Date	Semester Schedule	CWD	DAY		and the second
1	Mor			CWD	DAY		Semester Schedule
2	Tue				Sun	16-Oct-2022	Holiday
	Wed			58	Mon	17-Oct-2022	
3	Thu	4-Aug-2022		59	Tue	18-Oct-2022	
4	Fri	5-Aug-2022		60	Wed	19-Oct-2022	
5	Sat	6-Aug-2022		61	Thu	20-Oct-2022	
	Sun	7-Aug-2022		62	Fri	21-Oct-2022	
6	Mon	8-Aug-2022		63	Sat	22-Oct-2022	
	Tue	9-Aug-2022			Sun	23-Oct-2022	Holiday
7	Wed	10-Aug-2022			Mon	24-Oct-2022	Deepawali-Holiday
8	Thu	11-Aug-2022		64	Tue	25-Oct-2022	
9	Fri			65	Wed	26-Oct-2022	
10	Sat	12-Aug-2022 13-Aug-2022		66	Thu	27-Oct-2022	
	Sun	13-Aug-2022 14-Aug-2022		67	Fri	28-Oct-2022	a fa Suit i suit -
-	Mon	14-Aug-2022 15-Aug-2022		-	Sat	29-Oct-2022	Holiday for Students
11	Tue		indipendence Day		Sun	30-Oct-2022	Holiday
12	Wed	16-Aug-2022		68	Mon	31-Oct-2022	A second particular and a second p
14	vved	17-Aug-2022	Department Meeting - 2	69	Tue	1-Nov-2022	74
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	Endoscopy
	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 (3 <sup>RD</sup> & 4 <sup>TH</sup> Year) and IAE- II(2 <sup>ND</sup> YEAR)
16	Wed	24-Aug-2022	IAE-1 (3 <sup>RD</sup> & 4 <sup>TH</sup> Year)	75	Tue	8-Nov-2022	IAE-III (3 <sup>RD</sup> & 4 <sup>TH</sup> Year) and IAE- II(2 <sup>ND</sup> YEAR)
17 18	Thu Fri	25-Aug-2022 26-Aug-2022	IAE-1 (3 <sup>RD</sup> & 4 <sup>TH</sup> Year) IAE-1 (3 <sup>RD</sup> & 4 <sup>TH</sup> Year)	76	Wed	9-Nov-2022	IAE-III (3 <sup>RD</sup> & 4 <sup>TH</sup> Year) and IAE- II(2 <sup>ND</sup> YEAR)
19	Sat	27-Aug-2022	IAE-1 (3 % 4" Year)	77	Thu	10-Nov-2022	,
	Sun	28-Aug-2022		78	Fri	11-Nov-2022	IAE-III Answer Booklet submission
			Holiday IAE-1Answer Booklet		Sat	12-Nov-2022	Holiday for Students
20	Mon	29-Aug-2022	Submission Deadline for submission		Sun	13-Nov-2022	Holiday
1	Tue	30-Aug-2022 31-Aug-2022	of IAE-1 Result Analysis	79	Mon	14-Nov-2022	
	t main strain		VinayagarSathurthi	80	Tue	15-Nov-2022	
2	Thu Fri	1-Sep-2022 2-Sep-2022	IAE-1 Result Analysis Meeting	81	Wed	16-Nov-2022	Department Meeting - 6
4	Sat		ll f	82	Thu	17-Nov-2022	And the second second second
		3-Sep-2022	Not the part	83	Fri	18-Nov-2022	
	Sun	4-Sep-2022	Holiday	84	Sat	19-Nov-2022	
,	Mon	5-Sep-2022	Teachers Day		Sun	20-Nov-2022	Holiday
-	Tue	6-Sep-2022		85	Mon	21-Nov-2022	End semester Theory Exam for (3 <sup>RD</sup> & 4 <sup>TH</sup> Year)
	Wed	7-Sep-2022	Department Meeting - 3	86	Tue	22-Nov-2022	(0 0 4 Tear)
	Thu	8-Sep-2022		87	Wed	23-Nov-2022	

2	9 F	ri 9-Sep-2022	2	88	Thu		
~	S	at 10-Sep-202	2 Holiday for Students			24-Nov-2022	
$\sim$	Su	in 11-Sep-202	2 Holiday	09		25-Nov-2022	and the second sec
3(	1410	n 12-Sep-202		141	Sat	26-Nov-2022	in a state of the
3.	1 Tu				Sun	27-Nov-2022	
32	2 We			90		28-Nov-2022	a chonication Day
33	Th			91	Tue	29-Nov-2022	
34	Fr			92	Wed	30-Nov-2022	Department Meeting - 7
35	Sa			93	Thu	1-Dec-2022	
	Su			94	Fri	2-Dec-2022	
36	Mor			95	Sat	3-Dec-2022	
37	Tue	10 000 2022		-	Sun	4-Dec-2022	Holiday
38	Wed		_	96	Mon	5-Dec-2022	2 <sup>NO</sup> YEAR CLASS COMMITTEE MEETING
39	Thu	=: 000 2022	Department Meeting - 4	97	Tue	6-Dec-2022	MECTING
40	Fri	and oup LOLL		98	Wed	7-Dec-2022	IAE-III (2NDYEAR)
41	Sat	23-Sep-2022		99	Thu	8-Dec-2022	IAE-III (2 YEAR)
	Sun	24-Sep-2022		100	Fri	9-Dec-2022	IAE-III (2 YEAR)
42		25-Sep-2022	Holiday	101	Sat	10-Dec-2022	INC-III (2 YEAR)
43	Mon	26-Sep-2022			Sun	11-Dec-2022	Ball
-	Tue	27-Sep-2022		102	Mon	12-Dec-2022	Holiday
44	Wed	28-Sep-2022	IAE-II (3 <sup>RD</sup> & 4 <sup>TH</sup> Year) and IAE-I (2 <sup>ND</sup> YEAR)	103	Tue	13-Dec-2022	Human Rights Day
45	Thu	29-Sep-2022	IAE-II (3 <sup>RD</sup> & 4 <sup>TH</sup> Year) and IAE-I (2 <sup>ND</sup> YEAR)	104	Wed	14-Dec-2022	
46	Fri	30-Sep-2022	IAE-II (3 <sup>RD</sup> & 4 <sup>TH</sup> Year) and IAE-I (2 <sup>ND</sup> YEAR)	105	Thu	15-Dec-2022	
\$7	Sat	1-Oct-2022		106	Fri	16-Dec-2022	
-	Sun	2-Oct-2022	Holiday	107	Sat	17-Dec-2022	
8	Mon	3-Oct-2022	IAE-II Answer Booklet Submission		Sun	18-Dec-2022	Christmas Day Celebration Holiday
-	Tue	4-Oct-2022	Ayutha Pooja-Holiday	108	Mon	19-Dec-2022	
	Wed	5-Oct-2022	Vijaya dashami- Holiday	109	Tue	19-Dec-2022 20-Dec-2022	
9	Thu	6-Oct-2022	IAE-II Result Analysis meeting	110	Wed	21-Dec-2022	Dependence
	Fri	7-Oct-2022	and a start of the	111	Thu		Department Meeting - 8
	Sat	8-Oct-2022		112	Fri	22-Dec-2022	
	Sun	9-Oct-2022	Holiday	113		23-Dec-2022	
	Mon	10-Oct-2022	ALC: NOT OF THE OWNER OF THE OWNE	115	Sat	24-Dec-2022	and the second
	Tue	11-Oct-2022		11.4	Sun	25-Dec-2022	Holiday
	Wed	12-Oct-2022	Department Meeting - 5	114	Mon	26-Dec-2022	
	Thu	13-Oct-2022	-operation weeting - 5	115 116	Tue	27-Dec-2022	End semester The
-	Fri	14-Oct-2022			Wed	28-Dec-2022	End semester Theory Exam for (2NDYEAR)
+	Sat	15-Oct-2022	ASSOCIATION	117	Thu	29-Dec-2022	
			INAUGURATION	118	Fri	30-Dec-2022	

Academic Coordinator





HOD BAE



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# DEPARTMENT OF BIOMEDICAL ENGINEERING

Academic Year: -2022-23

Academic Calendar B.E/B.TechEven Semester (2022-2023)

	CWD	DAY	Date	Semester Schedule	-	-				_0_0
	1	Mon	2-Jan-202	3 Commencement of classe 3 <sup>RD</sup> & 4 <sup>TH</sup> Year	s for	CW		DAY	Date	Semester Schedule
	2	Tue	3-Jan-2023	3 <sup>RD</sup> & 4 <sup>TH</sup> Year	- 101					
I	3	Wed					S	Sat	11-Mar-20	23
	4	Thu	5-Jan-2023				S	un	12-Mar-20	nonday
ſ	5	Fri	6-Jan-2023			53	M		13-Mar-202	
1	6	Sat	7-Jan-2023			54	T		14-Mar-202	
F		Sun	8-Jan-2023			55	W		15-Mar-202	
Γ	7	Mon	9-Jan-2023	Holiday		56	Tł		16-Mar-202	- eperanent weeting -
Γ	8	Tue	10-Jan-2023			57	F		17-Mar-202	
Γ	9	Wed	11-Jan-2023			58	Sa		8-Mar-202	
Γ	10	Thu	12-Jan-2023				Su		9-Mar-202	
	11	Fri	13-Jan-2023			59	Mo	and the second	0-Mar-202	rionuay
		Sat	14-Jan-2023	Pongal Celebration		60	Tu		1-Mar-2023	"ILLING TEAR)
-		Sun	14-Jan-2023 15-Jan-2023	SHANKARANTHI			We	-	2-Mar-2023	"uuni(2 TEAR)
-	1	Mon	16-Jan-2023	Holiday & Pongal		61	Thu		2-Mar-2023 3-Mar-2023	integratew rear
-	100	Tue		Maattu Pongal		62	Fri		4-Mar-2023	
	-	Ned	17-Jan-2023	UzhavarThirunal			Sat			
-		-	18-Jan-2023	Department Meeting - 2			Sun		-Mar-2023	Holiday for Students
_	3	Thu	19-Jan-2023	Commencement of classes for 2 <sup>ND</sup> Year	or	62			-Mar-2023	Holiday
1	4	Fri	20-Jan-2023	2 Year	-	63	Mon	27	-Mar-2023	
1	5 3	Sat	21-Jan-2023	Students Sports Activity		64	Tue	28	-Mar-2023	
	S	un	22-Jan-2023	A CONTRACT OF A		65	Wed	29-	Mar-2023	
10	5 M	lon		Holiday Netaji Subash Ol		66	Thu		Mar-2023	
_			23-Jan-2023	Netaji Subash Chandra Bose Jayanthi	6	57	Fri		Mar-2023	Last working day for u
17		ue	24-Jan-2023		-			-		Last working day for theory classes for 3RD & 4TH Year
18	W	ed	25-Jan-2023	National Voter's Day	6		Sat	- XII	Apr-2023	
_	T	- 10 C	26-Jan-2023	Republic Day			Sun		Apr-2023	Holiday
19	F	ri	27-Jan-2023		6		Mon		pr-2023	CONTRACTOR OF A
_	Sa	at	28-Jan-2023	Holiday for Students	7		Tue		pr-2023	
_	Su	n	29-Jan-2023	Holiday	7	-	Ved	5-A	pr-2023	1 - soldstand and the
20	Mo	n	30-Jan-2023	IAE-1 (3 <sup>RD</sup> & 4 <sup>TH</sup> Year)	72	-	Thu	6-A	pr-2023	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
21	Tue	9 3	31-Jan-2023	IAE-1 (3 <sup>RD</sup> & 4 <sup>TH</sup> Year)	1	110000	Fri	7-Aj	or-2023	Good Friday
2	We	d	1-Feb-2023	IAE-1 (3 <sup>RD</sup> & 4 <sup>TH</sup> Year)	1011	S	Sat	8-Ap	or-2023	Holiday
			1.1.5	Seminar on "Challenges and	151	S	un	9-Ap	or-2023	Holiday
3	Thu	2	2-Feb-2023	opportunities in "Medical	-					Last working day for theory
-	-			Coding	73	M	on	10-Ap	or-2023	classes for 3RD & 4TH
4	Fri	_	-Feb-2023		74	-				Year
5	Sat	_	-Feb-2023	- 04	74	TU	_		or-2023	IAE-III (3 <sup>RD</sup> & 4 <sup>TH</sup> Year)
_	Sun	3.7	Feb-2023	Holiday	76	We			or-2023	IAE-III (3 <sup>RD</sup> & 4 <sup>TH</sup> Year)
_	Mon		Feb-2023	IAE-1 Result Analysis Meeting	76	Th	_		r-2023	IAE-III (3 <sup>RD</sup> & 4 <sup>TH</sup> Year)
_	Tue		Feb-2023	si yolo Micetalg		Fr	_		r-2023	Tamil New Year
_	Wed	8-	Feb-2023	Department Meeting - 3	78	Sa			r-2023	
_	Thu		Feb-2023		70	Su		16-Apr		Holiday
	Fri	10-	Feb-2023		79	Moi		17-Apr		No. 1
					80	Tue	1	18-Apr	-2023	

	Sat	11-Feb-2023	Holiday	81	Wed	19-Apr-2023	D. 1 11
	Sun	12-Feb-2023	Holiday	82	Thu		Department Meeting - 7
3	I MOU	13-Feb-2023	IAE-I (2 <sup>ND</sup> YEAR)	83	Fri		
3	140	14-Feb-2023	IAE-I (2 <sup>ND</sup> YEAR)	00	Sat	21-Apr-2023	
33	Wed	15-Feb-2023	IAE-I (2NDYEAR)	-	Sun	22-Apr-2023	Holiday for Students
34	Thu	16-Feb-2023	(- · · · · · · · · · · · · · · · · · · ·	84	Mon	23-Apr-2023 24-Apr-2023	Holiday End semester Theory Exam for(3 <sup>R0</sup> & 4 <sup>TH</sup> Year)
35	Fri	17-Feb-2023		85	-		for(3 <sup>ND</sup> & 4 <sup>TH</sup> Year)
36				65	Tue	25-Арг-2023	
	Sat	18-Feb-2023	Annual Day Celebration	86	Wed	26-Apr-2023	Last working day for theory classes for 2ND Year
37	Mon	19-Feb-2023	Holiday	87	Thu	27-Apr-2023	IAE-III (2NDYEAR)
38	Tue	20-Feb-2023		88	Fri	28-Apr-2023	IAE-III (2NDYEAR)
39	Wed	21-Feb-2023			Sat	29-Apr-2023	Holiday
40	-	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 (2 <sup>ND</sup> 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 Tue	27-Feb-2023		92	Fri	5-May-2023	End semesterPractical Exam for 2 <sup>ND</sup> Year
44	Wed	28-Feb-2023			Sat	6-May-2023	Holiday
45	Thu	1-Mar-2023	Department Meeting - 5		Sun	7-May-2023	Holiday
45	Fri	2-Mar-2023		93	Mon	8-May-2023	
40		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	et an
48	Mon	6-Mar-2023	IAE-II (3 <sup>RD</sup> & 4 <sup>TH</sup> Year) and IAE-I (2 <sup>ND</sup> YEAR)	97	Fri	12-May-2023	
49	Tue	7-Mar-2023	IAE-II (3 <sup>RD</sup> & 4 <sup>TH</sup> Year) and IAE-I (2 <sup>ND</sup> YEAR)		Sat	13-May-2023	Holiday
50	Wed	8-Mar-2023	IAE-II (3 <sup>RD</sup> & 4 <sup>TH</sup> Year) and IAE-I (2 <sup>ND</sup> YEAR)		Sun	14-May-2023	Holiday
51	Thu	9-Mar-2023	- F.	98	Mon	15-May-2023	End Semester Theory Exam for
52	Fri	10-Mar-2023		99	Tue	16-May-2023	2ND Year

Academic Coordinator



HOD



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#### Teach Plan Status Summary Report Excel Engineering College (AUTONOMOUS) Biomedical Engineering subject code/name: 20BM702/MEDICAL IMAGE PROCESSING Faculty name: R.Geetha

TRANSFORMATIONS     Scaling:     5.1     13 10 2023     13 10 2023     No     -     Yes     -     -       COMMETRIC TRANSFORMATIONS ITRANSFORMATIONS BILGERY MAPPING: BACKWAT Mapping: BACKWAT Mapping: BILGERY MAPPING: BACKWAT Mapping: BACKWAT Mapping: BILGERY MAPPING: BACKWAT MAPPING: CECOMETRIC TRANSFORMATIONS FRAILT-BASE Image Registration vintensity. Based Image Registration 5.4     13 10 2023     19 10 2023     No     -     Yes     -     -       CECOMETRIC TRANSFORMATIONS FRAILT-BASE Image Registration vintensity. Based Image Registration vintensity. Based Image Registration vintensity. Based Image Registration vintensity. Based Image Registration S 15.     19 10 2023     10 - 2023     No     -     Yes     -     -       CECOMETRIC TRANSFORMATIONS Path Tracing Using Drammic Programming 5.6     20 10 - 2023     No     -     Yes     -    -     -     <	Торіс	SubTopics	Seq. No	Planned Date	Date of Completion	Deviation Status	Remarks	Attachments	Text / Reference Book	Website Reference
GEOMETRIC TRANSFORMATIONS     Affine Transformations- brongeneous     5.2     19-10-2023     No     -     Yes     -       GEOMETRIC TRANSFORMATIONS     Backward Mapping- Bilinear interpolation- profile Analysis     5.3     19-10-2023     No     -     Yes     -       GEOMETRIC TRANSFORMATIONS     Bilinear interpolation- profile Analysis     5.3     19-10-2023     19-10-2023     No     -     Yes     -       GEOMETRIC TRANSFORMATIONS     Feature-Based Image Registration Vs Intensity- Based Image Registration     5.4     17-10-2023     No     -     Yes     -     -       GEOMETRIC TRANSFORMATIONS     Line and Path Detection     5.4     17-10-2023     17-10-2023     No     -     Yes     -     -       GEOMETRIC TRANSFORMATIONS     Line and Path Detection     5.5     19-10-2023     No     -     Yes     -	GEOMETRIC	Basics of rotation and								
TRANSFORMATIONS     Congeneous     5.2     19-10-2023     No     -     Yes     -       GEDMETRIC TRANSFORMATIONS     Backward Mapping- Billnear Interpolation- brofile Analysis     5.3     19-10-2023     19-10-2023     No     -     Yes     -       GEOMETRIC TRANSFORMATIONS     projective transformation or homography     5.4     13-10-2023     No     -     Yes     -     -       GEOMETRIC TRANSFORMATIONS     mage Registration is intensity- Based image Registration 5.4     17-10-2023     17-10-2023     No     -     Yes     -     -       GEOMETRIC TRANSFORMATIONS     Ine and Path Detection 5.5     19-10-2023     17-10-2023     No     -     Yes     -     -     -       GEOMETRIC TRANSFORMATIONS     the Hough Transform- Path Tracing Using Dynamic Programming     5.6     20-10-2023     No     -     Yes     -     <	TRANSFORMATIONS	scaling-	5.1	13-10-2023	13-10-2023	No	-	Yes	-	-
coordinates     5.2     19-10-2023     10-10-2023     N0     ·     Yes     ·       GEOMETRIC TRANSFORMATIONS Bilinear interpolation- Profile Analysis     5.3     19-10-2023     19-10-2023     N0     -     Yes     -       GEOMETRIC GEOMETRIC     mage Registration or homography     5.4     13-10-2023     19-10-2023     N0     -     Yes     -     -       GEOMETRIC TRANSFORMATIONS     reature fased Image Registration Vs Intensity- Based Image Registration     5.4     17-10-2023     19-10-2023     N0     -     Yes     -     -       GEOMETRIC TRANSFORMATIONS     time and Path Detection     5.5     19-10-2023     19-10-2023     N0     -     Yes     -     -       GEOMETRIC TRANSFORMATIONS     time and Path Detection     5.5     19-10-2023     19-10-2023     N0     -     Yes     - <td< td=""><td>GEOMETRIC</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	GEOMETRIC									
GEOMETRIC     Backward     Appling- transSport     Disk     Disk <thdisk< th="">     Disk     Disk     <t< td=""><td>TRANSFORMATIONS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<></thdisk<>	TRANSFORMATIONS									
TRANSFORMATIONS     Ensuremetropolation- brofile Analysis     5.3     19 10-2023     N0     -     Yes     -       GEOMETRIC TRANSFORMATIONS     rojective transformation or homography     5.4     13-10-2023     19-10-2023     N0     -     Yes     -       GEOMETRIC TRANSFORMATIONS     reature-Based Image Registration     5.4     13-10-2023     12-10-2023     N0     -     Yes     -     -       GEOMETRIC TRANSFORMATIONS     line and Path Detection     5.4     17-10-2023     19-10-2023     N0     -     Yes     -     -       GEOMETRIC TRANSFORMATIONS     line and Path Detection     5.5     19-10-2023     19-10-2023     N0     -     Yes     -     -       GEOMETRIC TRANSFORMATIONS     line and Path Detection     5.5     19-10-2023     19-10-2023     N0     -     Yes     -     -       GEOMETRIC TRANSFORMATIONS     intra-tracting Circular tracting: Locating Circular tracting: Locating Circular tracting: Locating Circular transformations     N0     -     Yes     -     -       GEOMETRIC CORDETRIC Concormates     Case tudy for an tracting. Locating Circula			5.2	19-10-2023	19-10-2023	NO	-	Yes	-	-
Profile Analysis     5.3     19-10-2023     10-0-023     No     Yes     -       GEOMETRIC TRANSFORMATIONS COMETRIC     mage Registration- Registration Statue-Based Image Registration Statue-Based Image Registration Statue-Based Image Registration Statue-Based Image Registration S.4     17-10-2023     17-10-2023     No     -     Yes     -       RRANSFORMATIONS REGOMETRIC     Ine and Path Detection     5.5     19-10-2023     19-10-2023     No     -     Yes     -     -       RRANSFORMATIONS REGOMETRIC     Ine and Path Detection     5.6     20-10-2023     20-10-2023     No     -     Yes     -     -       GEOMETRIC     Trendougling for Path TRANSFORMATIONS     Statue-Statue-Statue Statue-Statue Statue-Statu		11 0								
GEOMETRIC     Immediation     Disc     Disc <thdisc< th="">     Disc     Disc</thdisc<>	TRANSFORMATIONS	•				No		Voc		
TRANSFORMATIONS or homography     s.4     13-10-2023     13-10-2023     No     -     Yes     -     -       GEOMETRIC Image Registration Registration Vs Intensity- Based Image Registration     5.4     13-10-2023     17-10-2023     No     -     Yes     -     -       GEOMETRIC TRANSFORMATIONS     Line and Path Detection     5.5     19-10-2023     17-10-2023     No     -     Yes     -     -       GEOMETRIC TRANSFORMATIONS     Line and Path Detection     5.5     19-10-2023     19-10-2023     No     -     Yes     -     -       GEOMETRIC TRANSFORMATIONS     Forparamic Programming Dynamic Programming     5.6     20-10-2023     20-10-2023     No     -     Yes     -     -       GEOMETRIC Constructures.     Programming Structures.     5.7     25-10-2023     20-10-2023     No     -     Yes     -     -       GEOMETRIC Constructures.     Structures.     5.7     25-10-2023     26-10-2023     No     -     Yes     -     -       GEOMETRIC CLOR MAGES     Basics of Psycho-visual mage.     5.8	0501157510	Profile Analysis	5.3	19-10-2023	19-10-2023	NO	-	res	-	-
or homography     5.4     13-10-2023     13-10-2023     No     ·     Yes     ·     ·       GEOMETRIC     mage Registration - Based Image Registration Vs intensity- Based Image Registration Vs intensity- Image Registration Vs intensity- Based Image Registration Vs intensity- Image Registration Vs intensity- Image Registration Vs intensity- Based Image Registration VS intensity- Image Registration VS intensity- Registration VS intensity- Image Registration VS intensity- Registration VS intensity Registration VS intensity- Image Registration VS intensity- Image Registration VS intensity- Image Registration VS intensinding intensity- Registra										
GEOMETRIC     Inage Registration- Registration Vs Intensity- Based Image Registration Vs Intensity- Based Image Registration- COLOR IMAGES Representation of an RGB Color Image Registration Vs Intensity- Baser Pattern of color Image Sensor/Color Camera ALP Representation of an RGB Color Image Registration Vs Intensity Registration Registration Vs Intensity Registration Vs Intensity Registration Regerestation Regerestation Registration Regerestation Registratio	TRANSFORMATIONS			12 10 2022	12 10 2022	No	_	Vec		_
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Registration Vs Intensity- Based Image Registration     5.4     17.10-2023     17.10-2023     No     -     Yes     -     -       GEOMETRIC TRANSFORMATIONS     Lee and Path Detection     5.5     19-10-2023     19-10-2023     No     -     Yes     -										
Based Image Registration     5.4     17-10-2023     17-10-2023     No     No     No       IRANSFORMATIONS     Line and Path Detection     5.5     19-10-2023     No     -     Yes     -     -       IRANSFORMATIONS     Detent fracting Using     No     No     -     Yes     -     -       GEOMETRIC     The Hough Transform- TRANSFORMATIONS     Tracing: Locating Circular Structures.     S.7     25-10-2023     20-10-2023     No     -     Yes     -     -       GEOMETRIC     Case study for an TRANSFORMATIONS     Case study for an ophthalmology to track the velns in Fundus     No     -     Yes     -	TRANSFORMATIONS	-				No	_	Vec		_
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TRANSFORMATIONS     Line and Path Detection     5.5     19-10-2023     19-10-2023     No     -     Yes     -     -       GEOMETRIC     The Hough Transform- TRANSFORMATIONS     Path Tracing Using Dynamic Programming     5.6     20-10-2023     20-10-2023     No     -     Yes     - <td< td=""><td>GEOMETRIC</td><td>Dased image Registration</td><td>5.4</td><td>17-10-2023</td><td>17-10-2023</td><td></td><td></td><td></td><td></td><td></td></td<>	GEOMETRIC	Dased image Registration	5.4	17-10-2023	17-10-2023					
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Postscript on Colors4.611-10-202311-10-202311-10-2023Image: Color in the construction of a head CT image4.712-10-2023Image: Color in the construction of a head CT imageImage: Color in the construction of a head CT imageImage: Color in the construction of a head CT imageImage: Color in the construction of a head CT imageImage: Color in the construction of a head CT imageImage: Color in the construction of a head CT imageImage: Color in the construction of a head CT imageImage: Color in the construction of a head CT imageImage: Color in the construction of construction of concepts - minimum distance classifier Vs parametric classifierImage: Color in the construction of color in the color								N N		
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   -	COLOR IMAGES	, 0		11 10 2022	11 10 2022	NO	-	Yes	-	-
COLOR IMAGES   study on Classification of a head CT image   4.7   12-10-2023 </td <td></td> <td></td> <td>4.6</td> <td>11-10-2023</td> <td>11-10-2023</td> <td>Ne</td> <td></td> <td>Vaa</td> <td></td> <td></td>			4.6	11-10-2023	11-10-2023	Ne		Vaa		
a head CT image   4.7   12-10-2023   12-10-2023   0   0   0   0     FUNDAMENTALS OF COLOR IMAGES   Histogram and annotation concepts - minimum distance classifier Vs parametric classifier   -   No   -   Yes   -						INO	-	res	-	-
FUNDAMENTALS OF   Histogram and annotation concepts - minimum distance classifier   No   -   Yes   -     FUNDAMENTALS OF   4.8   04-10-2023   04-10-2023   04-10-2023   Image: Classifier in the second sec	COLOR IIVIAGES		17	12-10 2022	12-10-2022					
COLOR IMAGES   annotation concepts - minimum distance classifier Vs parametric classifier   -   No   -   Yes   -   -     FUNDAMENTALS OF   -		•	4./	12-10-2023	12-10-2023	-				
minimum distance running runn		-				No	-	γρς	_	_
classifier Vs parametric classifier 4.8 04-10-2023 04-10-2023   FUNDAMENTALS OF Image: Classifier Image: Classifier Image: Classifier	COLON INIAGES					110		105		
classifier     4.8     04-10-2023     04-10-2023       FUNDAMENTALS OF										
FUNDAMENTALS OF		-	4.8	04-10-2023	04-10-2023					
	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	21 09 2022	No	_	Yes	-	_
BLOB [Binary Large		5.0	51-08-2025	51-08-2025	110		103		
Object] ANALYSIS	BLOB Features- BLOB								
Object] AIVALISIS	Area	3.9	01-09-2023	01-09-2023	No	-	Yes	-	_
MORPHOLOGY		0.0	01-05-2025	01-05-2025					
TECHNIQUES									
	Bounding Box,								
	Bounding Circle,	2.1	02-09-2023	02-09-2023	No	-	Yes	-	-
MORPHOLOGY	bounding circle,		02-09-2023	02-09-2023					
TECHNIQUES	Convex Hull,								
	compactness of a								
	BLOB	2.2	12-09-2023	12-09-2023	No	-	Yes	-	-
MORPHOLOGY			12-09-2023	12-09-2023					
TECHNIQUES	Center of Mass,								
	Perimeter, Circularity and BLOB								
	Classification-	2.3	26-08-2023	26-08-2023	No	-	Yes	-	-
MORPHOLOGY	Classification		20-00-2025	20.00.2023					
TECHNIQUES	Cell Classification								
	Using BLOB Analysis								
	for image cytometer	2.4	13-09-2023	13-09-2022	No	-	Yes	-	-
MORPHOLOGY			13-09-2023	13-09-2023					
TECHNIQUES	Feature Selection,								
TECHNIQUES	Feature Ranges and Evaluation of								
	Classification	2.5	14-09-2023	14-09-2023	No	-	Yes	-	-
MORPHOLOGY	Classification		14-09-2023	14-09-2023					
TECHNIQUES		2.6			No		Yes	_	_
	IAE 2	2.0	20-09-2023	20-09-2023	NO	-	103	_	
MORPHOLOGY		2.7			No		Yes		
TECHNIQUES	Coaching hour	2.7	26-08-2023	26-08-2023	NO	-	res	-	-
MORPHOLOGY									
TECHNIQUES	Revision hour	2.8	19-08-2023	10 09 2022	No	-	Yes	-	-
MORPHOLOGY	Convolution Vs		19-08-2023	19-08-2023					
TECHNIQUES	Correlation kernels-				No	_	Yes	_	_
TECHNIQUES	Template Matching	2.9	17-08-2023	17-08-2023	110		103		
Fundamentals of	Edge Detection-		17-00-2025	17-00-2025					
Image Processing	Gradients-Image	1.1			No	_	Yes	-	_
intege i rocessing	Edges-		18-08-2023	18-08-2023			103		
Fundamentals of	Morphology on binary								
Image Processing	images	1.2	19-08-2023	19-08-2023	No	-	Yes	-	-
Fundamentals of	box-shaped and disc								
Image Processing	shaped structuring	1.3			No	-	Yes	-	-
0 0	element- Hit and Fit,		22-08-2023	22-08-2023					
Fundamentals of									
Image Processing	Dilation and Erosion,	1.4	23-08-2023	23-08-2023	No	-	Yes	-	-
Fundamentals of	Compound								
Image Processing	Operations- Boundary								
	Detection	1.5	31-08-2023	31-08-2023	No	-	Yes	-	-
Fundamentals of							1		
Image Processing	Introduction of Image								
	Processing	1.6	04-07-2023	04-07-2023	No	-	Yes	-	-
Fundamentals of	General Frame work-		-			1			İ
Image Processing	Digital Images-	1.7	20-07-2023	20-07-2023	No	-	Yes	-	-
Fundamentals of	Image Coordinate	1.8			No	-	Yes	-	-
Image Processing	Systems-The Region-								
	of-Interest (ROI)		21-07-2023	21-07-2023					
Fundamentals of	Binary Images-Label								
Image Processing	Images	1.9	27-08-2023	27-08-2023	No	-	Yes	-	-
<u> </u>							1		1

### Teach Plan Status Summary Report Excel Engineering College (AUTONOMOUS) Biomedical Engineering Subject code/name: 20BME23/MEDICAL DEVICE DESIGN AND PROTOTYPING Faculty name: R.Geetha

Торіс	SubTopics	Seq.No	Planned Date	Date of Completion	Deviation Status	Remarks	Attachments	Text / Reference Book	Website Reference
Human Factors	Human Factors,								
Engineering	Human Factors				No	-	Yes	-	-
	process	5.1	10-10-2023	10-10-2023					
Human Factors Engineering	Specifying the User								
Engineering	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	overview of Verification and Validation for Embedded Software		16 10 2022	16 10 2022	No	-	Yes	-	-
Engineering	in Medical System Additive	5.5	16-10-2023	16-10-2023					
Manufacturing	manufacturing processes; Machining,				No	-	Yes	-	-
Process	forming	4.1	01-11-2023	01-11-2023					
Manufacturing Process	electro-discharge machining (EDM) and electrochemical				No	-	Yes	-	-
	machining (ECM)	4.2	10-11-2023	10-11-2023					
Manufacturing	laser-based								
Process	processing	4.3	28-10-2023	28-10-2023	No	-	Yes	-	-
Manufacturing Process			12 00 2022	12 00 2022	No		Yes		
Manufacturing Process	casting and molding Machines and equipment including	4.4	13-09-2023						
	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	2.1	04-10-2023	04 10 2022	No	-	Yes	_	_
Orthopaedic	Implants	3.1	04-10-2025	04-10-2025	No	-	Yes	_	_
Designs	orthoses	3.2	07-10-2023	07-10-2023	NO		105	_	
Orthopaedic									
Designs	Assistive devices	3.3	09-10-2023	09-10-2023	No	-	Yes	-	-
Orthopaedic		_							
Designs Orthonna dia	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					No	1	Yes	1	
Methods in	Introduction to Finite					-		-	-
Implant Design	Element Method	2.1	11-09-2023	11-09-2023					
Finite Element	Finite element				No		Yes		
Methods in Implant Design	modelling of cells, tissues and organs	2.2	20-09-2023	20-00-2022		_		_	_
Finite Element	LISSUES AILU UI BAILS	2.2	20-09-2023	20-03-2023	No	-	Yes	-	-
Methods in Implant Design	Medical device design and prototyping	2.3	13-09-2023	13-09-2023		-			

	Customized and				No		Yes		
Finite Element	universal design of				NO		res		
	Ũ								
	Implants and					-		-	-
1 0	prosthesis.	2.4	04-08-2023	04-08-2023					
Introduction to					No		Yes		
Regulatory						-		-	-
Affairs for	Introduction of								
Medical Devices	medical devices	1.1	08-08-2023	08-08-2023					
Introduction to	Generating Ideas and				No		Yes		
Regulatory	Concepts, Design					-		-	-
Affairs for	Process versus Design								
Medical Devices	Control,	1.2	19-08-2023	19-08-2023					
Introduction to					No		Yes		
Regulatory						-		-	-
Affairs for	Implementation of								
Medical Devices	Design Procedures	1.3	22-08-2023	22-08-2023					
Introduction to					No		Yes		
Regulatory									
Affairs for	Material selection and					-		-	-
Medical Devices	Biocompatibility	1.4	04-07-2023	04-07-2023					
Introduction to					No		Yes		
Regulatory									
Affairs for	Design Specification,								
Medical Devices	Quality in Design	1.5	05-07-2023	05-07-2023		-		-	-
Introduction to					No		Yes		
Regulatory	Detailed Design								
	(hardware/ Software		1			-		-	-
Medical Devices	design),	1.6	07-07-2023	07-07-2023					

### Excel Engineering College (AUTONOMOUS) BE-Bio Medical Engineering 2022-23 Teach Plan Status Summary Report

### 20BM502Biomedical Instrumentation Staff Name:Rokini K

								Text /	
				Date of	Deviation		Attachme	Reference	Website
Торіс	SubTopics	Seq.No	Planned Date	Completion	Status	Remarks	nts	Book	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	Physiological Effects of								
Instrumentation and Electrical Safety	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	Methods of Accident								
Instrumentation and Electrical Safety	Prevention	5.9	04-11-2022	04-11-2022	Yes	Completed	Yes	-	-
	Mechanism of								
UNIT- IV ENT, Ophthalmic and	hearing, Measurement of								
Urological Instrumentation	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	Pure Tone and Speech								
Urological Instrumentation	Audiometer	4.3	11-10-2022	11-10-2022	Yes	Completed	Yes	-	-

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	-	-
	Urological system:					·			
UNIT- IV ENT, Ophthalmic and	Nephroscope,								
Urological Instrumentation	Resectoscope, Ureteroscope	49	20-10-2022	20-10-2022	No	Completed	Yes	-	_
UNIT-III Nervous System and	Neuronal communication		20 10 2022	20 10 2022		Completee	100		
Instrumentation	system	3.1	16-09-2022	16-09-2022	Yes	Completed	Yes	-	-
UNIT-III Nervous System and	The organization of the	0.1							
Instrumentation	brain	3.2	19-09-2022	19-09-2022	No	Completed	Yes	-	_
UNIT-III Nervous System and	measurements from the								
, Instrumentation	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	Amplitude and Frequency								
Instrumentation	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	Experimental Analysis of								
Instrumentation	Behavior	3.8	06-10-2022	06-10-2022	Yes	Completed	Yes	-	-
UNIT-III Nervous System and	Biofeedback								
Instrumentation	Instrumentation	3.9	07-10-2022	07-10-2022	Yes	Completed	Yes	-	-
UNIT-II Cardiovascular And	Heart and cardiovascular								
Respiratory Instrumentation	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	Blood pressure								
Respiratory Instrumentation	measurement	2.3	01-09-2022	01-09-2022	No	Completed	Yes	-	-
UNIT-II Cardiovascular And	Measurement of heart								
Respiratory Instrumentation	sounds	2.4	02-09-2022	02-09-2022	No	Completed	Yes	-	-

UNIT-II Cardiovascular And	Systemic and Pulmonary								
Respiratory Instrumentation	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	Measurement of Pulmonary								
Respiratory Instrumentation	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	-	-
	Respiratory system-model,								
UNIT-II Cardiovascular And	Spirometer,								
Respiratory Instrumentation	Plethysmography	2.10	16-09-2022	16-09-2022	No	Completed	Yes	-	-
	Physiological system of the								
UNIT I INTRODUCTION	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	-	-
	Development of Biomedical								
UNIT I INTRODUCTION	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	-	-
	Components of Man								
UNIT I INTRODUCTION	instrument system	1.4	16-08-2022	16-08-2022	Yes	Completed	Yes	-	-
	Problems encountered in								
UNIT I INTRODUCTION	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	-	-
	General constraints in								
	design of medical								
UNIT I INTRODUCTION	instrumentation system	1.7	23-08-2022	23-08-2022	No	Completed	Yes	-	-
	General constraints in								
	design of medical								
UNIT I INTRODUCTION	instruments	1.9	23-08-2022	23-08-2022	Yes	Completed	Yes	-	-

#### Teach Plan Status Summary Report Excel Engineering College (AUTONOMOUS) Biomedical Engineering subject code/name:20AIO06/Human Computer Interaction Faculty name:G.Lavanya

Торіс	SubTopics	Seq.No	Planned Date	Date of Completion	Deviation Status	Remarks	Attachments	Text / Reference Book	Website Reference
Software Tools	Specification	564.140	Date	completion	Jiaius	Remarks	Attachments	DOOK	Reference
And Interaction	Methods	5.1	06-04-2023	06-04-2023	No	-	Yes	-	_
Software Tools		_			-				
And Interaction	Interface Building								
Devices	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		0.0	11 0 1 1010	11 0 . 1010					
And Interaction									
Devices	Function Keys	5.4	31-03-2023	31-03-2023	No	-	Yes	-	_
Software Tools		5.4	51 05 2025	51 05 2025			103		
And Interaction	Pointing Devices								
Devices	Speech Recognition.	5.5	13-04-2023	13-04-2023	No	_	Yes		
Windows &	Windows : New	5.5	13-04-2023	13-04-2023	NO	-	163	-	-
Components	Navigation Schemes	4.1	24-02-2022	08-03-2023	No		Yes		L
Windows &	Navigation Schemes	4.1	24-03-2023	08-03-2023	NU	-	Tes	-	-
Components	Selection of Window	4.2	21 02 2022	10-03-2023	No		Yes		
Components	Selection of Devices	4.2	21-05-2025	10-03-2023	INO	-	res	-	-
Mindawa 9									
Windows &	Based on Screen	4.2	04 04 2022	04 04 2022	N				
Components	Based Controls	4.3	04-04-2023	04-04-2023	No	-	Yes	-	-
Windows &	Components : Text	4.5	47 00 0000	17 02 2022					
Components	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	-	-
	Design Goals- Screen								
Screen Designing	Planning and Purpose	3.1	10-02-2023	10-02-2023	No	-	Yes	-	-
	Organizing Screen								
	Elements- Ordering								
	of Screen Data and								
Screen Designing	Content	3.2	02-02-2023	02-02-2023	No	-	Yes	-	-
	Navigation and Flow-								
	Visually Pleasing								
Screen Designing	Composition	3.3	14-02-2023	14-02-2023	No	-	Yes	-	-
	Amount of								
Screen Designing	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	-	-
	Presenting								
Screen Designing	Information	3.6	23-02-2023	23-02-2023	No	-	Yes	-	-
	Simply and								
Screen Designing	Meaningfully	3.7	24-02-2023	24-02-2023	No	-	Yes	-	-

	- Information		1			1			
	- Information retrieval on web-								
Screen Designing	Statistical Analysis	3.8	28-02-2023	<u> 28-U2-2U22</u>	No	_	Yes		
Screen Designing	Technological	5.0	28-02-2025	28-02-2025	NO	-	Tes	-	-
	considerations in								
Scroon Designing		3.9	01-03-2023	01 02 2022	No		Yes		
Screen Designing	Interface Design GUI : Popularity of	3.9	01-03-2023	01-03-2023	INO	-	res	-	-
The Graphical									
User	graphics-The concept								
Interface&Design	of direct	2.4	20.04.2022	20.04.2022					
Process	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	Web user-Interface								
Process	Popularity	2.4	27-01-2023	27-01-2023	No	-	Yes	-	-
The Graphical			1					1	
User	Characteristics and								
Interface&Design	Principles of User								
Process	Interface.	2.5	31-01-2023	31-01-2023	No	_	Yes	-	-
The Graphical		2.0	01 01 1010	01 01 1010					
User									
Interface&Design									
Process	Design process	2.6	03-02-2023	03-02-2023	No		Yes		_
The Graphical	Design process	2.0	03-02-2023	03-02-2023	NU		163	-	-
User									
	llumon interaction								
Interface&Design	Human Interaction	2.7	07 02 2022	07 02 2022	N				
Process The Creation	with computers	2.7	07-02-2023	07-02-2023	No	-	Yes	-	-
The Graphical	lucus antes a set								
User	Importance of								
Interface&Design	Human								
Process	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	-	-
	IMPORTANCE OF								
INTRODUCTION	USER INTERFACE	1.1	03-01-2023	03-01-2023	No	-	Yes	-	-
	DEFINITION OF								
INTRODUCTION	HUMAN INTERFACE	1.2	05-01-2023	05-01-2023	No	-	Yes	-	-
	IMPORTANCE OF								
INTRODUCTION	GOOD DESIGN	1.3	06-01-2023	06-01-2023	No	-	Yes	-	-
	BENEFITS OF GOOD								
INTRODUCTION	DESIGN	1.4	10-01-2023	10-01-2023	No	-	Yes	-	-
	HUMAN CENTERED		1						
	DEVELOPMENT AND								
INTRODUCTION	EVALUATION	1.5	11-01-2023	10-01-2023	No	-	Yes	-	-
	HUMAN								
	PERFORMANCE								
INTRODUCTION	MODELS	1.6	12-01-2023	12-01-2023	No	_	Yes	_	_
	INTRODUCTION OF	1.0	12 01-2023	12 01 2025	NU		103		
INTRODUCTION	SCREEN DESIGN	1.7	13-01-2023	13-01-2022	No	_	Yes		
					No	-		F	-
INTRODUCTION	SCREEN DESIGN	1.8	18-01-2023	18-01-2023	No	-	Yes	-	-
	A BRIEF HISTORY OF	1.0	10 01 2022	10 01 2022	Ne		Vec		
INTRODUCTION	SCREEN DESIGN	1.9	19-01-2023	19-01-2023	No	-	Yes	-	-



## EXCEL ENGINEERING COLLEGE

(Autonomous) Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Accredited by NBA (AERO, CSE, ECE & MECH), NAAC with "A<sup>\*</sup>" and Recognised by UGC (2f &12B) KOMARAPALAYAM - 637303

**BE-Bio Medical Engineering** 

#### 20BM604 DIAGNOSTIC AND THERAPEUTIC EQUIPMENT THEORY

20BW004 DIAGNOSTIC AND THERAFEOTIC EQUIPMENT THEORY				Data of	Deviatio	
Topic	SubTonics		Planned Date	Date of	Deviatio	Domarka
Topic	SubTopics Hemodialyzer as Artificial Kidney-Dialyzers	Seq.No		Completion	n Status	Remarks
UNIT V Advanced Medical Equipment's	, , ,	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
	Heart Lung Machine-Uses and Need for heart surgery		~~ ~~ ~~~			
UNIT V Advanced Medical Equipment's	-Technical Controls and key design steps.	5.4	29-03-2023	29-03-2023	No	Completed
	Heart Lung Machine-Uses and Need for heart surgery, Technical					
UNIT V Advanced Medical Equipment's	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
		2.0	02 2020	01 1010		

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
	Diagnostic Ultrasound -Physics and Biological effects of					
UNIT-II Ultrasonic Imaging Systems	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
	Mechanical Sqa1aector -Multi-Element Linear Array					
UNIT-II Ultrasonic Imaging Systems	rectangular – Curvilinear	2.5	25-01-2023	25-01-2023	No	Completed
	Duplex Scanner- Modern Ultrasound Imaging Systems, Beam					
UNIT-II Ultrasonic Imaging Systems	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
	3D/4D Color Doppler Ultrasound Imaging Systems for Cardiac					
UNIT-II Ultrasonic Imaging Systems	application	2.8	06-02-2023	06-02-2023	No	Completed
	3D/4D Color Doppler Ultrasound Imaging Systems for					
UNIT-II Ultrasonic Imaging Systems	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

	Academic					o. (1)			<b>-</b> .				Date of	Deviation		
College Name	Year	Degree	Department	Semester	Section	Staff Name	Subject Name	Subject Code	Торіс	SubTopics	Seq.No	Planned Date	Completion	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

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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

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

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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