

## **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





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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



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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-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-Statue-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										
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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		_
GEOMETRIC     TRANSFORMATIONS     Line and Path Detection     5.5     19-10-2023     19-10-2023     No     -     Yes     -       TRANSFORMATIONS     Line and Path Detection     5.5     19-10-2023     19-10-2023     No     -     Yes     -     -       TRANSFORMATIONS     Tracing Using     5.6     20-10-2023     20-10-2023     No     -     Yes     -     -       GEOMETRIC     Preprocessing for Path Tracing: Locating Circular     5.7     25-10-2023     20-10-2023     No     -     Yes     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -<		-	5.4	17-10-2022	17-10-2023	NU	-	Tes	-	-
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					
GEOMETRIC     The Hough Transform- TRANSPORMATIONS     Tracing Using Dynamic Programming     5.6     20-10-2023     20-10-2023     No     Yes     -     -       GEOMETRIC     Preprocessing for Path Tracing-Locating Circular Structures.     5.7     25-10-2023     20-10-2023     No     -     Yes     -     -       GEOMETRIC     Case study for an ophthalmology to track the veins in Fundus     5.8     26-10-2023     25-10-2023     No     -     Yes     -     -       COLOR IMAGES     septeriments-     4.1     22-09-2023     26-10-2023     No     -     Yes     -     -       COLOR IMAGES     septeriments-     4.1     22-09-2023     22-09-2023     No     -     Yes     -     -       FUNDAMENTALS OF COLOR IMAGES     additive colors-     4.2     23-09-2023     23-09-2023     No     -     Yes     -     -       FUNDAMENTALS OF COLOR IMAGES     additive colors-     4.2     23-09-2023     27-09-2023     No     -     Yes     -     -       FUNDAMENTALS OF COLOR IMAGES     additive color		Line and Path Detection	55	19-10-2022	19-10-2022	No	-	Yes	_	_
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COLOR IMAGES Color Image-Representation of an RGB Color Image-4.327-09-2023No-YesFUNDAMENTALS OF COLOR IMAGESBayer pattern of color image sensor/Color cameraA.406-10-202306-10-2023No-YesFUNDAMENTALS OF COLOR IMAGESThe RGB Color Space - HSI Color RepresentationA.510-10-202306-10-2023No-YesFUNDAMENTALS OF COLOR IMAGESColor Thresholding- Color RepresentationA.510-10-202310-10-2023No-YesFUNDAMENTALS OF COLOR IMAGESColor Thresholding- Chroma-Keying- Postscript on ColorsA.611-10-202311-10-2023No-YesFUNDAMENTALS OF COLOR IMAGESPixel Classification - case study on Classification of a head CT imageA.712-10-202312-10-2023No-YesFUNDAMENTALS OF COLOR IMAGESHistogram and annotation concepts - minimum distance classifier Vs parametric classifier Vs parametric classifier Vs parametricA.804-10-202304-10-2023No-YesFUNDAMENTALS OF COLOR IMAGESFUNDAMENTALS OFHistogram and annotation concepts - minimum distance classifier Vs parametric classifier Vs parametricA.804-10-202304-10-2023No-YesFUNDAMENTALS OFIntervent of the sparametric classifier Vs parametric classifier Vs parametricA.804-1	COLOR IMAGES	additive colors	4.2	23-09-2023	23-09-2023	No	-	Yes	-	-
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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   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   12-10-2023   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