Sr.	Course Name	Course	Course Plan			SL	Credits	In se	emester	End Semester		End	Total F	oints
No.	00000010000	Code	In Hrs/week			in Hr	0100100	Evaluation		Evaluation		Semester Weightage		
			L	T	P	s/s		Mid	Mid	IE/	Points	Time Hrs		
						W		Term	Term	TW				
						m		Points	Time					
									Hrs					
						The	eory Cour	ses						
1	Differential Calculus & Complex Numbers (DCCN)	BS-BTE101	2	1	0	48	3	30	1.5	20	100	3	50%	100
2	Engineering Chemistry	BS-BTE102	2	0	0	32	2	30	1.5	20	100	3	50%	100
3	Engineering Mechanics	ES-BTE101	2	0	0	32	2	30	1.5	20	100	3	50%	100
4	Engineering Graphics	ES-BTE102	2	0	0	32	2	30	1.5	20	100	3	50%	100
5	Biology for Engineers	BS-BTE103	1	0	0	16	1	30	1.5	20	50	2	50%	100
6	Basic Electrical Engineering I	ES-BTE103	2	0	0	32	2	30	1.5	20	100	3	50%	100
						Labo	ratory Co	urses						
7	Engineering Chemistry Lab.	BS-BTE151	0	0	2	2	1			25	25		100%	50
8	Engineering Mechanics Lab.	ES-BTE151	0	0	2	2	1			25	25		100%	50
9	Engineering Graphics Lab.	ES-BTE152	0	0	2	2	1			25	25		100%	50
			Voc	ation	nal a	nd A	bility Enh	ancemen	t Course		•			
10	Design Thinking and Innovation	SE-BTE101	2	1	0	48	3	30	1.5	20	50	2	50%	100
11	Workshop Practice	VS-BTE101	0	0	2	2	1			25	25		100%	50
		_			Va	alue F	ducation	Course						
12	Ethics, Values and Life Skills	VE-BTE101	2	0	0	32	2	30	1.5	20	50	2	50%	100
				C	o-Cı	ırricı	ılar Cours	se/ Activi						
13	Co-curricular course/ activity	CC-BTE101	1	0	0	16	1	30	1.5	20		\$\$\$		50
		Total	16	2	9		22							1050

L: Lecture, P: Practical, T Tutorial, IE: Internal Evaluation SL: Self Learning

1 credit corresponds to 30 Hours of student engagement in a semester.  $\tilde{A}$ part from actual contact hours (L T P), the remaining hours are used for self-learning (SL) by students

Sr.	Course Name	Course	ng with Minor in Course Plan			SL	Credi	In semester Evaluation		End Semester Evaluation		End Semester Weightage	Total Points	
No.		Code	In Hrs/week			in	ts						10001	. 011105
101		0000	L	T	P	Hrs/		Mid	Mid	IE/	Points	Time Hrs		
						sem		Term	Term	TW				
								Points	Time					
									Hrs					
							ory Cou							
1	Integral Calculus and Differential Equations (ICDN)	BS-BTE201	2	1	0	48	3	30	1.5	20	100	3	50%	100
2	Engineering Physics	BS-BTE202	2	0	0	32	2	30	1.5	20	100	3	50%	100
3	Basic Electrical Engineering - II	ES-BTE201	2	0	0	32	2	30	1.5	20	100	3	50%	100
4	Electronic Circuits	PC-BTE201	3	0	0	48	3	30	1.5	20	100	3	50%	100
						Labor	atory C	ourses						
5	Engineering Physics Lab.	BS-BTE251	0	0	2	2	1			25	25		100%	50
6	Basic Electrical Engineering Lab.	ES-BTE251	0	0	2	2	1			25	25		100%	50
7	Electronic Circuits Lab.	PC-BTE251	0	0	2	2	1			25	25		100%	50
		•		Vo	ocatio	nal an	d Skills	Enhance	ement					
8	Electrical Workshop Practice	VS-BTE201	0	0	2	2	1			25	25		100%	50
9	Programming for Problem Solving	SE-BTE201	0	0	4	<mark>64</mark>	2	30	1.5	20	100	3	100%	100
					Abi	lity En	hancem	ent Coui	rse					
10	Communication Skills	AE-BTE201	2	0	1	48	3	30	1.5	20	100	3	50%	100
					In	dian K	nowledg	ge Systen	n					
11	Indian traditional Knowledge	IK-BTE201	2	0	0	32	2	30	1.5	20	50	2	50%	100
					Co-C		lar Cou	rse/ Acti						
12	Co-curricular course/activity	CC-BTE201	1	0	0	16	1	30	1.5	20		\$\$\$		50
		Total	14	1	13		22							950

L: Lecture, P: Practical, T Tutorial, IE: Internal Evaluation SL: Self Learning

1 credit corresponds to 30 Hours of student engagement in a semester. Apart from actual contact hours (L T P), the remaining

## hours are used for self-learning (SL) by students.

#### Evaluation for R23:

### 1. The Evaluation of any course shall be such that all Course Outcomes are appropriately mapped.

- 2. Mid term: The courses under the category "Theory courses", the evaluation is based on Mid Term of 30 points for 1.5 hours duration. Tentatively the first four modules of the course content will be covered in Mid Term. Any change in the same will be informed by the course instructor. The courses under the category "Skill Enhancement", "Value Education", the evaluation is based on activity (Presentation, Test, Mini project, Field project, Practical Examination) of 30 points each.
- 3. IE: Internal Evaluation will be carried out by the course instructor for 20 points. It is the continuous evaluation throughout the semester. The evaluation will be based on minimum three of the following activities decided by course instructor. The maximum points that can be assigned to one activity will be 07. The course instructor needs to inform the students and head of the department about the activities those will be considered for IE and the points assigned to them in first week of semester. The course instructor will submit the internal evaluation points (out of 20 with activity wise break up) to examination section before the beginning of End Semester examination. List of Activities: 1. Class Involvement 2. Assignments 3. Problem Solving 4. Mini project 5. Quizzes 6. Presentation 7. Oral.
- 4. End semester evaluation: The course under the category "Theory courses", the evaluation is based on End semester examination of 100 points. The end semester examination will cover all the modules of the course content. The courses under the category "Skill Enhancement", "Value Education", the evaluation is based on activity (Presentation, Test, Mini project, Field project, Practical Examination) of 50/100 points.
- 5. The evaluation of the laboratory courses include internal evaluation IE of 25 points and End semester evaluation of 25 points. The internal evaluation is based on [10 points: Laboratory Attendance, 15 points: Laboratory work] and End semester evaluation is based on [25 points: Quizes/ Presentation/ Practical Examination/ Mini project/Oral may be any two activities]
- 6. The co-curricular course credits in semester VIII can be earned through participation in various activities during his/ her graduation. The co-curricular course credits are not considered for CPI calculation.
- 7. The evaluation of Field project/ Project/ Internship shall be as mentioned in Academic Rules.
- 8. \$\$\$\$ The evaluation for Co-curricular course/ activity shall be defined by course instructor or activity evaluator. The evaluation for 50 points will be carried out throughout the semester and the grade Pass/ No pass will be awarded which will not be considered for CPI calculation.

  Note: Refer Academic and Examination rules and regulations for further details.

### UG certificate:

The student who wish to Exit after first year and willing to get "UG Certificate" needs to earn additional 6 credits through

- 1. \*\*Skill Enhancement course 1 [SE-BTC202]: 3 credits
- 2. \*\*Skill Enhancement course 2 [SE-BTC203] : 3 credits \*\*

The courses should be completed through SWAYAM/ NPTEL defined by the department

# [\*\*\*\*] Multidisciplinary Minor

The institute will offer Multidisciplinary Minor from the following list based on the resources available. Each Minor is designed for 14 credits.. The students need to select the Minor in the beginning of semester IV.

- Minor in Robotics
- Minor in Management
- Minor in Sustainable Engineering and Management
- Minor in Industry 4.0 technolog
- Minor in electronics
- Minor in AIML and Data Science