



NITTE
(Deemed to be University)

Established under Section 3 of UGC Act 1956
Accredited with 'A+' Grade by NAAC

**NMAM INSTITUTE
OF TECHNOLOGY**

Off-Campus Centre, Nitte - 574 110, Karkala

GROUP – 2

B. Tech. in

Biotechnology Engineering (BT)

B. Tech: Scheme of Teaching and Examinations 2022-26
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
 (Effective from the academic year 2022 - 23)

GROUP - 2

I SEMESTER (BT)

SI No.	Course and Course code		Course Title	Teaching Department	Teaching hours/Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/Drawing	Duration in hours	CIE	SEE	Total Marks	
					L	T	P					
1	BSC	MA1001-1	Matrix Algebra & Calculus	MA	3	0	0	3	50	50	100	3
2	BSC	CY1001-1	Engineering Chemistry	CH	3	0	2	3	50	50	100	4
3	ESC	CS1001-1	Problem-Solving through Programming	CS	3	0	2	3	50	50	100	4
4	ESC	EE1001-1	Basic Electrical Engineering	EE	3	0	2	3	50	50	100	4
5	ESC	ME1003-1	Elements of Mechanical Engineering	ME	3	0	0	3	50	50	100	3
6	AEC	BT1651-1	Biology for Engineers	BT	1	0	0	1	50	50	100	1
7	AEC	CS1002-1	IT Skills	CS	1	0	2	3	50	50	100	2
8	MNC	CV1002-1	Environmental Science	CV	1	0	0	1	50	50	100	0
9	MNC	UM1002-1	Skill Development Lab Group- B	Any	0	0	4	0	0	0	0	0
Total					18	0	12	20	400	400	800	21

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GROUP - 2

II SEMESTER (BT)

SI No.	Course and Course code		Course Title	Teaching Department	Teaching hours/Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/Drawing	Duration in hours	CIE	SEE	Total Marks	
					L	T	P					
1	BSC	MA1003-1	Differential Equations and Laplace Transforms	MA	3	0	0	3	50	50	100	3
2	BSC	PH1001-1	Engineering Physics	PH	3	0	2	3	50	50	100	4
3	ESC	CV1001-1	Elements of Civil Engineering	CV	3	0	0	3	50	50	100	3
4	ESC	EC1001-1	Basic Electronics	EC	3	0	0	3	50	50	100	3
5	ESC	BT1002-1	Cell Biology	BT	2	0	2	3	50	50	100	3
6	HSMC	HU1001-1	Technical English	HU	1	0	2	3	50	50	100	2
7	HSMC	HU1002-1	Constitution of India	HU	1	0	0	1	50	50	100	1
8	MNC	ME1004-1	Engineering Visualization	ME	2	0	0	0	50	0	50	0
9	MNC	UM1001-1	Skill Development Lab Group- A	Any	0	0	4	0	0	0	0	0
Total					18	0	10	19	400	350	750	19

Note:

BSC: Basic Science Course, **ESC:** Engineering Science Course, **HSMC:** Humanity and Social Science & Management Courses, **AEC** –Ability Enhancement Courses, **MNC:** Mandatory Non credited course **UM:** University Mandatory



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GROUP – 2

B.Tech. in

- 1. Computer & Communication Engineering (CC)**
- 2. Artificial Intelligence & Data Science (AD)**

B. Tech: Scheme of Teaching and Examinations 2022-26
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 (Effective from the academic year 2022 - 23)

GROUP - 2

I SEMESTER (CC, AD)

SI No.	Course and Course code		Course Title	Teaching Department	Teaching hours/Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/Drawing	Duration in hours	CIE	SEE	Total Marks	
					L	T	P					
1	BSC	MA1002-1	Calculus and Differential Equations	MA	3	0	0	3	50	50	100	3
2	BSC	CY1001-1	Engineering Chemistry	CH	3	0	2	3	50	50	100	4
3	ESC	CS1001-1	Problem-Solving through Programming	CS	3	0	2	3	50	50	100	4
4	ESC	EE1001-1	Basic Electrical Engineering	EE	3	0	2	3	50	50	100	4
5	ESC	ME1003-1	Elements of Mechanical Engineering	ME	3	0	0	3	50	50	100	3
6	AEC	BT1651-1	Biology for Engineers	BT	1	0	0	1	50	50	100	1
7	AEC	CS1002-1	IT Skills	CS	1	0	2	3	50	50	100	2
8	MNC	CV1002-1	Environmental Science	CV	1	0	0	1	50	50	100	0
9	MNC	UM1002-1	Skill Development Lab Group- B	Any	0	0	4	0	0	0	0	0
Total					18	0	12	20	400	400	800	21

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GROUP - 2

II SEMESTER (CC, AD)

SI No.	Course and Course code		Course Title	Teaching Department	Teaching hours/Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/Drawing	Duration in hours	CIE	SEE	Total Marks	
					L	T	P					
1	BSC	MA1004-1	Discrete Mathematics & Numerical Methods	MA	3	0	0	3	50	50	100	3
2	BSC	PH1001-1	Engineering Physics	PH	3	0	2	3	50	50	100	4
3	ESC	CV1001-1	Elements of Civil Engineering	CV	3	0	0	3	50	50	100	3
4	ESC	EC1001-1	Basic Electronics	EC	3	0	0	3	50	50	100	3
5	ESC	EC1002-1	Applied Digital Logic Design	EC	2	0	2	3	50	50	100	3
6	HSMC	HU1001-1	Technical English	HU	1	0	2	3	50	50	100	2
7	HSMC	HU1002-1	Constitution of India	HU	1	0	0	1	50	50	100	1
8	MNC	ME1004-1	Engineering Visualization	ME	2	0	0	0	50	0	50	0
9	MNC	UM1001-1	Skill Development Lab Group- A	Any	0	0	4	0	0	0	0	0
Total					18	0	10	19	400	350	750	19

Note:

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GROUP – 2

B. Tech. in Civil Engineering (CV)

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 (Effective from the academic year 2022 - 23)

GROUP - 2

I SEMESTER (CV)

SI No.	Course and Course code		Course Title	Teaching Department	Teaching hours/Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/Drawing	Duration in hours	CIE	SEE	Total Marks	
					L	T	P					
1	BSC	MA1001-1	Matrix Algebra & Calculus	MA	3	0	0	3	50	50	100	3
2	BSC	CY1001-1	Engineering Chemistry	CH	3	0	2	3	50	50	100	4
3	ESC	CS1001-1	Problem-Solving through Programming	CS	3	0	2	3	50	50	100	4
4	ESC	EE1001-1	Basic Electrical Engineering	EE	3	0	2	3	50	50	100	4
5	ESC	ME1003-1	Elements of Mechanical Engineering	ME	3	0	0	3	50	50	100	3
6	AEC	BT1651-1	Biology for Engineers	BT	1	0	0	1	50	50	100	1
7	AEC	CS1002-1	IT Skills	CS	1	0	2	3	50	50	100	2
8	MNC	CV1002-1	Environmental Science	CV	1	0	0	1	50	50	100	0
9	MNC	UM1002-1	Skill Development Lab Group- B	Any	0	0	4	0	0	0	0	0
Total					18	0	12	20	400	400	800	21

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GROUP - 2

II SEMESTER (CV)

SI No.	Course and Course code		Course Title	Teaching Department	Teaching hours/Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/Drawing	Duration in hours	CIE	SEE	Total Marks	
					L	T	P					
1	BSC	MA1003-1	Differential Equations and Laplace Transforms	MA	3	0	0	3	50	50	100	3
2	BSC	PH1001-1	Engineering Physics	PH	3	0	2	3	50	50	100	4
3	ESC	CV1001-1	Elements of Civil Engineering	CV	3	0	0	3	50	50	100	3
4	ESC	EC1001-1	Basic Electronics	EC	3	0	0	3	50	50	100	3
5	ESC	ME1001-1	Engineering Skill Development Practice	ME	0	0	2	2	50	50	100	1
6	ESC	ME1002-1	Computer Aided Engineering Graphics	ME	0	2	2	3	50	50	100	2
7	HSMC	HU1001-1	Technical English	HU	1	0	2	3	50	50	100	2
8	HSMC	HU1002-1	Constitution of India	HU	1	0	0	1	50	50	100	1
9	MNC	UM1001-1	Skill Development Lab Group- A	Any	0	0	4	0	0	0	0	0
Total					14	2	12	21	400	400	800	19

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GROUP – 2

B. Tech. in

- 1. Electronics & Communication Engineering (EC)**
- 2. Electrical & Electronics Engineering (EE)**

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I SEMESTER (EC, EE)

SI No.	Course and Course code		Course Title	Teaching Department	Teaching hours/Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/Drawing	Duration in hours	CIE	SEE	Total Marks	
					L	T	P					
1	BSC	MA1001-1	Matrix Algebra & Calculus	MA	3	0	0	3	50	50	100	3
2	BSC	CY1001-1	Engineering Chemistry	CH	3	0	2	3	50	50	100	4
3	ESC	CS1001-1	Problem-Solving through Programming	CS	3	0	2	3	50	50	100	4
4	ESC	EE1001-1	Basic Electrical Engineering	EE	3	0	2	3	50	50	100	4
5	ESC	ME1003-1	Elements of Mechanical Engineering	ME	3	0	0	3	50	50	100	3
6	AEC	BT1651-1	Biology for Engineers	BT	1	0	0	1	50	50	100	1
7	AEC	CS1002-1	IT Skills	CS	1	0	2	3	50	50	100	2
8	MNC	CV1002-1	Environmental Science	CV	1	0	0	1	50	50	100	0
9	MNC	UM1002-1	Skill Development Lab Group- B	Any	0	0	4	0	0	0	0	0
Total					18	0	12	20	400	400	800	21

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					Theory Lecture	Tutorial	Practical/Drawing	Duration in hours	CIE	SEE	Total Marks	
					L	T	P					
1	BSC	MA1003-1	Differential Equations and Laplace Transforms	MA	3	0	0	3	50	50	100	3
2	BSC	PH1001-1	Engineering Physics	PH	3	0	2	3	50	50	100	4
3	ESC	CV1001-1	Elements of Civil Engineering	CV	3	0	0	3	50	50	100	3
4	ESC	EC1001-1	Basic Electronics	EC	3	0	0	3	50	50	100	3
5	ESC	EC1002-1	Applied Digital Logic Design	EC	2	0	2	3	50	50	100	3
6	HSMC	HU1001-1	Technical English	HU	1	0	2	3	50	50	100	2
7	HSMC	HU1002-1	Constitution of India	HU	1	0	0	1	50	50	100	1
8	MNC	ME1004-1	Engineering Visualization	ME	2	0	0	0	50	0	50	0
9	MNC	UM1001-1	Skill Development Lab Group- A	Any	0	0	4	0	0	0	0	0
Total					18	0	10	19	400	350	750	19

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