

## SHRI G S INSTITUTE OF TECHNOLOGY &amp; SCIENCE, INDORE

Choice Based Credit System (CBCS)

**Bachelor of Engineering (Civil Engineering)**

Semester: III

S. No.	Subject Code	Subject Name	Hours /Week			Maximum marks allotted				Credits		
			L	T	P	Theory		Practical		T	P	TOT
						Th.	CW	SW	Pr.			
1	CE21001	Engineering Geology	3	-	2	70	30	40	60	3	1	4
2	CE21002	Geodesy	3	-	2	70	30	40	60	3	1	4
3	CE21003	Strength of Materials	3	1	2	70	30	40	60	4	1	5
4	CE21004	Material Technology	3	-	2	70	30	40	60	3	1	4
5	MA21005	Mathematics III	3	1	-	70	30	-	-	4	-	4
6	HU21499	Skill Development, Innovation and Entrepreneurship	-	1	2	-	-	50	-	-	2	2
		Total	15	3	10	350	150	210	240	17	6	23
Optional Subject(s)												
7	OC-I	Open Category-II	-	-	-	-	-	-	-	-	-	3
Grand Total			15	3	10	350	150	210	240	17	6	26

Semester: IV

S. No.	Subject Code	Subject Name	Hours /Week			Maximum marks allotted				Credits		
			L	T	P	Theory		Practical		T	P	TOT
						Th.	CW	SW	Pr.			
1	CE21502	Construction Technology-I	3	-	2	70	30	40	60	3	1	4
2	CE21503	Geotechnical Engineering	3	-	2	70	30	40	60	3	1	4
3	HU21515	Humanities, Environment & Engineering Economics	3	-	-	70	30	-	-	3	-	3
4	CE21551	Building Planning and Architecture	3	-	2	70	30	40	60	3	1	4
5	CE21554	Structural Mechanics	2	1	2	70	30	40	60	3	1	4
6	CE21557	Fluid Mechanics	3	-	2	70	30	40	60	3	1	4
		Total	17	1	10	420	180	200	300	18	5	23
Optional Subject(s)												
7	OC-II	Open Category-II	-	-	-	-	-	-	-	-	-	3
Grand Total			17	1	10	420	180	200	300	18	5	26

**Bachelor of Engineering (Electrical Engineering)**

Semester: III

S. No.	Subject Code	Subject Name	Hours /Week			Maximum Marks allotted				Credits		
			L	T	P	Theory		Practical		T	P	TOT
						Th.	CW	SW	Pr.			
1	EE22003	Electrical Measurement & Measuring	3	1	2	70	30	40	60	4	1	5

2	EE22011	Network Theory	3	1	2	70	30	40	60	4	1	5
3	EC22012	Basic Electronics	3	-	2	70	30	40	60	3	1	4
4	MA22014	Mathematics -III	3	1	-	70	30	-	-	4	-	4
5	HU22015	Humanities, Environment & Engineering Economics	3	-	-	70	30	-	-	3	-	3
6	EE22441	Electrical Workshop-I	-	1	2	-	-	40	60	-	2	2
		Total	15	4	8	350	150	160	240	18	5	23
Optional Subject(s)												
7	OC-I	Open Category-I	-	-	-	-	-	-	-	-	-	3
Grand Total			15	4	8	350	150	160	240	18	5	26

## Semester: IV

S. No.	Subject Code	Subject Name	Hours /Week			Maximum Marks allotted				Credits		
			L	T	P	Theory		Practical		T	P	TOT
						Th.	CW	SW	Pr.			
1	EE22551	Electrical Machines-I	3	-	2	70	30	40	60	3	1	4
2	EE22553	Electro-Magnetic Field & Materials	3	1	-	70	30	-	-	4	-	4
3	EE22554	Instrumentation	3	-	2	70	30	40	60	3	1	4
4	EC22562	Digital Electronics	3	-	2	70	30	40	60	3	1	4
5	MA22563	Mathematics-IV	3	1	-	70	30	-	-	4	-	4
6	EE22992	Electrical Workshop & Design-II	-	-	2	-	-	40	60	-	1	1
7	HU22999	Skill Development, Innovation and Entrepreneurship	-	1	2	-	-	50	-	-	2	2
		Total	15	3	10	350	150	210	240	17	6	23
Optional Subject(s)												
8	OC-II	Open Category-II	-	-	-	-	-	-	-	-	-	3
Grand Total			15	3	10	350	150	210	240	17	6	26

## Bachelor of Engineering (Industrial &amp; Production Engineering)

## Semester: III

S. No.	Subject Code	Subject Name	Hours /Week			Maximum Marks allotted				Credits		
			L	T	P	Theory		Practical		T	P	TOT
						Th.	CW	SW	Pr.			
1	IP23001	Manufacturing Process-I	3	-	4	70	30	40	60	3	2	5
2	IP23002	Principle & Practices of Management	2	-	-	70	30	-	-	2	-	2
3	MA23003	Mathematics -III	3	1	-	70	30	-	-	4	-	4
4	ME23004	Mechanics of Solids	2	1	2	70	30	40	60	3	1	4
5	ME23005	Mechanical Metallurgy	3	-	2	70	30	40	60	3	1	4
6	EI23017	Basic Electronics Engg.	3	-	2	70	30	40	60	3	1	4
		Total	16	2	10	420	180	160	240	18	5	23

Optional Subject(s)												
7	OC-I	Open Category-I	-	-	-	-	-	-	-	-	-	3
Grand Total			16	2	10	420	180	160	240	18	5	26

Semester: IV

S. No.	Subject Code	Subject Name	Hours /Week			Maximum Marks allotted				Credits		
			L	T	P	Theory		Practical		T	P	TOT
						Th.	CW	SW	Pr.			
1	IP23501	Operations Research	2	1	2	70	30	40	60	3	1	4
2	IP23502	Manufacturing Process-II	3	-	4	70	30	40	60	3	2	5
3	HU23503	Engineering Economics & FA	2	-	-	70	30	-	-	2	-	2
4	ME23555	Theory of Machine	3	-	2	70	30	40	60	3	1	4
5	ME23556	Fuild Mechanics & Thermal Engg.	2	1	2	70	30	40	60	3	1	4
6	CO23559	Object Oriented Programming	3	-	2	70	30	40	60	3	1	4
		Total	15	2	12	420	180	200	300	17	6	23
Optional Subject(s)												
9	OC-II	Open Category-II	-	-	-	-	-	-	-	-	-	3
Grand Total			15	2	12	420	180	200	300	17	6	26

### Bachelor of Engineering (Computer Science & Engineering)

Semester: III

S. No.	Subject Code	Subject Name	Contact Hours			Max Marks				Credits		Total
			L	T	P	Theory		Practical		Th	Pr	
						Th.	CW	SW	Pr.			
1	MA24003	Mathematics-III	3	1	-	70	30	-	-	4		4
2	CO24007	Data Structures	3	1	2	70	30	40	60	4	1	5
3	CO24009	Computer Architecture	3	-	2	70	30	40	60	3	1	4
4	EC24010	Analog & Digital Electronics	3	-	2	70	30	40	60	3	1	4
5	HU24015	Humanities, Environment & Engineering Economics	3	-	-	70	30	-	-	3	-	3
6	EC24498	Electronics Workshop	-	-	2	-	-	40	60	-	1	1
7	HU24499	Skill Development, Innovation and Entrepreneurship	-	1	2	-	-	50	-	-	2	2
		Total	15	3	10	350	150	210	240	17	6	23
Optional Subject(s)												
8	OC-I	Open Category Elective -I	-	-	-	-	-	-	-	-	-	3
Grand Total			15	3	10	350	150	210	240	17	6	26

Semester: IV

S. No.	Subject Code	Subject Name	Contact Hours			Max Marks				Credits		Total
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S. No.			L	T	P	Maximum Marks allotted				Th	Pr	
						Th.	CW	SW	Pr.			
1	CO24553	Discrete Structures	3	-	-	70	30	-	-	3	-	3
2	MA24554	Mathematics-IV	3	1	-	70	30	-	-	4	-	4
3	CO24557	Object Oriented Programming Systems	3	1	2	70	30	40	60	4	1	5
4	CO24558	Software Engineering	3	-	2	70	30	40	60	3	1	4
5	EC24559	Analog and Digital Communication	3	-	2	70	30	40	60	3	1	4
6	CO24992	Computer Workshop	-	-	2	-	-	40	60	-	1	1
7	CO24999	Programming Practices	-	1	2	-	-	40	60	-	2	2
Total			15	3	10	350	150	200	300	17	6	23
Optional Subject(s)												
8	OC-II	Open Category Elective -II	-	-	-	-	-	-	-	-	-	3
Grand Total			15	3	10	350	150	200	300	17	6	26

### Bachelor of Engineering (Electronics & Telecommunications Engg.)

Semester: III

S. No.	Subject Code	Subject Name	Hours /Week			Maximum Marks allotted				Credits		
			L	T	P	Theory		Practical		T	P	TOT
						Th.	CW	SW	Pr.			
1	EC25001	Basic Electronics	3	-	2	70	30	40	60	3	1	4
2	EC25003	EM Field & Waves	3	1	-	70	30	-	-	4	-	4
3	EE25004	Network Theory & Analysis	3	-	2	70	30	40	60	3	1	4
4	MA25014	Mathematics -III	3	1	-	70	30	-	-	4	-	4
5	HU25015	Humanities, Environment & Engineering Economics	3	-	-	70	30	-	-	3	-	3
6	EC25498	Electronic Workshop-I	-	-	4	-	-	40	60	-	2	2
7	EC25499	Software Workshop-I	-	-	4	-	-	40	60	-	2	2
Total			15	2	12	350	150	160	240	17	6	23
Optional Subject(s)												
8	OC-I	Open Category-I	-	-	-	-	-	-	-	-	-	3
Grand Total			15	2	12	350	150	160	240	17	6	26

Semester: IV

S. No.	Subject Code	Subject Name	Hours /Week			Maximum Marks allotted				Credits		Total Credits
			L	T	P	Theory		Practical		T	P	
						Th.	CW	SW	Pr.			
1	EC25552	Analog Electronics	3	-	2	70	30	40	60	3	1	4
2	EC25553	Communication Engineering	3	-	2	70	30	40	60	3	1	4
3	EC25554	Digital Electronics	3	-	2	70	30	40	60	3	1	4
4	EC25555	Transmission lines & Waves Filters	3	-	-	70	30	-	-	3	-	3
5	MA25563	Mathematics- IV	3	1	-	70	30	-	-	4	-	4
6	EC25992	Electronics Workshop-II	-	-	4	-	-	40	60	-	2	2

7	HU25999	Skill Development, Innovation and Entrepreneurship	-	1	2	-	-	50	-	-	2	2
		Total	15	2	12	350	150	210	240	16	7	23
Optional Subject(s)												
8	OC-II	Open Category-II	-	-	-	-	-	-	-	-	-	3
Grand Total			15	2	12	350	150	210	240	16	7	26

### Bachelor of Engineering (Mechanical Engineering)

Semester: III

S. No.	Subject Code	Subject Name	Hours /Week			Maximum Marks allotted				Credits		
			L	T	P	Theory		Practical		T	P	TOT
						Th.	CW	SW	Pr.			
1	ME26001	Fluid Mechanics	4	-	2	70	30	40	60	4	1	5
2	ME26002	Strength of Materials	3	-	2	70	30	40	60	3	1	4
3	MA26004	Mathematics -III	3	1	-	70	30	-	-	4	-	4
4	ME26008	Material Science	3	-	2	70	30	40	60	3	1	4
5	IP26009	Manufacturing Processes-I	3	-	2	70	30	40	60	3	1	4
6	HU26499	Skill Development, Innovation and Entrepreneurship	-	2	2	-	-	50	-	-	2	2
		Total	16	3	10	350	150	210	240	17	6	23
Optional Subject(s)												
7	OC-I	Open Category-I	-	-	-	-	-	-	-	3	-	3
Grand Total			16	3	10	350	150	210	240	20	6	26

Semester: IV

S. No.	Subject Code	Subject Name	Hours /Week			Maximum Marks allotted				Credits		
			L	T	P	Theory		Practical		T	P	TOT
						Th.	CW	SW	Pr.			
1	MA26555	Mathematics-IV	3	1	-	70	30	-	-	4	-	4
2	ME26560	Design of Machine Elements	3	-	2	70	30	40	60	3	1	4
3	ME26562	Kinematics of Machine	3	-	2	70	30	40	60	3	1	4
4	EC26563	Basic Electronics Engineering	3	-	2	70	30	40	60	3	1	4
5	ME26564	Applied Thermodynamics	3	-	2	70	30	40	60	3	1	4
6	ME26998	Machine Drawing	-	2	2	-	-	40	60	-	3	3
		Total	15	3	10	350	150	200	300	16	7	23
Optional Subject(s)												
7	OC-II	Open Category-II	-	-	-	-	-	-	-	-	-	3
Grand Total			15	3	10	350	150	200	300	16	7	26

### Bachelor of Engineering (Electronics & Instrumentation)

S. No.	Subject Code	Subject Name	Hours /Week			Maximum Marks allotted				Credits		
			L	T	P	Theory		Practical		T	P	
						Th.	CW	SW	Pr.			
1	EI27001	Circuit Analysis & Synthesis	3	-	2	70	30	40	60	3	1	4
2	EI27002	Fundamentals of Measurement	2	1	2	70	30	40	60	3	1	4
3	EI27003	Electronic Devices & Circuits	3	-	2	70	30	40	60	3	1	4
4	EI27004	Signals & Systems	3	-	-	70	30	-	-	3	-	3
5	MA27014	Mathematics -III	3	1	-	70	30	-	-	4	-	4
6	HU27015	Humanities, Environment & Engineering Economics	3	-	-	70	30	-	-	3	-	3
7	EI27498	Electronic Workshop	-	-	2	-	-	40	60	-	1	1
		Total	17	2	8	420	180	160	240	19	4	23
Optional Subject(s)												
8	OC-I	Open Category-I	-	-	-	-	-	-	-	-	-	3
Grand Total			17	2	8	420	180	160	240	19	4	26

Semester: IV

S. No.	Subject Code	Subject Name	Hours /Week			Maximum Marks allotted				Credits		Total Credits
			L	T	P	Theory		Practical		T	P	
						Th.	CW	SW	Pr.			
1	EI27501	Analog Electronics	3	-	2	70	30	40	60	3	1	4
2	EI27502	Electromagnetic Fields & Waves	3	-	-	70	30	-	-	3	-	3
3	EI27551	Sensors & Transducers	3	-	2	70	30	40	60	3	1	4
4	EI27562	Digital Electronics	3	-	2	70	30	40	60	3	1	4
5	MA27563	Mathematics-IV	3	1	-	70	30	-	-	4	-	4
6	EI27992	Software Workshop	-	-	4	-	-	40	60	-	2	2
7	HU27999	Skill Development, Innovation and Entrepreneurship	-	1	2	-	-	50	-	-	2	2
		Total	15	2	12	350	150	210	240	16	7	23
Optional Subject(s)												
8	OC-II	Open Category-II	-	-	-	-	-	-	-	-	-	3
Grand Total			15	2	12	350	150	210	240	16	7	26

**Bachelor of Engineering ( Information Technology)**

Semester : III

S.No.	Subject Code	Subject Name	Hours/Week			Maximum Marks Allotted				Credits		Total Credits
			L	T	P	Theory		Practical		T	P	
						Th.	CW	SW	Pr.			
1	IT28001	Object Oriented Programming	3	-	2	70	30	40	60	3	1	4
2	EC28002	Basic & Digital Electronics	3	-	2	70	30	40	60	3	1	4
3	IT28003	Digital Systems & Computer Architecture	3	-	2	70	30	40	60	3	1	4

4	MA28005	Mathematics - III	3	1	2	70	30			4		4
5	IT28008	Data Structures	3	-	2	70	30	40	60	3	1	4
6	IT28498	System Software Laboratory-I	-	-	2	-	-	40	60	-	1	1
7	HU28499	Skill Development, Innovation and Entrepreneurship	-	1	2	-	-	50	-	-	2	2
Total			15	2	12	350	150	250	300	16	7	23
Optional Subject(s)												
8	OC-I	Open Category – I	-	-	-	-	-	-	-	-	-	3
Grand Total			15	2	12	350	150	250	300	16	7	26

## Semester : IV

S.No.	Subject Code	Subject Name	Hours/Week			Maximum Marks Alloted				Credits		Total Credits
			L	T	P	Theory		Practical		T	P	
						Th.	CW	SW	Pr.			
1	IT28501	Discrete Structures	3	-	-	70	30	-	-	3	-	3
2	IT28502	Computer Organization	3	-	2	70	30	40	60	3	1	4
3	IT28503	Software Engineering	3	-	2	70	30	40	60	3	1	4
4	HU28515	Humanities, Environment & Engineering Economics	3	-	-	70	30	-	-	3	-	3
5	EC28553	Communication Engineering	3	-	-	70	30	-	-	3	-	3
6	IT28557	Systems Programming	3	-	2	70	30	40	60	3	1	4
7	IT28998	System Software Laboratory – II	-	-	2	-	-	40	60	-	1	1
8	IT28999	Scientific Computing	-	-	2	-	-	40	60	-	1	1
Total			18	0	10	420	180	200	300	18	5	23
Optional Subject(s)												
8	OC-II	Open Category – II	-	-	-	-	-	-	-	-	-	3
Grand Total			-	-	-	-	-	-	-	-	-	26

## Bachelor of Engineering (BioMedical Engg.)

## Semester: III

S. No.	Subject Code	Subject Name	Hours /Week			Maximum Marks allotted				Credits		
			L	T	P	Theory		Practical		T	P	
						Th.	CW	SW	Pr.			
1	BM29003	Human Anatomy & Physiology	3	-	2	70	30	40	60	3	1	4
2	BM29007	Bioelectricity & Transducers	2	1	2	70	30	40	60	3	1	4
3	EE29011	Network Analysis	3	-	2	70	30	40	60	3	1	4
4	EI29017	Basic Electronics	3	-	2	70	30	40	60	3	1	4
5	MA29024	Mathematics -III	3	1	-	70	30	-	-	4	-	4
6	EE29498	Electrical Workshop	-	-	2	-	-	40	60	-	1	1

7	<b>HU29499</b>	<b>Skill Development, Innovation and</b>	-	1	2	-	-	50	-	-	2	2
		Total	14	3	12	350	150	250	300	16	7	23
Optional Subject(s)												
8	OC-I	Open Category-I	-	-	-	-	-	-	-	-	-	3
Grand Total			14	3	12	350	150	250	300	16	7	26

## Semester: IV

S. No.	Subject Code	Subject Name	Hours /Week			Maximum Marks allotted				Credits		Total Credits
			L	T	P	Theory		Practical		T	P	
						Th.	CW	SW	Pr.			
1	<b>MA29501</b>	<b>Mathematics- IV</b>	3	1	-	70	30	-	-	4	-	4
2	<b>HU29515</b>	<b>Humanities, Environment &amp; Engineering Economics</b>	3	-	-	70	30	-	-	3	-	3
3	<b>BM29551</b>	<b>Analog Electronics</b>	3	1	2	70	30	40	60	4	1	5
4	<b>EC29562</b>	<b>Digital Electronics</b>	3	1	2	70	30	40	60	4	1	5
5	<b>EI29572</b>	<b>Fundamentals of Measurement</b>	3	-	2	70	30	40	60	3	1	4
6	<b>EI29998</b>	<b>Electronics Workshop</b>	-	-	4	-	-	40	60	-	2	2
		Total	15	3	10	350	150	160	240	18	5	23
Optional Subject(s)												
8	OC-II	Open Category-II	-	-	-	-	-	-	-	-	-	3
Grand Total			15	3	10	350	150	160	240	18	5	26