

**I YEAR B.Tech. (4YDC)**  
**Common To All Branches (Admission year 2018 and Onwards)**

## Semester - A

S. No.	Subject Category	Subject Code	Subject Name	Periods per Week			Credits		Max Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	BSC	MA 10001	Mathematics - I	4	1	0	4	0	70	30	0	0	100
2	BSC	PH 10006	Physics	4	1	2	4	1	70	30	20	30	150
3	ESC	CE 10003	Fundamentals of Civil Engineering & Applied Mechanics	4	0	2	3	1	70	30	20	30	150
4	ESC	ME 10149	Engineering Graphics	3	0	4	2	2	70	30	40	60	200
5	ESC	EE 10005	Fundamentals of Electrical Engineering	4	0	2	3	1	70	30	20	30	150
6	MC	CH 10200*	Environmental Science	0	1	2	-	-	0	0	100	0	100
TOTAL				19	3	12	16	5	350	150	200	150	850

Induction program of 3 week duration in July-Aug 2018

## Semester - B

S. No.	Subject Category	Subject Code	Subject Name	Periods per Week			Credits		Max Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	BSC	MA 10501	Mathematics – II	4	1	0	4	0	70	30	0	0	100
2	BSC	CH 10506	Chemistry	4	1	2	4	1	70	30	20	30	150
3	HSMC	HU 10651	Technical English	4	0	2	3	1	70	30	20	30	150
4	ESC	CO 10504	Computer Programming	4	0	2	3	1	70	30	20	30	150
5	ESC	ME 10649	Fundamentals of Mechanical Engineering	4	0	2	3	1	70	30	20	30	150
6	ESC	IP10581	Manufacturing Practices	0	1	4	0	3	0	0	40	60	100
7	MC	HU10700*	Universal Human Values	2 Hrs per week working Saturday					0	0	100	0	100
TOTAL				20	3	12	17	7	350	150	220	180	900

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

## II B.TECH.(4YDC) ELECTRONICS &amp; TELECOMMUNICATIONS ENGINEERING

**Semester: III**

S. No.	Subject Category	Subject Code	Subject Name	Periods per Week			Credits		Max Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	BSC	MA25014	Mathematics-III	4	1	-	4	-	70	30	0	0	100
2	PCC	<b>EC25016</b>	<b>Electronics Devices</b>	<b>4</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>70</b>	<b>30</b>	<b>40</b>	<b>60</b>	<b>200</b>
3	PCC	<b>EC25017</b>	<b>Signals and Systems</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>70</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>100</b>
4	PCC	EE 25004	Network Theory & Analysis	4	-	2	3	1	70	30	40	60	200
5	PCC	<b>EC25018</b>	<b>Digital System Design</b>	<b>4</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>70</b>	<b>30</b>	<b>40</b>	<b>60</b>	<b>200</b>
6	HSMC	HU25005	Economics for Engineers	4	-	-	3	-	70	30	0	0	100
			<b>Total</b>	<b>24</b>	<b>1</b>	<b>6</b>	<b>420</b>	<b>180</b>	<b>420</b>	<b>180</b>	<b>120</b>	<b>180</b>	<b>900</b>

**Semester: IV**

S. No.	Subject Category	Subject Code	Subject Name	Periods per Week			Credits		Max Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	BSC	MA25563	Mathematics-IV	4	1	-	4	-	70	30	0	0	100
2	PCC	<b>EC25564</b>	<b>Electromagnetic Waves</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>70</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>100</b>
3	PCC	<b>EC25565</b>	<b>Analog Circuits</b>	<b>4</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>70</b>	<b>30</b>	<b>40</b>	<b>60</b>	<b>200</b>
4	BSC	<b>EC25566</b>	<b>Probability Theory and Stochastic Processes</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>70</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>100</b>
5	PCC	<b>EC25567</b>	<b>Analog and Digital Communication</b>	<b>4</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>70</b>	<b>30</b>	<b>40</b>	<b>60</b>	<b>200</b>
6	ESC	<b>EC25568</b>	<b>Electronics Workshop</b>	<b>-</b>	<b>-</b>	<b>4</b>	<b>-</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>60</b>	<b>100</b>
7	HSMC	<b>HU25881</b>	<b>Values, Humanity and Professional Ethics</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>-</b>	<b>0</b>	<b>100</b>	<b>-</b>	<b>-</b>	<b>100</b>
			<b>Total</b>	<b>20</b>	<b>4</b>	<b>8</b>	<b>18</b>	<b>4</b>	<b>350</b>	<b>250</b>	<b>120</b>	<b>180</b>	<b>900</b>

<b>Internship 1</b>	<b>2-4 Weeks</b>
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## IV B.E.(4YDC) ELECTRONICS &amp; TELECOMMUNICATIONS ENGINEERING

## SEMESTER - VII

S. No.	Sub. Code	Subject	Periods per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			Th.	CW	SW	Pr.	Total
1	EC45056	Optical Communications	4	-	2	3	1	70	30	40	60	200
2	EC45005	Data Communication & Computer Networks	4	-	2	3	1	70	30	40	60	200
3	EC45007	Mobile Communication Systems	4	1	-	4	0	70	30	-	-	100
4	EC45008	Microprocessors & Microcontrollers	4	-	2	3	1	70	30	40	60	200
5		Elective -I	4		-	3	0	70	30	-	-	100
6	EC45499	Major Project Phase-I ( AB group)	-	-	4	0	2	-	-	40	60	100
7	EC45999	Major Project Phase-II ( BA group)			12	0	6			40	60	100
Total		For AB Group	20	1	10	16	5	350	150	160	240	900
		For BA Group	20	1	18	16	9	350	150	160	240	900
Optional Subject(s)												
8		Open Category-III ( Audit Only)	-	-	-	-	-	-	-	-		

## SEMESTER - VIII

S. No.	Sub. Code	Subject	Periods per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			Th.	CW	SW	Pr.	Total
1		Elective -II	4	-	-	3	-	70	30	-	-	100
2		Elective -III	4	-	2	3	1	70	30	40	60	200
3	EC45881	Industrial Training/Internship/Seminar*	-	-	-	-	8	-	-	100	-	100
4	EC45999	Major Project Phase-II ( AB group)			12		6			40	60	100
5	EC45499	Major Project Phase-I ( BA group)	-	-	4	0	2	-	-	40	60	100
Total		For AB Group	8	0	14	6	15	140	60	180	120	500
		For BA Group	8	0	6	6	11	140	60	180	120	500

## IV B.E.(4YDC) ELECTRONICS &amp; TELECOMMUNICATIONS ENGINEERING

Elective I		SEMESTER VII
S.No.	Sub. Code	Subject
1	<b>CO45201</b>	Artificial Intelligence
2	EI45223	VLSI Technology (EI4523)
3	<b>EC45202</b>	Advanced Topics in Communication
4	<b>EC45204</b>	Performance Evaluation of Networks
5	<b>EC45205</b>	Broad Band Communication
7	<b>BM45206</b>	Digital Image Processing
8	EE45203	Industrial & Power Electronics(EE4503)

Elective II		SEMESTER VIII
S.No.	Sub. Code	Subject
1	EC45678	Wireless Network(EC4578)
2	<b>EC45601</b>	Modelling and Simulation
3	EC45659	Satellite & Radar Communication Systems(EC4559)

Elective III		SEMESTER VIII
S.No.	Sub. Code	Subject
1	EC45701	RF & Microwave Circuit Design
2	<b>EC45703</b>	Embedded System Design
3	IT45702	Machine Learning