

**Shri G.S. Institute of Technology & Science**  
**Scheme of Examination**  
**Bachelor of Technology in Electronics and Telecommunication Engineering**

**Semester: I**

S. No.	Subject Code	Category	Subject Name	Hours /Week			Maximum Marks allotted				Total Marks	Credits		Total Credits
				L	T	P	Theory		Practical			T	P	
							Th.	CW	SW	Pr.				
1	MA 10001	BSC	Mathematics - I	3	1	0	70	30	0	0	100	4	0	4
2	PH 10006	BSC	Physics	3	1	2	70	30	20	30	150	4	1	5
3	CE 10003	ESC	Fundamentals of Civil Engineering & Applied Mechanics	3	0	2	70	30	20	30	150	3	1	4
4	ME 10149	ESC	Engineering Graphics	2	0	4	70	30	40	60	200	2	2	4
5	EE 10005	ESC	Fundamentals of Electrical Engineering	3	0	2	70	30	20	30	150	3	1	4
6	HU	MC	Induction Program	3 Weeks in the beginning of I Year										
			<b>Total</b>	<b>14</b>	<b>2</b>	<b>10</b>	<b>350</b>	<b>150</b>	<b>100</b>	<b>150</b>	<b>750</b>	<b>16</b>	<b>5</b>	<b>21</b>

**Semester: II**

S. No.	Subject Code	Category	Subject Name	Hours /Week			Maximum Marks allotted				Total Marks	Credits		Total Credits
				L	T	P	Theory		Practical			T	P	
							Th.	CW	SW	Pr.				
1	MA 10501	BSC	Mathematics – II	3	1	0	70	30	0	0	100	4	0	4
2	CH 10506	BSC	Chemistry	3	1	2	70	30	20	30	150	4	1	5
3	HU 10651	HSMC	Technical English	3	0	2	70	30	20	30	150	3	1	4
4	CO 10504	ESC	Computer Programming	3	0	2	70	30	20	30	150	3	1	4
5	ME 10652	ESC	Fundamentals of Mechanical Engineering	3	0	0	70	30	0	0	100	3	0	3
6	IP10581	ESC	Manufacturing Practices	0	1	4	0	0	40	60	100	0	3	3
7	HU	MC	Induction Program	3 Weeks in the beginning of I Year										
			<b>Total</b>	<b>15</b>	<b>3</b>	<b>10</b>	<b>350</b>	<b>150</b>	<b>100</b>	<b>150</b>	<b>750</b>	<b>17</b>	<b>6</b>	<b>23</b>

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**Semester: III**

S. No.	Subject Code	Category	Subject Name	Hours /Week			Maximum Marks allotted				Total Marks	Credits		Total Credits
				L	T	P	Theory		Practical			T	P	
							Th.	CW	SW	Pr.				
1	MA25014	BSC	Mathematics-III	3	1	-	70	30	0	0	100	4	-	4
2	EC25016	PCC	Electronics Devices	3	-	2	70	30	40	60	200	3	1	4
3	EC25017	PCC	Signals and Systems	3	-	-	70	30	0	0	100	3	-	3
4	EE 25004	PCC	Network Theory & Analysis	3	-	2	70	30	40	60	200	3	1	4
5	EC25018	PCC	Digital System Design	3	-	2	70	30	40	60	200	3	1	4
6	HU25005	HSMC	Economics for Engineers	3	-	-	70	30	0	0	100	3	-	3
7	CHM 2002	MC	Environmental Science	2	0	0	0	50	0	0	50	0	0	0
<b>Total</b>				<b>20</b>	<b>1</b>	<b>6</b>	<b>420</b>	<b>230</b>	<b>120</b>	<b>180</b>	<b>950</b>	<b>19</b>	<b>3</b>	<b>22</b>

**Semester: IV**

S. No.	Subject Code	Category	Subject Name	Hours /Week			Maximum Marks allotted				Total Marks	Credits		Total Credits
				L	T	P	Theory		Practical			T	P	
							Th.	CW	SW	Pr.				
1	MA25563	BSC	Mathematics-IV	3	1	-	70	30	0	0	100	4	-	4
2	EC25564	PCC	Electromagnetic Waves	3	-	-	70	30	0	0	100	3	-	3
3	EC25565	PCC	Analog Circuits	3	-	2	70	30	40	60	200	3	1	4
4	EC25566	BSC	Probability Theory and Stochastic Processes	3	-	-	70	30	0	0	100	3	-	3
5	EC25567	PCC	Analog and Digital Communication	3	-	2	70	30	40	60	200	3	1	4
6	EC25568	ESC	Electronics Workshop	-	-	4	0	0	40	60	100	-	2	2
7	HU25881	HSMC	Values, Humanities and professional ethics	-	2	-	-	100	-	-	100	2	0	2
8	HU25--	MC	Constitution of India	2	-	-	-	50	-	-	50	-	-	-
<b>Total</b>				<b>17</b>	<b>3</b>	<b>8</b>	<b>350</b>	<b>300</b>	<b>120</b>	<b>180</b>	<b>950</b>	<b>18</b>	<b>4</b>	<b>22</b>
<b>Internship 1</b>		<b>2-4 Weeks</b>												

## Shri G.S. Institute of Technology &amp; Science

## Scheme of Examination

## Bachelor of Technology in Electronics and Telecommunication Engineering

## Semester: V

S. No.	Subject Code	Category	Subject Name	Hours /Week			Maximum Marks allotted				Total Marks	Credits		Total Credits
				L	T	P	Theory		Practical			T	P	
							Th.	CW	SW	Pr.				
1	EC35008	PCC	Microprocessors and Microcontrollers	3	-	2	70	30	40	60	200	3	1	4
2	EC35009	PCC	Antenna and Wave Propagation	3	-	2	70	30	40	60	200	3	1	4
3	EC35010	PCC	VLSI Design	3	-	2	70	30	40	60	200	3	1	4
4	EC35011	PCC	Data communication	3	-	-	70	30	0	0	100	3	-	3
5	EC/CO-----	PEC-1	Program Elective (PEC-1)	3	-	2	70	30	40	60	200	3	1	4
6	EC35481		Evaluation of Internship-1	-	-	0	0	0	100	0	100	-	2	2
7	HU35	MC	Essence of Indian Knowledge Tradition	2	0	0	0	50	0	0	50	0	0	0
<b>Total</b>				<b>17</b>	<b>0</b>	<b>8</b>	<b>350</b>	<b>200</b>	<b>260</b>	<b>240</b>	<b>1050</b>	<b>15</b>	<b>6</b>	<b>21</b>

## Semester: VI

S. No.	Subject Code	Category	Subject Name	Hours /Week			Maximum Marks allotted				Total Marks	Credits		Total Credits
				L	T	P	Theory		Practical			T	P	
							Th.	CW	SW	Pr.				
1	EE35510	PCC	Control Systems	3	-	-	70	30	0	0	100	3	-	3
2	EC35511	PCC	Mobile Communication	3	-	-	70	30	0	0	100	3	-	3
3	EC35513	PCC	Computer Networks	3	-	2	70	30	40	60	200	3	1	4
4	EC35514	PCC	Applied Digital Signal Processing	3	-	2	70	30	40	60	200	3	1	4
5		PEC-2	Program Elective (PEC-2)	3	-	2	70	30	40	60	200	3	1	4
6	EC35881	ESC	Electronics design & Simulation Workshop	-	-	4	0	0	40	60	100	-	2	2
<b>Total</b>				<b>15</b>	<b>0</b>	<b>10</b>	<b>350</b>	<b>150</b>	<b>160</b>	<b>240</b>	<b>900</b>	<b>15</b>	<b>5</b>	<b>20</b>

Internship 2

2-4 Weeks

S. No.	Subject Code	PEC 1
1	CO35251	Data Structure & Operating system
2	EC35252	Electronics Measurement

S. No.	Subject Code	PEC 2
1	EC35661	Embedded Systems
2	IT35662	Intelligent systems

PEC --&gt; Can be replaced by Moocs/Swayam Course in consultation with Mentor/Faculty Advisor

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Semester-VII														
S. No.	Subject Code	Category	Subject Name	Hours /Week			Maximum Marks allotted				Total Marks	Credits		Total Credits
				L	T	P	Theory		Practical			T	P	
							Th.	CW	SW	Pr.				
1	EC45009	PCC	Wireless and Mobile Networks	3	-	-	70	30	0	0	100	3	-	3
2		PEC-3	Program Elective (PEC-3)	3	-	2	70	30	40	60	200	3	1	4
3		PEC-4	Program Elective (PEC-4)	3	-	-	70	30	0	0	100	3	-	3
4		OEC-1	Open Elective (OEC-1)	3	-	-	70	30	0	0	100	3	-	3
5	IP45010	HSMC	Industrial Engineering and	3	-	-	70	30	0	0	100	3	-	3
6	EC45481		Evaluation of Internship-2	-	-	4	0	0	100	0	100	-	2	2
7	EC45498		Major Project Phase - I (AB group)	-	-	8	0	0	40	60	100	-	4	4
8	EC45998		Major Project Phase -II (BA group)	-	-	8	0	0	40	60	100	-	4	4
<b>Total</b>			<b>For AB Group</b>	<b>15</b>	<b>0</b>	<b>14</b>	<b>350</b>	<b>150</b>	<b>140</b>	<b>60</b>	<b>700</b>	<b>15</b>	<b>7</b>	<b>22</b>
			<b>For BA Group</b>	<b>15</b>	<b>0</b>	<b>14</b>	<b>350</b>	<b>150</b>	<b>140</b>	<b>60</b>	<b>700</b>	<b>15</b>	<b>7</b>	<b>22</b>
<b>Internship 3</b>		<b>4-8 Weeks</b>												
Semester- VIII														
S. No.	Subject Code	Category	Subject Name	Hours /Week			Maximum Marks allotted				Total Marks	Credits		Total Credits
				L	T	P	Theory		Practical			T	P	
							Th.	CW	SW	Pr.				
1		PEC-5	Program Elective (PEC-5)	3	0	0	70	30	0	0	100	3	0	3
2		OEC-2	Open Elective (OEC-2)	3	0	0	70	30	0	0	100	3	0	3
3	EC45882		Evaluation of Internship-3	0	2	4	0	0	100	0	100	0	4	4
4	EC45998	PROJ	Major Project Stage II (AB GROUP)	0	0	8	0	0	40	60	100	0	4	4
5	EC45498	PROJ	Major Project Stage I (BA GROUP)	0	0	8	0	0	40	60	100	0	4	4
<b>Total</b>			<b>For AB Group</b>	<b>6</b>	<b>0</b>	<b>12</b>	<b>140</b>	<b>60</b>	<b>140</b>	<b>60</b>	<b>400</b>	<b>6</b>	<b>8</b>	<b>14</b>
			<b>For BA Group</b>	<b>6</b>	<b>0</b>	<b>12</b>	<b>140</b>	<b>60</b>	<b>140</b>	<b>60</b>	<b>400</b>	<b>6</b>	<b>8</b>	<b>14</b>

\*OEC/PEC --> Can be replaced by Moocs/Swayam Course in consultation with mentor

S. No.	Subject Code	PEC 3	S. No.	Subject Code	PEC 4
1	EC45207	Microwave Device and Circuits	1	CO45251	Data Science
2	EC45-----	Advance Antenna Design	2	EI45252	VLSI Technology
3	EC45208	Optical Communication	3		Moocs/ Swayam Online Courses
S. No.	Subject Code	PEC 5			
1	EE45-----	Industrial and Power Electronics			
2	EC45-----	Information theory and coding			
3	EC45602	Optical Networks			
4		Mooc/ Swayam Online Courses			

\*OEC/PEC --> Can be replaced by Moocs/Swayam Course in consultation with mentor

S. No.	Subject Code	OEC 1
1	EC45301	Internet of Things
2	EC45302	Adadvanced Digital Signal Processing
3	BM45---	Digital Image Processing
4		Moocs/ Swayam Online Courses
S. No.	Subject Code	OEC 2
1	EC45759	Satellite and Radar Communication
2	EC45-----	Game Theory in Wireless Communication
3	EC45-----	Introduction to Cryptography
4		Moocs/ Swayam Online Courses