

**INSTITUTE OF TECHNOLOGY**  
**GURU GHASIDAS CENTRAL UNIVERSITY BILASPUR**

**SCHEME OF B.Tech. III<sup>rd</sup> SEMESTER**  
**ELECTRONICS & COMMUNICATION ENGINEERING**

S. No:	Course Code	Subject	Periods			Evaluation Scheme			Credit
			L	T	P	IA	ESE	Total	
<b>THEORY</b>									
1.	ECE2101	C & Data Structure	3	1		40	60	100	4
2.	ECE2102	Electronic Devices	3	1		40	60	100	4
3.	ECE2103	Mathematics – III	3	1		40	60	100	4
4.	ECE2104	Network Theory	3	1		40	60	100	4
5.	ECE2105	Switching & Pulse Theory	3	1		40	60	100	4
<b>PRACTICAL</b>									
6.	ECE2106	C & Data Structure Lab			3	30	20	50	2
7.	ECE2107	Electronic Devices Lab			3	30	20	50	2
8.	ECE2108	Switching & Pulse Theory Lab			3	30	20	50	2
<b>TOTAL</b>			<b>15</b>	<b>5</b>	<b>9</b>	<b>290</b>	<b>360</b>	<b>650</b>	<b>26</b>

L: Lecture, T: Tutorial, P: Practical, IA: Internal Assessment, ESE: End Semester Exam,

**SCHEME OF B.Tech. IV<sup>th</sup> SEMESTER**  
**ELECTRONICS & COMMUNICATION ENGINEERING**

S. No:	Course Code	Subject	Periods			Evaluation Scheme			Credit
			L	T	P	IA	ESE	Total	
<b>THEORY</b>									
1.	ECE2201	Numerical Analysis	3	1		40	60	100	4
2.	ECE2202	Analog Circuits	3	1		40	60	100	4
3.	ECE2203	Electronic Measurement & Instrumentation	3	1		40	60	100	4
4.	ECE2204	Electronics Engineering Material	3	1		40	60	100	4
5.	ECE2205	Signals & System	3	1		40	60	100	4
<b>PRACTICAL</b>									
7.	ECE2206	Analog Circuits Lab			3	30	20	50	2
8.	ECE2207	Electronic Measurement & Instrumentation Lab			3	30	20	50	2
9.	ECE2208	Signal & System Lab			3	30	20	50	2
<b>TOTAL</b>			<b>15</b>	<b>5</b>	<b>9</b>	<b>290</b>	<b>360</b>	<b>650</b>	<b>26</b>

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**SCHEME OF B.Tech. V<sup>th</sup> SEMESTER  
ELECTRONICS & COMMUNICATION ENGINEERING**

S. No:	Course Code	Subject	Periods			Evaluation Scheme			Credit
			L	T	P	IA	ESE	Total	
<b>THEORY</b>									
1.	ECE3101	LIC & its Application	3	1		40	60	100	4
2.	ECE3102	Electromagnetic	3	1		40	60	100	4
3.	ECE3103	Microprocessors	3	1		40	60	100	4
4.	ECE3104	Automatic Control System	3	1		40	60	100	4
5.	ECE3105	Communication System – I	3	1		40	60	100	4
<b>PRACTICAL</b>									
6.	ECE3106	LIC & its Application Lab			3	30	20	50	2
7.	ECE3107	Microprocessors Lab			3	30	20	50	2
8.	ECE3108	Communication System – I Lab			3	30	20	50	2
<b>TOTAL</b>			<b>15</b>	<b>5</b>	<b>9</b>	<b>290</b>	<b>360</b>	<b>650</b>	<b>26</b>

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**SCHEME OF B.Tech. VI<sup>th</sup> SEMESTER  
ELECTRONICS & COMMUNICATION ENGINEERING**

S. No:	Course Code	Subject	Periods			Evaluation Scheme			Credit
			L	T	P	IA	ESE	Total	
<b>THEORY</b>									
1.	ECE3201	Digital Signal Processing	3	1		40	60	100	4
2.	ECE3202	CO & Operating System	3	1		40	60	100	4
3.	ECE3203	Communication System – II	3	1		40	60	100	4
4.	ECE3204	Antenna & Wave Propagation	3	1		40	60	100	4
5.	ECE3205	Digital Design using VHDL	3	1		40	60	100	4
<b>PRACTICAL</b>									
6.	ECE3206	Digital Signal Processing Lab			3	30	20	50	2
7.	ECE3207	Communication System -II Lab			3	30	20	50	2
8.	ECE3208	Digital Design using VHDL Lab			3	30	20	50	2
<b>TOTAL</b>			<b>15</b>	<b>5</b>	<b>9</b>	<b>290</b>	<b>360</b>	<b>650</b>	<b>26</b>

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**SCHEME OF B.Tech. VII<sup>th</sup> SEMESTER  
ELECTRONICS & COMMUNICATION ENGINEERING**

S. No:	Course Code	Subject	Periods			Evaluation Scheme					Credit
			L	T	P	Sessional Exam.			ESE	Sub Total	
<b>THEORY</b>						<b>IA</b>	<b>MSE</b>	<b>Total</b>			
1.	ECE4101	Wireless & Mobile Communication	3	1		20	20	40	60	100	4
2.	ECE4102	VLSI Design	3	1		20	20	40	60	100	4
3.	ECE4103	Industrial Electronics	3	1		20	20	40	60	100	4
4.	ECE4104	Satellite Communication	3	1		20	20	40	60	100	4
5.	ECE4121	Elective – I	3	1		20	20	40	60	100	4
<b>PRACTICAL</b>											
6.	ECE7P1	Project			3	30	-	30	20	50	2
7.	ECE7P2	VLSI Design Lab			3	30	-	30	20	50	2
8.	ECE7P3	Circuit Simulation Lab			3	30	-	30	20	50	2
9.		Industrial Training								50	2
<b>TOTAL</b>			<b>15</b>	<b>5</b>	<b>9</b>	<b>190</b>	<b>100</b>	<b>290</b>	<b>360</b>	<b>700</b>	<b>28</b>

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**SCHEME OF B.Tech. VIII<sup>th</sup> SEMESTER  
ELECTRONICS & COMMUNICATION ENGINEERING**

S. No:	Course Code	Subject	Periods			Evaluation Scheme					Credit
			L	T	P	Sessional Exam.			ESE	Sub Total	
<b>THEORY</b>						<b>IA</b>	<b>MSE</b>	<b>Total</b>			
1.	ECE8Th1	Microwave Communication	3	1		20	20	40	60	100	4
2.	ECE8Th2	Principle of Management	3	1		20	20	40	60	100	4
3.	ECE8Th3	Optical Communication	3	1		20	20	40	60	100	4
4.	ECE8Th4	Elective – II	3	1		20	20	40	60	100	4
<b>PRACTICAL</b>											
5.	ECE8P1	Major Project			8	50	-	50	50	100	4
6.	ECE8P2	Microwave Communication Lab			3	30	-	30	20	50	2
7.	ECE8P2	Optical Communication Lab			3	30	-	30	20	50	2
<b>TOTAL</b>			<b>14</b>	<b>4</b>	<b>14</b>	<b>215</b>	<b>80</b>	<b>295</b>	<b>355</b>	<b>600</b>	<b>24</b>

L: Lecture, T: Tutorial, P: Practical, IA: Internal Assessment, MSE: Mid Semester Exam, ESE: End Semester Exam,