

**BE (Electronics and Telecommunications Engineering) Curriculum**

Minimum Credits to be Earned: 165

Semester I								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
<b>THEORY</b>								
1	23SEN101	Heritage of Tamils	HS	1	1	0	0	1
2	23SEN103	Technical English - I	HS	4	3	1	0	4
3	23SMA101	Matrices and Calculus	BS	4	3	1	0	4
4	23SPH113	Physics for Electrical Sciences	BS	3	3	0	0	3
5	23EER101	Electric Circuits	ES	3	2	1	0	3
6	23CSR102	C Programming	ES	3	3	0	0	3
<b>LABORATORY</b>								
7	23CSR104	C Programming Laboratory	ES	2	0	0	2	1
8	23EER105	Electric Circuits Laboratory	ES	2	0	0	2	1
<b>TOTAL</b>				<b>22</b>	<b>15</b>	<b>3</b>	<b>4</b>	<b>20</b>

Semester II								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
<b>THEORY</b>								
1	23SEN202	Tamils and Technology	HS	1	1	0	0	1
2	23SEN205	Technical English - II	HS	4	4	0	0	4
3	23SMA204	Transforms and its Applications	BS	4	3	1	0	4
4	23SCH115	Environmental Science for Engineers	BS	3	3	0	0	3
5	23ITR201	Fundamentals of Web Design	ES	3	3	0	0	3
6	23CSR203	Data Structures and Algorithms	ES	3	3	0	0	3
<b>LABORATORY</b>								
7	23SEN217	Communication Skills Laboratory	HS	2	0	0	2	1
8	23SPH121	Physical Sciences Laboratory	BS	2	0	0	2	1
9	23ITR203	Web Design Laboratory	ES	2	0	0	2	1
10	23CSR205	Data Structures and Algorithms Laboratory	ES	2	0	0	2	1
<b>TOTAL</b>				<b>26</b>	<b>17</b>	<b>1</b>	<b>8</b>	<b>22</b>

Semester III								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
<b>THEORY</b>								
1	23SMA307	Numerical Methods	BS	4	3	1	0	4
2	23ECR301	Electron Devices and Circuits	ES	3	2	1	0	3
3	23EER301	Digital Electronics	PC	3	2	1	0	3
4	23ETR301	Signals and Systems	PC	3	2	1	0	3
5	23XXPXXX	Professional Elective – I	PE	3	3	0	0	3
6	23XXPXXX	Professional Elective – II	PE	3	3	0	0	3
7	23XXPXXX	Professional Elective – III	PE	3	3	0	0	3
8	23MXC301	Indian Constitution	MC	1	1	0	0	-
<b>LABORATORY</b>								
9	23ECR304	Electron Devices and Circuits Laboratory	ES	2	0	0	2	1
10	23ECR311	Digital Electronics Laboratory	ES	2	0	0	2	1
11	23EXC301	Life Skills – I	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>29</b>	<b>19</b>	<b>4</b>	<b>6</b>	<b>25</b>

Semester IV								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
<b>THEORY</b>								
1	23SMA409	Probability and Statistics	BS	4	3	1	0	4
2	23ECR401	Microprocessors and Microcontrollers	PC	3	2	1	0	3
3	23ETR402	Fields and Antennas	PC	4	3	1	0	4
4	23XXPXXX	Professional Elective – IV	PE	3	3	0	0	3
5	23XXPXXX	Professional Elective – V	PE	3	3	0	0	3
6	23XXOXXX	Open Elective – I	OE	3	3	0	0	3
7	23EXC411	Design Thinking	EEC	1	1	0	0	1
8	23MXC402	Essence of Indian Traditional Knowledge	MC	1	1	0	0	-
<b>LABORATORY</b>								
9	23ECR412	Microprocessors and Microcontrollers Laboratory	PC	2	0	0	2	1
10	23EXC402	Life Skills – II	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>26</b>	<b>19</b>	<b>3</b>	<b>4</b>	<b>23</b>

Semester V								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
<b>THEORY</b>								
1	23CYR502	Network Architecture and Security	PC	3	3	0	0	3
2	23ECR503	Control Systems	PC	4	3	1	0	4
3	23ETR503	Digital Signal Processing	PC	3	2	1	0	3
4	23ETR504	Transmission Lines and Waveguides	PC	4	3	1	0	4
5	23ECR504	Embedded Systems	PC	3	3	0	0	3
6	23XXPXXX	Professional Elective – VI	PE	3	3	0	0	3
<b>LABORATORY</b>								
7	23ETR507	Signal Processing Laboratory	PC	2	0	0	2	1
8	23ECR513	Embedded Systems Laboratory	PC	2	0	0	2	1
9	23CYR511	Network Architecture and Security Laboratory	PC	2	0	0	2	1
10	23EXC503	Life Skills – III	EEC	2	0	0	2	1
11	23EXCXXX	Internship – I/Mini Project - I	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>30</b>	<b>17</b>	<b>3</b>	<b>10</b>	<b>25</b>

Semester VI								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
<b>THEORY</b>								
1	23ETR605	Very Large Scale Integration Design	PC	3	3	0	0	3
2	23ECR606	Linear Integrated Circuits	PC	3	2	1	0	3
3	23ECR607	Analog and Digital Communication	PC	3	3	0	0	3
4	23XXOXXX	Open Elective – II	OE	3	3	0	0	3
5	23XXOXXX	Open Elective – III	OE	3	3	0	0	3
6	23XXOXXX	Open Elective – IV	OE	3	3	0	0	3
<b>LABORATORY</b>								
7	23ETR605	Very Large Scale Integration Design Laboratory	PC	2	0	0	2	1
8	23ECR614	Linear Integrated Circuits Laboratory	PC	2	0	0	2	1
9	23ECR615	Analog and Digital Communication Laboratory	PC	2	0	0	2	1
10	23EXCXXX	Internship – II/Mini Project - II	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>26</b>	<b>17</b>	<b>1</b>	<b>8</b>	<b>22</b>

Semester VII								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
<b>THEORY</b>								
1	23SGE713	Principles of Management and Engineering Ethics	HS	3	3	0	0	3
2	23ETR706	Telecommunication Switching Techniques	PC	3	3	0	0	3
3	23ECR708	Microwave and Optical Communication	PC	3	3	0	0	3
4	23ECR709	Wireless Communication	PC	3	3	0	0	3
5	23XXOXXX	Open Elective – V	OE	3	3	0	0	3
6	23XXOXXX	Open Elective – VI	OE	3	3	0	0	3
<b>LABORATORY</b>								
7	23ECR716	Microwave and Optical Communication Laboratory	PC	2	0	0	2	1
8	23EXC709	Project Work - Phase I	EEC	4	0	0	4	2
<b>TOTAL</b>				<b>24</b>	<b>18</b>	<b>0</b>	<b>6</b>	<b>21</b>

Semester VIII								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
<b>THEORY</b>								
1	23EXC810	Project Work - Phase II	EEC	20	0	0	20	10
<b>TOTAL</b>				<b>20</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>10</b>

<b>Total Credits</b>	<b>168</b>
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