

Shree Rahul Education Society's  
**SHREE L.R. TIWARI COLLEGE OF ENGINEERING**

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**Programme Structure of B.E. in Electronics Engineering, University of Mumbai (As per Semester Based Credit and Grading System)(REV-2016)**

Semester	Sr. No.	Name of the Subject	Teaching Scheme (Contact Hours)		Examination Scheme							Credits Assigned						
					Theory Marks			End Sem Exam	Exam Duration (Hours)	TW (Marks)	PR/OR (Marks)	Total (marks)	Theory (points)	Practical (point)	Tutorial (points)	Total (points)		
					TH	PR	TU.										Test-1	Test-2
I	1	Applied Mathematics-I	4	-	1	20	20	20	80	3	25	-	125	4	-	1	5	
	2	Applied Physics-I	3	1	-	15	15	15	60	2	25	-	100	3	0.5	-	3.5	
	3	Applied Chemistry -I	3	1	-	15	15	15	60	2	25	25	100	3	0.5	-	3.5	
	4	Engineering Mechanics	5	2	-	20	20	20	80	3	25	25	150	5	1	-	6	
	5	Basic Electrical&Electronics Engg.	4	2	-	20	20	20	80	3	25	-	125	4	1	-	5	
	6	Environmental studies	2	-	-	15	15	15	60	2	0	-	75	2	-	-	2	
	7	Basic Workshop Practice-I	-	4	-	-	-	-	-	-	50	-	50	-	2	-	2	
		<b>Total --&gt;</b>	<b>21</b>	<b>10</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>105</b>	<b>420</b>	<b>-</b>	<b>175</b>	<b>50</b>	<b>750</b>	<b>21</b>	<b>5</b>	<b>1</b>	<b>27</b>
II	1	Applied Mathematics-II	4	0	1	20	20	20	80	20	25	-	125	4	-	1	5	
	2	Applied Physics-II	3	1	0	15	15	15	60	15	25	-	100	3	0.5	-	3.5	
	3	Applied Chemistry -II	3	1	0	15	15	15	60	15	25	-	100	3	0.5	-	3.5	
	4	Engineering Drawing	3	4	0	15	15	15	60	15	25	50	150	3	2	-	5	
	5	Structure Programming Approach	4	2	0	20	20	20	80	20	25	25	150	4	1	-	5	
	6	Communication Skill	2	2	0	10	10	10	40	10	25	0	75	2	1	-	3	
	7	Basic Workshop Practice-II	0	4	0	-	-	-	-	-	50	0	50	-	2	-	2	
		<b>Total --&gt;</b>	<b>19</b>	<b>14</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>95</b>	<b>380</b>	<b>95</b>	<b>200</b>	<b>75</b>	<b>750</b>	<b>19</b>	<b>7</b>	<b>1</b>	<b>27</b>
III	1	Applied Mathematics III*	4	-	* 1	20	20	20	80	3	25	-	125	4	-	1	5	
	2	Electronic Devices and circuits I	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	3	Digital Circuits Design	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	4	Electrical Network Analysis andSynthesis	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	5	Electronic Instruments andMeasurements	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	6	Electronic Devices and Circuits I Laboratory	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1	
	7	Digital Circuit Design Laboratory	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1	
	8	Electrical Network andMeasurement Laborator	-	2	-	-	-	-	-	-	25	-	25	-	1	-	1	
	9	Object Oriented ProgrammingMethodology Laboratory	-	2+2**	-	-	-	-	-	-	25	25	50	-	2	-	2	
		<b>Total --&gt;</b>	<b>20</b>	<b>10</b>	<b>1</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>400</b>	<b>15</b>	<b>125</b>	<b>75</b>	<b>700</b>	<b>20</b>	<b>5</b>	<b>1</b>	<b>26</b>	
IV	1	Applied Mathematics IV	4	-	1	20	20	20	80	3	25	-	125	4	-	1#	5	
	2	Electronic Devices and Circuits II	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	3	Microprocessors and Applications	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	4	Digital System Design	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	5	Principles of CommunicationEngineering	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	6	Linear Control Systems	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	7	Electronic Devices and Circuits III Laboratory	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1	
	8	Microprocessors and Applications Laboratory	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1	
	9	Digital System Design Laboratory	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1	
	10	Principles of CommunicationEngineering Laborator	-	2	-	-	-	-	-	-	25	-	50	-	1	-	1	
		<b>Total --&gt;</b>	<b>24</b>	<b>8</b>	<b>1</b>	<b>120</b>	<b>120</b>	<b>120</b>	<b>480</b>	<b>18</b>	<b>125</b>	<b>75</b>	<b>800</b>	<b>24</b>	<b>4</b>	<b>1</b>	<b>29</b>	
V	1	Microcontrollers and Applications	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	2	Digital Communication	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	3	Engineering Electromagnetics	4	-	* 1	20	20	20	80	3	25	-	125	4	-	1	5	
	4	Design with Linear IntegratedCircuit	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	5	Department Level optional courses I	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	6	Micro-controllers and Applications Laboratory	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1	
	7	Digital Communication Laboratory	-	2	-	-	-	-	-	-	25	-	25	-	1	-	1	
	8	Design with Linear IntegratedCircuits Laboratory	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1	
	9	Business Communication & Ethics	-	2+2	-	-	-	-	-	-	50	-	50	-	2	-	2	
	10	Department Level optional course-II Laboratory	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1	
		<b>Total --&gt;</b>	<b>20</b>	<b>12</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>80</b>	<b>400</b>	<b>-</b>	<b>175</b>	<b>75</b>	<b>750</b>	<b>20</b>	<b>6</b>	<b>1</b>	<b>27</b>
VI	1	Embedded System and RTOS	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	2	Computer CommunicationNetwork	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	3	VLSI Design	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	4	Signals and systems	4	-	*1	20	20	20	80	3	25	25	150	4	-	1	5	
	5	Department LevelOptional courses II	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4	
	6	Embedded System andRTOS Laboratory	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1	
	7	Computer CommunicationNetwork Laboratory	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1	
	8	VLSI Design Laboratory	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1	
	9	Department LevelOptional courses III Laboratory	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1	
			<b>Total --&gt;</b>	<b>20</b>	<b>8</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>80</b>	<b>400</b>	<b>-</b>	<b>125</b>	<b>125</b>	<b>750</b>	<b>22</b>	<b>4</b>	<b>1</b>

VII	1	Instrumentation System Design	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4
	2	Power Electronics	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4
	3	Digital signal processing	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4
	4	Department Level Optional courses III*	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4
	5	Institute Level Optional Subject	3	-	-	20	20	20	80	3	-	-	100	3	-	-	3
	6	Instrumentation System Design Lab.	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1
	7	Power Electronics Lab.	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1
	8	Digital signal processing Lab.	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1
	9	Project-I	-	6	-	-	-	-	-	-	50	50	100	-	3	-	3
	10	Dept. Level Optional courses III Lab.	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1
<b>Total --&gt;</b>			<b>19</b>	<b>14</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>80</b>	<b>400</b>	<b>-</b>	<b>150</b>	<b>150</b>	<b>800</b>	<b>19</b>	<b>7</b>	<b>-</b>	<b>26</b>
VIII	1	Internet of Things	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4
	2	Analog and Mixed VLSI Design	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4
	3	Department Level Optional course IV	4	-	-	20	20	20	80	3	-	-	100	4	-	-	4
	4	Institute Level Optional course II#	3	-	-	20	20	20	80	3	-	-	100	3	-	-	3
	5	Internet of Things Lab.	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1
	6	Analog and Mixed VLSI Design Lab.	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1
	7	Project-II	-	12	-	-	-	-	-	-	100	50	150	-	6	-	6
	8	Department Level Optional Courses IV Lab.	-	2	-	-	-	-	-	-	25	25	50	-	1	-	1
<b>Total --&gt;</b>			<b>15</b>	<b>12</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>80</b>	<b>320</b>	<b>-</b>	<b>175</b>	<b>125</b>	<b>700</b>	<b>15</b>	<b>9</b>	<b>-</b>	<b>24</b>