

### III SEMESTER

Sl. No	Subject Code	Title		Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	14XXX31	Engineering Mathematics – III	Basic Science	04		03	20	80	100	4
2	14XX32	Analog Electronics	Core	04		03	20	80	100	4
3	14XX33	Digital Electronics	Core	04		03	20	80	100	4
4	14XX33	Electronic Instrumentation	Core	04		03	20	80	100	4
5	14XX35	Microprocessor and Microcontrollers	Foundation Course	04		03	20	80	100	4
6	14XX36X	Elective Subject	Elective	03		03	20	80	100	3
7	14XXL37	Analog electronics Lab	Lab		3L + 1I	03	20	80	100	2
8	14XXL38	Digital Electronics & Interfacing Lab	Lab		3L + 1I	03	20	80	100	2
<b>TOTAL</b>				<b>23</b>	<b>08</b>	<b>24</b>	<b>160</b>	<b>640</b>	<b>800</b>	<b>27</b>

#### Elective

14XX361	OOPs with C++	14XX363	Computer Organization
14XX362	Operating Systems	14XX364	Design and Analysis of Algorithms

- 1. Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.
- 2 a. Foundation Course:** The courses based upon the content that leads to Knowledge enhancement.
  - b. Foundation Elective:** Elective Foundation courses are value-based and are aimed at man-making education
- 3. Elective:** This is the course, which can be chosen from the pool of papers. It may be supportive to the discipline/providing extended scope/Enabling an Exposure to some other discipline/domain/nurturing student proficiency skills.

#### IV SEMESTER

Sl. No	Subject Code	Title	Teaching Dept.	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	14XXX 41	Engineering Mathematics – IV	Basic Science	04		03	20	80	100	4
2	14XX 42	Linear Integrated Circuits	Core	04		03	20	80	100	4
3	14XX43	Network Analysis and Control Systems	Core	04		03	20	80	100	4
4	14XX 44	Microcontrollers for Embedded systems	Foundation Course	04		03	20	80	100	3
5	14XX45	Engineering Electromagnetics	Foundation Course	04		03	20	80	100	3
6	14XX46X	Elective Subject	Elective	03		03	20	80	100	3
7	14XXL47	LIC Lab	Lab		3L + 1I	03	20	80	100	2
8	14XXL48	Microcontrollers for Embedded systems lab	Lab		3L + 1I	03	20	80	100	2
<b>TOTAL</b>				<b>23</b>	<b>06</b>	<b>24</b>	<b>160</b>	<b>640</b>	<b>800</b>	<b>27</b>

Elective			
14XX461	Virtual Instrumentation	14XX463	Business Communication
14XX462	Electronics Engineering Materials	14XX464	MEMS

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**2a. Foundation Course:** The courses based upon the content that leads to Knowledge enhancement.

**2b. Foundation Elective:** Elective Foundation courses are value-based and are aimed at man-making education

**3. Elective:** This is the course, which can be chosen from the pool of papers. It may be supportive to the discipline/Providing extended scope/ Enabling an Exposure to some other discipline/domain /nurturing student proficiency skills.