

# STRUCTURE FOR M.SC. (ECI)



**(Effective from June 2010)**

**DEPARTMENT OF ELECTRONICS**

**SAURASHTRA UNIVERSITY**

**RAJKOT 360 005**

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M.Sc. (ECI)  
Department of Electronics  
Saurashtra University, Rajkot.

**SAURASHTRA UNIVERSITY**  
**DEPARTMENT OF ELECTRONICS**  
**CBCS STRUCTURE FOR M.Sc. (ECI)**

**M.Sc. (ECI)**

Master of Science in Electronics : Five Year (Ten Semesters)

Total Credits of the Course : 240



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## SEMESTER – I

Sr. No.	Paper No.	Title of the Course	Total Marks Ext+Int=Total (70+30=100)	Passing Standard Ext+Int=Total (28+12=40)	Total Teaching Hours	Exam. Hrs.	Course Credits
1.	1	ECI Mathematics – I	70+30=100	28+12=40	15x4=60	03	04
2.	2	Basic Physical Electronics	70+30=100	28+12=40	15x4=60	03	04
3.	3	Computer Concepts: Hardware and Software	70+30=100	28+12=40	15x4=60	03	04
4.	4	Communication Skills and Technical Writing	70+30=100	28+12=40	15x4=60	03	04
5.		Practical's*	200	20+20+20+20=80	15x15=225	3x4=12	08

\*Practical's = 50X3=150 marks core subject experiments + 50 marks project;

<u>INTERNAL</u>	<u>MARKS</u>
ATTENDANCE	05
ASSIGNMENT	05
SEMINAR	10
TEST	10



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## SEMESTER – II

Sr. No.	Paper No.	Title of the Course	Total Marks Ext+Int=Total (70+30=100)	Passing Standard Ext+Int=Total (28+12=40)	Total Teaching Hours	Exam. Hrs.	Course Credits
1.	5	ECI Mathematics – II	70+30=100	28+12=40	15x4=60	03	04
2.	6	Basic Circuit Analysis	70+30=100	28+12=40	15x4=60	03	04
3.	7	Introduction of Digital Electronics	70+30=100	28+12=40	15x4=60	03	04
4.	8	Electronic Devices and Circuits	70+30=100	28+12=40	15x4=60	03	04
5.		Practical's*	200	20+20+20+20=80	15x15=225	3.5x4=14	08

\*Practical's = 50X3=150 marks core subject experiments + 50 marks project;

<u>INTERNAL</u>	<u>MARKS</u>
ATTENDANCE	05
ASSIGNMENT	05
SEMINAR	10
TEST	10



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## SEMESTER – III

Sr. No.	Paper No.	Title of the Course	Total Marks Ext+Int=Total (70+30=100)	Passing Standard Ext+Int=Total (28+12=40)	Total Teaching Hours	Exam. Hrs.	Course Credits
1.	9	Circuits and Networks	70+30=100	28+12=40	15x4=60	03	04
2.	10	Digital Electronics	70+30=100	28+12=40	15x4=60	03	04
3.	11	Amplifier and Oscillator Circuits	70+30=100	28+12=40	15x4=60	03	04
4.	12	Introduction to PSPICE	70+30=100	28+12=40	15x4=60	03	04
5.		Practical's*	200	20+20+20+20=80	15x15=225	3.5x4=14	08

\*Practical's = 50X3=150 marks core subject experiments + 50 marks project;

<u>INTERNAL</u>	<u>MARKS</u>
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SEMINAR	10
TEST	10



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## SEMESTER – IV

Sr. No.	Paper No.	Title of the Course	Total Marks Ext+Int=Total (70+30=100)	Passing Standard Ext+Int=Total (28+12=40)	Total Teaching Hours	Exam. Hrs.	Course Credits
1.	13	Power Electronics	70+30=100	28+12=40	15x4=60	03	04
2.	14	Fundamental of Communication Electronics	70+30=100	28+12=40	15x4=60	03	04
3.	15	Op-amp and its Applications	70+30=100	28+12=40	15x4=60	03	04
4.	16	Basic Instrumentation	70+30=100	28+12=40	15x4=60	03	04
5.		Practical's*	200	20+20+20+20=80	15x15=225	3.5x4=14	08

\*Practical's = 50X3=150 marks core subject experiments + 50 marks project;

<u>INTERNAL</u>	<u>MARKS</u>
ATTENDANCE	05
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