

# FIRST YEAR ENGINEERING COMMON TO ALL BRANCHES

## SCHEME OF INSTRUCTION AND EXAMINATION (RC 2016-17)

### SEMESTER - I

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P#	Th Duration (Hrs)	Marks					Total
						Th	S	TW	P	O	
FE 1.1	Engineering Mathematics - I	4	--	--	3	100	25	--	--	--	<b>125</b>
FE 1.2	Applied Science (Physics / Chemistry)	3	--	2	3	100	25	25	--	--	<b>150</b>
FE 1.3	Engineering Mechanics	3	--	2	3	100	25	25	--	--	<b>150</b>
FE 1.4	Fundamentals of Electrical Engineering	3	--	2	3	100	25	--	--	--	<b>125</b>
FE 1.5	Fundamentals of Computer Engineering	3	--	2	3	100	25	--	--	--	<b>125</b>
FE 1.6	Technical English	3	--	--	3	100	25	--	--	--	<b>125</b>
FE 1.7	Workshop Practice – I*	--	--	4	--	--	--	50	--	--	<b>50</b>
<b>TOTAL</b>		<b>19</b>	<b>--</b>	<b>12</b>	<b>--</b>	<b>600</b>	<b>150</b>	<b>100</b>	<b>--</b>	<b>--</b>	<b>850</b>

\* Term Work in Workshop Practice – I is a separate Head of Passing.

# A candidate is considered to have successfully fulfilled the requirement of a semester, provided he/ she submits to the department a certified journal reporting the experiments conducted during the semester.

### LEGEND

Abbreviation	Description
L	Lecture
T	Tutorial
P	Practical
Th	Theory
S	Sessional
TW	Term Work
O	Oral

# FIRST YEAR ENGINEERING COMMON TO ALL BRANCHES

## SCHEME OF INSTRUCTION AND EXAMINATION

(RC 2016-17)

### SEMESTER - II

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P#	Th Duration (Hrs)	Marks					
						Th	S	TW	P	O	Total
FE 2.1	Engineering Mathematics - II	4	--	--	3	100	25	--	--	--	<b>125</b>
FE 2.2	Applied Science (Physics / Chemistry)	3	--	2	3	100	25	25	--	--	<b>150</b>
FE 2.3	Programming Languages	3	--	2	3	100	25	--	--	--	<b>125</b>
FE 2.4	Fundamentals of Electronics and Telecommunication Engineering	3	--	2	3	100	25	--	--	--	<b>125</b>
FE 2.5	Environmental Sciences and Social Sciences	3	--	--	3	100	25	--	--	--	<b>125</b>
FE 2.6	Engineering Graphics	2	--	4	4	100	25	25	--	--	<b>150</b>
FE 2.7	Workshop Practice - II*	--	--	4	--	--	--	50	--	--	<b>50</b>
<b>TOTAL</b>		<b>18</b>	<b>--</b>	<b>14</b>	<b>--</b>	<b>600</b>	<b>150</b>	<b>100</b>	<b>--</b>	<b>--</b>	<b>850</b>

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## SECOND YEAR: COMPUTER ENGINEERING

### SCHEME OF INSTRUCTION AND EXAMINATION

(RC 2016-17)

### SEMESTER -III

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P#	Th Duration (Hrs)	Marks					Total
						Th	S	TW	P	O	
COMP 3.1	Applied Mathematics-III	3	1	--	3	100	25	--	--	--	<b>125</b>
COMP 3.2	Data Structures and Algorithms-I	3	1	2	3	100	25	--	25	--	<b>150</b>
COMP 3.3	Economics and Organizational Behaviour	3	--	--	3	100	25	--	--	--	<b>125</b>
COMP 3.4	Object-Oriented Programming using C++	3	1	2	3	100	25	--	25	--	<b>150</b>
COMP 3.5	Logic Design	3	1	2	3	100	25	--	--	25	<b>150</b>
COMP 3.6	Software Engineering	3	1	2	3	100	25	25	--	--	<b>150</b>
<b>TOTAL</b>		<b>18</b>	<b>05</b>	<b>08</b>	<b>--</b>	<b>600</b>	<b>150</b>	<b>25</b>	<b>50</b>	<b>25</b>	<b>850</b>

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## SECOND YEAR: COMPUTER ENGINEERING

### SCHEME OF INSTRUCTION AND EXAMINATION

(RC 2016-17)

### SEMESTER -IV

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P#	Th Duration (Hrs)	Marks					
						Th	S	TW	P	O	Total
COMP 4.1	Discrete Mathematics	3	1	--	3	100	25	--	--	--	<b>125</b>
COMP 4.2	Computer Organization	3	1	2	3	100	25	25	--	--	<b>150</b>
COMP 4.3	Microprocessors and Interfacing	3	1	2	3	100	25	--	25	--	<b>150</b>
COMP 4.4	Data Structures and Algorithms-II	3	1	2	3	100	25	--	--	25	<b>150</b>
COMP 4.5	Signals and Systems	3	1	--	3	100	25	--	--	--	<b>125</b>
COMP 4.6	Java Programming	3	1	2	3	100	25	--	25	--	<b>150</b>
<b>TOTAL</b>		<b>18</b>	<b>06</b>	<b>08</b>	<b>--</b>	<b>600</b>	<b>150</b>	<b>25</b>	<b>50</b>	<b>25</b>	<b>850</b>

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# THIRD YEAR :COMPUTER ENGINEERING

## SCHEME OF INSTRUCTION AND EXAMINATION

(RC 2016-17)

### SEMESTER - V

Subject Code	Nomenclature of the Subject	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P#	ThDuration (Hrs)	Marks					Total
						Th	S	TW	P	O	
COMP 5.1	Data Communication	3	0	0	3	100	25	--	--	--	125
COMP 5.2	Automata Languages and Computation	3	1	2	3	100	25	25		--	150
COMP 5.3	Cryptography and Coding Theory	3	1	0	3	100	25	--	--	--	125
COMP 5.4	VLSI Hardware Descriptive Language	3	1	2	3	100	25	--		25	150
COMP 5.5	Database Management System	3	1	2	3	100	25	--	25		150
COMP 5.6	Operating Systems	3	1	2	3	100	25		25	--	150
<b>TOTAL</b>		<b>18</b>	<b>05</b>	<b>08</b>	--	<b>600</b>	<b>150</b>	<b>25</b>	<b>50</b>	<b>25</b>	<b>850</b>

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# THIRD YEAR: COMPUTER ENGINEERING

## SCHEME OF INSTRUCTION AND EXAMINATION

(RC 2016-17)

### SEMESTER - VI

Subject Code	Nomenclature of the Subject	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P#	ThDuration (Hrs)	Marks					Total
						Th	S	TW	P	O	
COMP 6.1	Software Testing and Quality Assurance	3	0	0	3	100	25	--	--	--	125
COMP 6.2	Design and Analysis of Algorithms	3	1	0	3	100	25	--	--	--	125
COMP 6.3	Artificial Intelligence	3	1	2	3	100	25	--	25	--	150
COMP 6.4	Computer Graphics	3	1	2	3	100	25	--	25	--	150
COMP 6.5	Embedded System Design	3	1	2	3	100	25	25	--	--	150
COMP 6.6	Computer Networks	3	1	2	3	100	25	--	--	25	150
<b>TOTAL</b>		<b>18</b>	<b>05</b>	<b>08</b>	--	<b>600</b>	<b>150</b>	<b>25</b>	<b>50</b>	<b>25</b>	<b>850</b>

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**BOARD OF COMPUTER ENGINEERING**  
**SCHEME AND SYLLABUS FOR SEM VII AND VIII OF RC-2016-17**

**COURSE**

**FINALYEAR: COMPUTER ENGINEERING**  
**SCHEME OF INSTRUCTION AND EXAMINATION**  
**(RC 2016-17)**

**SEMESTER - VII**

Subject Code	Nomenclature of the Subject	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P#	ThDuration (Hrs)	Marks					Total
						Th	S	TW	P	O	
COMP7.1	Compiler Construction	3	1	2	3	100	25	--	--	25	<b>150</b>
COMP7.2	Data Mining	3	1	2	3	100	25	--	--	--	<b>125</b>
COMP7.3	Image Processing	3	1	2	3	100	25	--	--	25	<b>150</b>
COMP7.4	Elective I	3	1	2	3	100	25	--	--	--	<b>125</b>
COMP7.5	Elective II	3	1	-	3	100	25	--	--	25	<b>150</b>
COMP7.6	Project	--	--	4	--	--	--	--	--	25	<b>25</b>
<b>TOTAL</b>		<b>15</b>	<b>05</b>	<b>12</b>	<b>--</b>	<b>500</b>	<b>125</b>	<b>--</b>	<b>-</b>	<b>100</b>	<b>725</b>

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Electives: A student must take One Elective from each Group.

Elective I		Elective II	
COMP7.4.1	VLSI Design	COMP7.5.1	Entrepreneurship Development
COMP7.4.2	Data Compression	COMP7.5.2	Geographical Information System
COMP7.4.3	Fuzzy Logic and Neural Networks	COMP7.5.3	Design Patterns and Frameworks

COMP7.4.4	Web Technologies	COMP7.5.4	Project Management and Quality Assurance
COMP7.4.5	Cloud Computing	COMP7.5.5	Big Data Analytics

**FINAL YEAR: COMPUTER ENGINEERING**  
**SCHEME OF INSTRUCTION AND EXAMINATION**  
**(RC 2016-17)**

**SEMESTER - VIII**

Subject Code	Nomenclature of the Subject	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P#	Th Duration (Hrs)	Marks					
						Th	S	TW	P	O	Total
COMP8.1	Distributed Operating Systems	3	1	2	3	100	25	--	--	25	<b>150</b>
COMP8.2	Network Security	3	1	2	3	100	25	--	--	--	<b>125</b>
COMP8.3	Elective III	3	1	2	3	100	25	--	--	25	<b>150</b>
COMP8.4	Elective IV	3	1	2	3	100	25	--	--	25	<b>150</b>
COMP8.5	Project	--	--	8	--	--	--	75	--	75	<b>150</b>
<b>TOTAL</b>		<b>12</b>	<b>04</b>	<b>16</b>	<b>--</b>	<b>400</b>	<b>100</b>	<b>75</b>	<b>-</b>	<b>150</b>	<b>725</b>

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Electives: A student must take One Elective from each Group.

Elective III		Elective IV	
COMP8.3.1	Operation Research	COMP8.4.1	Genetic Algorithms
COMP8.3.2	Multimedia Systems	COMP8.4.2	Real Time Systems
COMP8.3.3	Bio Informatics	COMP8.4.3	Mobile Computing
COMP8.3.4	Storage Area Networks	COMP8.4.4	Machine Learning
COMP8.3.5	Web Services	COMP8.4.5	Digital Signal Processing