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					
						Th	S	TW	P	O	Total
FE 1.1	Engineering Mathematics - I	4	--	--	3	100	25	--	--	--	**125**
FE 1.2	Applied Science (Physics / Chemistry)	3	--	2	3	100	25	25	--	--	**150**
FE 1.3	Engineering Mechanics	3	--	2	3	100	25	25	--	--	**150**
FE 1.4	Fundamentals of Electrical Engineering	3	--	2	3	100	25	--	--	--	**125**
FE 1.5	Fundamentals of Computer Engineering	3	--	2	3	100	25	--	--	--	**125**
FE 1.6	Technical English	3	--	--	3	100	25	--	--	--	**125**
FE 1.7	Workshop Practice – I*	--	--	4	--	--	--	50	--	--	**50**
TOTAL		**19**	**--**	**12**	**--**	**600**	**150**	**100**	**--**	**--**	**850**

* 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	--	--	--	**125**
FE 2.2	Applied Science Physics / Chemistry)	3	--	2	3	100	25	25	--	--	**150**
FE 2.3	Programming Languages	3	--	2	3	100	25	--	--	--	**125**
FE 2.4	Fundamentals of Electronics and Telecommunication Engineering	3	--	2	3	100	25	--	--	--	**125**
FE 2.5	Environmental Sciences and Social Sciences	3	--	--	3	100	25	--	--	--	**125**
FE 2.6	Engineering Graphics	2	--	4	4	100	25	25	--	--	**150**
FE 2.7	Workshop Practice - II*	--	--	4	--	--	--	50	--	--	**50**
TOTAL		**18**	**--**	**14**	**--**	**600**	**150**	**100**	**--**	**--**	**850**

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

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SECOND YEAR: INFORMATION TECHNOLOGY

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					
						Th	S	TW	P	O	Total
IT 3.1	Applied Mathematics-III	3	1	--	3	100	25	--	--	--	**125**
IT 3.2	Numerical Methods	3	1	2	3	100	25	25	--	--	**150**
IT 3.3	Signals and Systems	3	1	--	3	100	25	--	--	--	**125**
IT 3.4	Analog and Digital Circuits	3	1	2	3	100	25	--	--	25	**150**
IT 3.5	Data Structures	3	1	2	3	100	25	--	25	--	**150**
IT 3.6	Object-Oriented Programming System	3	1	2	3	100	25	--	25	--	**150**
TOTAL		**18**	**06**	**08**	**--**	**600**	**150**	**25**	**50**	**25**	**850**

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SECOND YEAR: INFORMATION TECHNOLOGY

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
IT 4.1	Discrete Mathematical Structures	3	1	--	3	100	25	--	--	--	**125**
IT 4.2	Entrepreneurship Development	3	--	--	3	100	25	--	--	--	**125**
IT 4.3	Computer Organization and Architecture	3	1	2	3	100	25	25	--	--	**150**
IT 4.4	Software Engineering	3	1	2	3	100	25	--	25	--	**150**
IT 4.5	Design and Analysis of Algorithms	3	1	2	3	100	25	--	--	25	**150**
IT 4.6	Microprocessors and Interfacing	3	1	2	3	100	25	--	25	--	**150**
TOTAL		**18**	**05**	**08**	**--**	**600**	**150**	**25**	**50**	**25**	**850**

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THIRD YEAR: INFORMATION TECHNOLOGY

SCHEME OF INSTRUCTION AND EXAMINATION

(RC 2016-17)

SEMESTER –V

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
IT 5.1	Introduction to Data Communication	3	1	--	3	100	25	--	--	--	**125**
IT 5.2	Java Programming	3	1	2	3	100	25	--	25	--	**150**
IT 5.3	Statistical Models for Information Science	3	--	--	3	100	25	--	--	--	**125**
IT 5.4	Intelligent Agents	3	1	2	3	100	25	25	--	--	**150**
IT 5.5	Operating Systems	3	1	2	3	100	25	--	--	25	**150**
IT 5.6	Database Management Systems	3	1	2	3	100	25	--	25	--	**150**
TOTAL		**18**	**05**	**08**	**--**	**600**	**150**	**25**	**50**	**25**	**850**

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THIRD YEAR: INFORMATION TECHNOLOGY

SCHEME OF INSTRUCTION AND EXAMINATION

(RC 2016-17)

SEMESTER –VI

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
IT 6.1	Data Mining	3	1	2	3	100	25	--	--	--	**125**
IT 6.2	Theory of Computation	3	1	--	3	100	25	25	--	--	**150**
IT 6.3	Computer Networks	3	1	2	3	100	25	--	--	25	**150**
IT 6.4	Computer Graphics	3	1	2	3	100	25	--	25	--	**150**
IT 6.5	Web Technology	3	1	2	3	100	25	--	25	--	**150**
IT 6.6	Software Testing and Quality Assurance	3	1	--	3	100	25	--	--	--	**125**
TOTAL		**18**	**06**	**08**	**--**	**600**	**150**	**25**	**50**	**25**	**850**

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FINAL YEAR: INFORMATION TECHNOLOGY

SCHEME OF INSTRUCTION AND EXAMINATION

(RC 2016-17)

SEMESTER –VII

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
IT 7.1	Distributed Systems	3	1	2	3	100	25	--	--	--	**125**
IT 7.2	Principles of Compilers	3	1	2	3	100	25	--	25	--	**150**
IT 7.3	Mobile Computing	3	1	2	3	100	25	--	--	25	**150**
IT 7.4	Elective-I	3	1	2	3	100	25	--	--	25	**150**
IT 7.5	Elective-II	3	1	-	3	100	25	--	--	--	**125**
IT 7.6	Project	--	--	4	--	--	--	--	--	25	**25**
TOTAL		**15**	**05**	**12**	**--**	**500**	**125**	**--**	**25**	**75**	**725**

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List of Electives

Subject Code	Elective-I	Subject Code	Elective-II
IT 7.4 .1	Operation Research	IT 7.5.1	Geographical Information System
IT 7.4 .2	Genetic Algorithms	IT 7.5.2	Cyber laws and Computer Forensic
IT 7.4 .3	Bio Informatics	IT 7.5.3	Financial Engineering
IT 7.4 .4	E-Commerce	IT 7.5.4	IT Business Methodology
IT 7.4 .5	Digital Signal Processing	IT 7.5.5	Computer Forensic

FINAL YEAR: INFORMATION TECHNOLOGY

SCHEME OF INSTRUCTION AND EXAMINATION

(RC 2016-17)

SEMESTER –VIII

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
IT 8.1	Image processing and Pattern Recognition	3	1	2	3	100	25	--	--	25	**150**
IT 8.2	Computer Cryptography	3	1	2	3	100	25	--	25	--	**150**
IT 8.3	Elective-III	3	1	2	3	100	25	--		--	**125**
IT 8.4	Elective-IV	3	1	2	3	100	25	--	--	25	**150**
IT 8.5	Project*	--	--	8	--	--	--	75	--	75	**150**
TOTAL		**12**	**04**	**16**	**--**	**400**	**100**	**75**	**25**	**125**	**725**

* Term Work in Project is a separate Head of Passing.

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List of Electives

Subject Code	Elective-III	Subject Code	Elective-IV
IT 8.3.1	Web Services	IT 8.4.1	VLSI Design
IT 8.3.2	Natural Language Processing	IT 8.4.2	Embedded System Design
IT 8.3.3	Design Patterns and Frameworks	IT 8.4.3	System Performance and Evaluation
IT 8.3.4	Fuzzy Logic and Neural Networks	IT 8.4.4	Advanced Computer Architecture
IT 8.3.5	Functional Programming	IT 8.4.5	Grid Computing