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SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
THIRD SEMESTER – B.E
ACADEMIC YEAR 2013-14

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits	Marks			Exam Duration (Hrs)
				L	T	P	Total		CIE	SEE	Total	
1	MA0403	Engineering Mathematics – III	MATHS	4	0	0	4	4	50	50	100	3
2	IS0401	Discreet Mathematical Structure	IS & E	4	0	0	4	4	50	50	100	3
3	IS0402	Logic Design	IS & E	4	0	0	4	4	50	50	100	3
4	IS0403	Data Structures	IS & E	4	0	0	4	4	50	50	100	3
5	IS0404	Object Oriented Programming	IS & E	4	0	0	4	4	50	50	100	3
6		Logic Design Lab	IS & E	0	0	2	2	1	50	--	50	--
7		Data Structures Lab	IS & E	0	0	2	2	1	50	--	50	--
8	IS0104	Object Oriented Programming Lab	IS & E	0	0	2	2	1	50	--	50	--
9		Environmental Studies	CIVIL	2	0	0	2	0	50	50	50	2
10	MA0001	Bridge Course Mathematics – I *	MATHS	2	0	0	2	0	50	50	50	2
TOTAL				24	0	6	30	23	500	350	750	--

*** Exclusively for lateral Entry Students**

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
FOURTH SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits	Marks			Exam Duration (Hrs)
				L	T	P	Total		CIE	SEE	Total	
1	MA0404	Engineering Mathematics – IV	MATHS	4	0	0	4	4	50	50	100	3
2	IS0405	Graph Theory and Combinatorics	IS & E	4	0	0	4	4	50	50	100	3
3	IS0406	Computer Organization	IS & E	4	0	0	4	4	50	50	100	3
4	IS0407	Analysis and Design of Algorithms	IS & E	4	0	0	4	4	50	50	100	3
5	IS0408	Finite Automata and Formal Languages	IS & E	3	2	0	5	4	50	50	100	3
6	IS0409	DataBase Management Systems	IS & E	4	0	0	4	4	50	50	100	3
7	IS0103	Analysis and Design of Algorithms Lab	IS & E	0	0	2	2	1	50	--	50	--
8	IS0105	DataBase Lab	IS & E	0	0	2	2	1	50	--	50	--
9		Constitution of India and Professional Ethics	CS & E	2	0	0	2	0	50	50	50	2
10	MA0002	Bridge Course Mathematics – II *	MATHS	2	0	0	2	0	50	50	50	2
TOTAL				27	2	4	33	26	500	400	800	--

*** Exclusively for lateral Entry Students**

SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
FIFTH SEMESTER – B.E

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits	Marks			Exam Duration (Hrs)
				L	T	P	Total		CIE	SEE	Total	
1	IS0410	MicroProcessor	IS & E	4	0	0	4	4	50	50	100	3
2	IS0411	Systems Software	IS & E	4	0	0	4	4	50	50	100	3
3	IS0420	Java and J2EE	IS & E	4	0	0	4	4	50	50	100	3
4	IS0413	Data Communication	IS & E	4	0	0	4	4	50	50	100	3
5	IS0414	Operating Systems	IS & E	4	0	0	4	4	50	50	100	3
6		MicroProcessor Lab	IS & E	0	0	2	2	1	50	--	50	--
7		Systems Software Lab	IS & E	0	0	2	2	1	50	--	50	--
8	IS0111	Java and J2EE Lab	IS & E	0	0	2	2	1	50	--	50	--
9	IS04xx	Elective – I	IS & E	4	0	0	4	4	50	50	100	3
TOTAL				24	0	6	30	27	450	300	750	--

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
SIXTH SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits	Marks			Exam Duration (Hrs)
				L	T	P	Total		CIE	SEE	Total	
1	IS0415	Software Engineering	IS & E	4	0	0	4	4	50	50	100	3
2	IS0416	Web Programming	IS & E	4	0	0	4	4	50	50	100	3
3	IS0419	Management and Entrepreneurship Development	IS & E	3	2	0	5	4	50	50	100	3
4	IS0418	Computer Networks	IS & E	4	0	0	4	4	50	50	100	3
5	IS0108	Web Programming Lab	IS & E	0	0	2	2	1	50	--	50	--
6	IS0110	Computer Networks Lab	IS & E	0	0	2	2	1	50	--	50	--
7	IS04xx	Elective – II	IS & E	4	0	0	4	4	50	50	100	3
8	IS04xx	Elective – III	IS & E	4	0	0	4	4	50	50	100	3
TOTAL				24	0	4	28	26	400	300	700	--

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
SEVENTH SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits	Marks			Exam Duration (Hrs)
				L	T	P	Total		CIE	SEE	Total	
1	IS0424	Information Storage and Management	IS & E	4	0	0	4	4	50	50	100	3
2	IS0433	Cryptography and Network Security	IS & E	4	0	0	4	4	50	50	100	3
3	IS0434	Cloud Computing	IS & E	4	0	0	4	4	50	50	100	3
4	IS0301	Project Work – I	IS & E	0	0	6	6	3	50	50	100	3
5	IS04xx	Elective – IV	IS & E	4	0	0	4	4	50	50	100	3
6	IS04xx	Elective – V	IS & E	4	0	0	4	4	50	50	100	3
7	IS02xx	Elective – V (a) *	IS & E	2	0	0	2	2	50	50	100	2
TOTAL				20	0	6	26	23	300	300	600	--

*** Exclusively for lateral Entry Students**

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
EIGHT SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits	Marks			Exam Duration (Hrs)
				L	T	P	Total		CIE	SEE	Total	
1	IS0422	Advanced Computer Architecture	IS & E	4	0	0	4	4	50	50	100	3
2		Big Data Analytics	IS & E	4	0	0	4	4	50	50	100	3
3	IS0202	Seminar	IS & E	0	0	2	2	1	50	--	50	-
4	IS0601	Project Work – II	IS & E	0	0	12	12	6	50	50	100	3
5	IS04xx	Elective – VI	IS & E	4	0	0	4	4	50	50	100	3
6	IS04xx	Elective – VII	IS & E	4	0	0	4	4	50	50	100	3
7	IS04xx	Elective – VIII	IS & E	4	0	0	4	4	50	50	100	3
TOTAL				20	0	14	34	27	350	300	650	--

PROJECT WORK – I (0:0:6)

Sub code : IS0301
Hrs/week : 06

Max. Marks: 100

Course Outcome

On Successful completion of the course, the students will be able to:

1. Identify and formulate the problem and perform problem analysis and feasibility of solution.

In the first stage of the project work students are expected to identify the problem to be solved. This requires understanding the complete problem. The various need analysis and constraint the may arise in solving the problems are thoroughly analyzed.

In this phase of the project students are going to formulate the problem, which comprises requirements, alternative solution or the best solution possible for the problem.

Here the students are going to work in terms of batch. The batch is limited to maximum of 4 students.

TOPIC SEMINAR (0:0:4)

Sub code : IS0202
Hrs/week : 04

Max. Marks: 50

Course Outcome

On Successful completion of the course, the students will be able to:

1. Identify real-world issues.
2. Distinguish differing forms of knowledge and apply a multidisciplinary strategy to address current, real-world issues.
3. Evaluate oral and written communication skills.

Seminar should be given by individual student based on current emerging area and technologies

MANAGEMENT AND ENTREPRENEURSHIP DEVELOPMENT (3:2:0)

Sub code : IS0419
Hrs/week : 04
SEE Hrs : 03 Hours

CIE : 50% Marks
SEE : 50% Marks
Max. Marks: 100

Course Outcomes

On Successful completion of the course, the students will be able to:

1. Obtain a broad theoretical knowledge of management.
2. Identify the objectives of planning and organization.
3. Ability to explain the importance of Directing and controlling functions.
4. Obtain a broad theoretical knowledge of entrepreneurship.
5. Create and present a business plan for a technology idea.
6. Express technical proficiency in interpreting financial statements.

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
THIRD SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	MA0403	Engineering Mathematics – III	MATHS	4	0	0	4	4
2	IS0401	Discreet Mathematical Structure	IS & E	4	0	0	4	4
3	IS0402	Logic Design	IS & E	4	0	0	4	4
4	IS0403	Data Structures	IS & E	4	0	0	4	4
5	IS0404	Object Oriented Programming	IS & E	4	0	0	4	4
6	IS0101	Logic Design Lab	IS & E	0	0	3	3	1.5
7	IS0102	Data Structures Lab	IS & E	0	0	3	3	1.5
8	IS0104	Object Oriented Programming Lab	IS & E	0	0	2	2	1
9	HS0002	Environmental Studies	CIVIL	2	0	0	2	0
10	MA0001	Bridge Course Mathematics – I *	MATHS	2	0	0	2	0
TOTAL				24	0	8	32	24

*** Exclusively for lateral Entry Students**

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
FOURTH SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	MA0404	Engineering Mathematics – IV	MATHS	4	0	0	4	4
2	IS0405	Graph Theory and Combinatorics	IS & E	4	0	0	4	4
3	IS0406	Computer Organization	IS & E	4	0	0	4	4
4	IS0407	Analysis and Design of Algorithms	IS & E	4	0	0	4	4
5	IS0408	Finite Automata and Formal Languages	IS & E	3	2	0	5	4
6	IS0409	DataBase Management Systems	IS & E	4	0	0	4	4
7	IS0103	Analysis and Design of Algorithms Lab	IS & E	0	0	2	2	1
8	IS0105	DataBase Lab	IS & E	0	0	2	2	1
9	HS0001	Constitution of India and Professional Ethics	CS & E	2	0	0	2	0
10	MA0002	Bridge Course Mathematics – II *	MATHS	2	0	0	2	0
TOTAL				27	2	4	33	26

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
FIFTH SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	IS0410	Microprocessor	IS & E	4	0	0	4	4

2	IS0411	System Software	IS & E	4	0	0	4	4
3	IS0412	Data Mining	IS & E	4	0	0	4	4
4	IS0413	Data Communication	IS & E	4	0	0	4	4
5	IS0414	Operating System	IS & E	4	0	0	4	4
6	IS0201	Introduction to Engineering and Design	IS & E	2	0	0	2	2
7	IS0106	Microprocessor Lab	IS & E	0	0	3	3	1.5
8	IS0107	System Software Lab	IS & E	0	0	3	3	1.5
9	IS04xx	Elective – I	IS & E	4	0	0	4	4
TOTAL				26	0	6	32	29

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
SIXTH SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	IS0415	Software Engineering	IS & E	4	0	0	4	4
2	IS0416	Web Programming	IS & E	4	0	0	4	4
3	IS0417	Unix Systems Programming	IS & E	4	0	0	4	4
4	IS0418	Computer Networks	IS & E	4	0	0	4	4
5	IS0108	Web Programming Lab	IS & E	0	0	2	2	1
6	IS0109	Unix Systems Programming Lab	IS & E	0	0	2	2	1
7	IS0110	Computer Networks Lab	IS & E	0	0	2	2	1
8	IS04xx	Elective – II	IS & E	4	0	0	4	4
9	IS04xx	Elective – III	IS & E	4	0	0	4	4
TOTAL				24	0	6	30	27

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
SEVENTH SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	IS0419	Management and Entrepreneurship Development	IS&E	3	2	0	5	4
2	IS0420	Java and J2EE	IS&E	4	0	0	4	4
3	IS0421	Object Oriented Analysis and Design	IS&E	4	0	0	4	4
4	IS0111	Java Programming Lab	IS&E	0	0	2	2	1
5	IS0301	Project Work –I	IS&E	0	0	6	6	3
6	IS04xx	Elective – IV	IS&E	4	0	0	4	4
7	IS04xx	Elective – V	IS&E	4	0	0	4	4
TOTAL				19	2	8	29	24

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
EIGHT SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	IS0422	Advanced Computer architecture	IS&E	4	0	0	4	4
2	IS0202	Topic Seminar	IS&E	0	0	4	4	2
3	IS0601	Project Work –II	IS&E	0	0	12	12	6
4	IS04xx	Elective – VI	IS&E	4	0	0	4	4
5	IS04xx	Elective – VII	IS&E	4	0	0	4	4
6	IS04xx	Elective – VII	IS&E	4	0	0	4	4
TOTAL				16	0	16	32	24

VII SEMESTER

MANAGEMENT AND ENTREPRENEURSHIP DEVELOPMENT (3:2:0)

Sub code : IS0419
Hrs/week : 04
SEE Hrs : 03 Hours

CIE : 50% Marks
SEE : 50% Marks
Max. Marks: 100

Course Outcomes

On Successful completion of the course, the students will be able to:

1. Obtain a broad theoretical knowledge of management.
2. Identify the objectives of planning and organization.
3. Ability to explain the importance of Directing and controlling functions.
4. Obtain a broad theoretical knowledge of entrepreneurship.
5. Create and present a business plan for a technology idea.
6. Express technical proficiency in interpreting financial statements.

PROJECT WORK – I (0:0:6)

Sub code : IS0301
Hrs/week : 06

Max. Marks: 100

Course Outcome

On Successful completion of the course, the students will be able to:

1. Identify and formulate the problem and perform problem analysis and feasibility of solution.

In the first stage of the project work students are expected to identify the problem to be solved. This requires understanding the complete problem. The various need analysis and constraint the may arise in solving the problems are thoroughly analyzed.

In this phase of the project students are going to formulate the problem, which comprises requirements, alternative solution or the best solution possible for the problem.

Here the students are going to work in terms of batch. The batch is limited to maximum of 4 students.

TOPIC SEMINAR (0:0:4)**Sub code : IS0202****Max. Marks: 50****Hrs/week : 04****Course Outcome****On Successful completion of the course, the students will be able to:**

1. Identify real-world issues.
2. Distinguish differing forms of knowledge and apply a multidisciplinary strategy to address current, real-world issues.
3. Evaluate oral and written communication skills.

Seminar should be given by individual student based on current emerging area and technologies

Project Work – II (0:0:12)**Sub code : IS0601****Max. Marks: 100****Hrs/week : 12****Course Outcome****On Successful completion of the course, the students will be able to:**

1. Highlight model and analysis and also the results obtained.

In the second phase of the project work students are expected to implement the problem solving process taken in the phase – 1. The outcome of the project is to highlight model and analysis and also the results obtained.

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
THIRD SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	MA0403	Engineering Mathematics – III	MATHS	4	0	0	4	4
2	IS0401	Discreet Mathematical Structure	IS & E	4	0	0	4	4
3	IS0402	Logic Design	IS & E	4	0	0	4	4
4	IS0403	Data Structures	IS & E	4	0	0	4	4
5	IS0404	Object Oriented Programming	IS & E	4	0	0	4	4
6	IS0101	Logic Design Lab	IS & E	0	0	3	3	1.5
7	IS0102	Data Structures Lab	IS & E	0	0	3	3	1.5
8	IS0104	Object Oriented Programming Lab	IS & E	0	0	2	2	1
9	HS0002	Environmental Studies	CIVIL	2	0	0	2	0
10	MA0001	Bridge Course Mathematics – I *	MATHS	2	0	0	2	0
TOTAL				24	0	8	32	24

*** Exclusively for lateral Entry Students**

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
FOURTH SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	MA0404	Engineering Mathematics – IV	MATHS	4	0	0	4	4
2	IS0405	Graph Theory and Combinatorics	IS & E	4	0	0	4	4
3	IS0406	Computer Organization	IS & E	4	0	0	4	4
4	IS0407	Analysis and Design of Algorithms	IS & E	4	0	0	4	4
5	IS0408	Finite Automata and Formal Languages	IS & E	3	2	0	5	4
6	IS0409	DataBase Management Systems	IS & E	4	0	0	4	4
7	IS0103	Analysis and Design of Algorithms Lab	IS & E	0	0	2	2	1
8	IS0105	DataBase Lab	IS & E	0	0	2	2	1
9	HS0001	Constitution of India and Professional Ethics	CS & E	2	0	0	2	0
10	MA0002	Bridge Course Mathematics – II *	MATHS	2	0	0	2	0
TOTAL				27	2	4	33	26

*** Exclusively for lateral Entry Students**

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
FIFTH SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	IS0410	MicroProcessor	IS & E	4	0	0	4	4
2	IS0411	Systems Software	IS & E	4	0	0	4	4
3	IS0413	Data Communication	IS & E	4	0	0	4	4
4	IS0414	Operating Systems	IS & E	4	0	0	4	4
5		Java Programming	IS & E	4	0	0	4	4
6	IS0114	MicroProcessor Lab	IS & E	0	0	2	2	1
7	IS0115	Systems Software Lab	IS & E	0	0	2	2	1
8		Java Programming Lab	IS & E	0	0	2	2	1
9	IS04xx	Elective – I	IS & E	4	0	0	4	4
TOTAL				24	0	6	30	27

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
SIXTH SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	IS0415	Software Engineering	IS & E	4	0	0	4	4
2	IS0416	Web Programming	IS & E	4	0	0	4	4
3	IS0418	Computer Networks	IS & E	4	0	0	4	4
4	IS0419	Management and Entrepreneurship Development	IS & E	3	2	0	5	4
5	IS0108	Web Programming Lab	IS & E	0	0	2	2	1
6	IS0110	Computer Networks Lab	IS & E	0	0	2	2	1
7	IS0117	Seminar	IS & E	0	0	2	2	1
8	IS04xx	Elective – II	IS & E	4	0	0	4	4
9	IS04xx	Elective – III	IS & E	4	0	0	4	4
TOTAL				23	2	6	31	27

SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
SEVENTH SEMESTER – B.E

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	IS0419	Management and Entrepreneurship Development	IS&E	3	2	0	5	4
2	IS0420	Java and J2EE	IS&E	4	0	0	4	4
3	IS0421	Object Oriented Analysis and Design	IS&E	4	0	0	4	4
4	IS0111	Java Programming Lab	IS&E	0	0	2	2	1
5	IS0301	Project Work –I	IS&E	0	0	6	6	3
6	IS04xx	Elective – IV	IS&E	4	0	0	4	4
7	IS04xx	Elective – V	IS&E	4	0	0	4	4
TOTAL				19	2	8	29	24

SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
EIGHT SEMESTER – B.E

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	IS0422	Advanced Computer architecture	IS&E	4	0	0	4	4
2	IS0202	Topic Seminar	IS&E	0	0	4	4	2
3	IS0601	Project Work –II	IS&E	0	0	12	12	6
4	IS04xx	Elective – VI	IS&E	4	0	0	4	4
5	IS04xx	Elective – VII	IS&E	4	0	0	4	4
6	IS04xx	Elective – VII	IS&E	4	0	0	4	4
TOTAL				16	0	16	32	24

SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
THIRD SEMESTER – B.E

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits	Marks			Exam Duration (Hrs)
				L	T	P	Total		CIE	SEE	Total	
1	MA0403	Engineering Mathematics – III	MATHS	4	0	0	4	4	50	50	100	3
2	IS0401	Discreet Mathematical Structure	IS & E	4	0	0	4	4	50	50	100	3
3	IS0402	Logic Design	IS & E	4	0	0	4	4	50	50	100	3
4	IS0403	Data Structures	IS & E	4	0	0	4	4	50	50	100	3
5	IS0404	Object Oriented Programming	IS & E	4	0	0	4	4	50	50	100	3
6	IS0101	Logic Design Lab	IS & E	0	0	3	3	1.5	50	--	50	--
7	IS0102	Data Structures Lab	IS & E	0	0	3	3	1.5	50	--	50	--
8	IS0104	Object Oriented Programming Lab	IS & E	0	0	2	2	1	50	--	50	--
9	HS0002	Environmental Studies	CIVIL	2	0	0	2	0	50	50	50	2
10	MA0001	Bridge Course Mathematics – I *	MATHS	2	0	0	2	0	50	50	50	2
TOTAL				22	0	8	30	24	450	300	700	--
TOTAL (Lateral Entry)				24	0	8	32	24	500	350	750	--

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**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
FOURTH SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits	Marks			Exam Duration (Hrs)
				L	T	P	Total		CIE	SEE	Total	
1	MA0404	Engineering Mathematics – IV	MATHS	4	0	0	4	4	50	50	100	3
2	IS0405	Graph Theory and Combinatorics	IS & E	4	0	0	4	4	50	50	100	3
3	IS0406	Computer Organization	IS & E	4	0	0	4	4	50	50	100	3
4	IS0407	Analysis and Design of Algorithms	IS & E	4	0	0	4	4	50	50	100	3
5	IS0408	Finite Automata and Formal Languages	IS & E	3	2	0	5	4	50	50	100	3
6	IS0409	DataBase Management Systems	IS & E	4	0	0	4	4	50	50	100	3
7	IS0103	Analysis and Design of Algorithms Lab	IS & E	0	0	2	2	1	50	--	50	--
8	IS0105	DataBase Lab	IS & E	0	0	2	2	1	50	--	50	--
9	HS0001	Constitution of India and Professional Ethics	CS & E	2	0	0	2	0	50	50	50	2
10	MA0002	Bridge Course Mathematics – II *	MATHS	2	0	0	2	0	50	50	50	2
TOTAL				25	2	4	31	26	450	350	750	--
TOTAL (Lateral Entry)				27	2	4	33	26	500	400	800	--

* Exclusively for lateral Entry Students

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
FIFTH SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits	Marks			Exam Duration (Hrs)
				L	T	P	Total		CIE	SEE	Total	
1	IS0410	MicroProcessor	IS & E	4	0	0	4	4	50	50	100	3
2	IS0411	Systems Software	IS & E	4	0	0	4	4	50	50	100	3
3	IS0413	Data Communication	IS & E	4	0	0	4	4	50	50	100	3
4	IS0414	Operating Systems	IS & E	4	0	0	4	4	50	50	100	3
5	IS0440	Java Programming	IS & E	4	0	0	4	4	50	50	100	3
6	IS0111	Java Programming Lab	IS & E	0	0	2	2	1	50	--	50	--
7	IS0114	MicroProcessor Lab	IS & E	0	0	2	2	1	50	--	50	--
8	IS0115	Systems Software Lab	IS & E	0	0	2	2	1	50	--	50	--
9	IS04xx	Elective – I	IS & E	4	0	0	4	4	50	50	100	3
TOTAL				24	0	6	30	27	450	300	750	--

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
SIXTH SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits	Marks			Exam Duration (Hrs)
				L	T	P	Total		CIE	SEE	Total	
1	IS0415	Software Engineering	IS & E	4	0	0	4	4	50	50	100	3
2	IS0416	Web Programming	IS & E	4	0	0	4	4	50	50	100	3
3	IS0418	Computer Networks	IS & E	4	0	0	4	4	50	50	100	3
4	IS0419	Management and Entrepreneurship Development	IS & E	3	2	0	5	4	50	50	100	3
5	IS0108	Web Programming Lab	IS & E	0	0	2	2	1	50	--	50	--
6	IS0110	Computer Networks Lab	IS & E	0	0	2	2	1	50	--	50	--
7	IS0117	Seminar	IS & E	0	0	2	2	1	50	--	50	--
8	IS04xx	Elective – II	IS & E	4	0	0	4	4	50	50	100	3
9	IS04xx	Elective – III	IS & E	4	0	0	4	4	50	50	100	3
TOTAL				23	2	6	31	27	450	300	750	--

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
SEVENTH SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits	Marks			Exam Duration (Hrs)
				L	T	P	Total		CIE	SEE	Total	
1	IS0424	Information Storage and Management	IS & E	4	0	0	4	4	50	50	100	3
2	IS0433	Cryptography and Network Security	IS & E	3	2	0	5	4	50	50	100	3
3	IS0434	Cloud Computing	IS & E	4	0	0	4	4	50	50	100	3
4	IS0203	Project Work – I	IS & E	0	0	4	4	2	50	50	100	3
5	IS04xx	Elective – IV	IS & E	4	0	0	4	4	50	50	100	3
6	IS04xx	Elective – V	IS & E	4	0	0	4	4	50	50	100	3
7	IS02xx	Elective – V (a) *	IS & E	2	0	0	2	2	50	50	50	2
TOTAL				19	2	4	25	22	300	300	600	--
TOTAL (Lateral Entry)				17	2	4	23	20	300	300	550	--

* Exclusively for lateral Entry Students

**SCHEME OF TEACHING AND EXAMINATION
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
EIGHT SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits	Marks			Exam Duration (Hrs)
				L	T	P	Total		CIE	SEE	Total	
1	IS0422	Advanced Computer Architecture	IS & E	4	0	0	4	4	50	50	100	3
2	IS0437	Big Data Analytics	IS & E	4	0	0	4	4	50	50	100	3
3	IS0601	Project Work – II	IS & E	0	0	12	12	6	50	50	100	3
4	IS04xx	Elective – VI	IS & E	4	0	0	4	4	50	50	100	3
5	IS04xx	Elective – VII	IS & E	4	0	0	4	4	50	50	100	3
6	IS04xx	Elective – VIII	IS & E	4	0	0	4	4	50	50	100	3
TOTAL				20	0	12	32	26	300	300	600	--

MANAGEMENT AND ENTREPRENEURSHIP DEVELOPMENT (3:2:0)

Sub code : IS0419
Hrs/week : 04
SEE Hrs : 03 Hours

CIE : 50% Marks
SEE : 50% Marks
Max. Marks: 100

Course Outcomes

On Successful completion of the course, the students will be able to:

1. Obtain a broad theoretical knowledge of management.
2. Identify the objectives of planning and organization.
3. Ability to explain the importance of Directing and controlling functions.
4. Obtain a broad theoretical knowledge of entrepreneurship.
5. Create and present a business plan for a technology idea.
6. Express technical proficiency in interpreting financial statements.

PROJECT WORK – I (0:0:6)

Sub code : IS0301
Hrs/week : 06

Max. Marks: 100

Course Outcome

On Successful completion of the course, the students will be able to:

1. Identify and formulate the problem and perform problem analysis and feasibility of solution.

In the first stage of the project work students are expected to identify the problem to be solved. This requires understanding the complete problem. The various need analysis and constraint the may arise in solving the problems are thoroughly analyzed.

In this phase of the project students are going to formulate the problem, which comprises requirements, alternative solution or the best solution possible for the problem.

Here the students are going to work in terms of batch. The batch is limited to maximum of 4 students.

TOPIC SEMINAR (0:0:4)

Sub code : IS0202
Hrs/week : 04

Max. Marks: 50

Course Outcome

On Successful completion of the course, the students will be able to:

1. Identify real-world issues.
2. Distinguish differing forms of knowledge and apply a multidisciplinary strategy to address current, real-world issues.
3. Evaluate oral and written communication skills.

Seminar should be given by individual student based on current emerging area and technologies

Project Work – II (0:0:12)

Sub code : IS0601
Hrs/week : 12

Max. Marks: 100

Course Outcome

On Successful completion of the course, the students will be able to:

1. Highlight model and analysis and also the results obtained.

In the second phase of the project work students are expected to implement the problem solving process taken in the phase – 1. The outcome of the project is to highlight model and analysis and also the results obtained.

BIG DATA ANALYTICS (4:0:0)

Sub code : IS0437
Hrs/week : 04
SEE Hrs : 03 Hours

CIE : 50% Marks
SEE : 50% Marks
Max. Marks: 100

Course Outcomes

On Successful completion of the course, the students will be able to:

1. Analyze several key technologies used in manipulating, storing, and analyzing big data.
2. Acquire clear understanding of R & Hadoop.
3. Acquire clear understanding of Integrating R & Hadoop
4. Acquire clear understanding of Hadoop Streaming and its importance.
5. Acquire a clear understanding data analytics problems with case studies.
6. Analyze Big Data with Machine Learning

**SCHEME OF TEACHING
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
THIRD SEMESTER – B.E**

Sl.No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	MA0407	Engineering Mathematics – III	MATHS	4	0	0	4	4
2	IS0401	Discrete Mathematical Structure	IS & E	4	0	0	4	4
3	IS0402	Logic Design	IS & E	4	0	0	4	4
4	IS0403	Data Structures	IS & E	4	0	0	4	4
5	IS0404	Object Oriented Programming	IS & E	4	0	0	4	4
6	IS0101	Logic Design Lab	IS & E	0	0	3	3	1.5
7	IS0102	Data Structures Lab	IS & E	0	0	3	3	1.5
8	IS0104	Object Oriented Programming Lab	IS & E	0	0	2	2	1
9	HS0102	Environmental Studies	CIVIL	2	0	0	2	1
10	MA0201	Bridge Course Mathematics – I *	MATHS	2	0	0	2	2
TOTAL				22	0	8	30	25
TOTAL (Lateral Entry)				24	0	8	32	27

* Exclusively for lateral Entry Students

Pattern of course evaluation for both CIE and SEE will be mentioned in the abridged lesson plan and the Course Instructor (CI) will discuss the same with the students during the first/second session of the semester.

**SCHEME OF TEACHING
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
FOURTH SEMESTER – B.E**

Sl.No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	MA0410	Engineering Mathematics – IV	MATHS	4	0	0	4	4
2	IS0405	Graph Theory and Combinatorics	IS & E	4	0	0	4	4
3	IS0406	Computer Organization [§]	IS & E	4	0	0	4	4
4	IS0407	Analysis and Design of Algorithms	IS & E	4	0	0	4	4
5	IS0408	Finite Automata and Formal Languages	IS & E	3	2	0	5	4
6	IS0409	DataBase Management Systems	IS & E	4	0	0	4	4
7	IS0103	Analysis and Design of Algorithms Lab	IS & E	0	0	2	2	1
8	IS0105	DataBase Lab	IS & E	0	0	2	2	1
9	HS0101	Constitution of India and Professional Ethics	CS & E	2	0	0	2	1
10	MA0202	Bridge Course Mathematics – II *	MATHS	2	0	0	2	2
11	HS0201	English Enhancement Course*	Humanities	2	0	0	2	2
TOTAL (Regular)				25	2	4	31	27
TOTAL (Lateral Entry)				25	2	4	31	27

* Exclusively for lateral Entry Students § Only for Regular Students (Excluding Lateral Entry Students)

**SCHEME OF TEACHING
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
FIFTH SEMESTER – B.E**

Sl.No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	IS0410	Micro Processor	IS & E	4	0	0	4	4
2	IS0411	Systems Software	IS & E	4	0	0	4	4
3	IS0413	Data Communication	IS & E	4	0	0	4	4
4	IS0414	Operating Systems	IS & E	4	0	0	4	4
5	IS0440	Java Programming	IS & E	4	0	0	4	4
6	IS0111	Java Programming Lab	IS & E	0	0	2	2	1
7	IS0114	Micro Processor Lab	IS & E	0	0	2	2	1
8	IS0115	Systems Software Lab	IS & E	0	0	2	2	1
9	IS04xx	Elective – I	IS & E	4	0	0	4	4
TOTAL				24	0	6	30	27

Pattern of course evaluation for both CIE and SEE will be mentioned in the abridged lesson plan and the Course Instructor (CI) will discuss the same with the students during the first/second session of the semester.

ELECTIVE – I

IS0426	Compiler Design	(4-0-0)4
IS0423	Management and Information Systems	(4-0-0)4
IS0412	Data Mining	(4-0-0)4

**SCHEME OF TEACHING
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
SIXTH SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	IS0415	Software Engineering	IS & E	4	0	0	4	4
2	IS0416	Web Programming	IS & E	4	0	0	4	4
3	IS0418	Computer Networks	IS & E	4	0	0	4	4
4	IS0419	Management and Entrepreneurship Development	IS & E	3	2	0	5	4
5	IS0108	Web Programming Lab	IS & E	0	0	2	2	1
6	IS0110	Computer Networks Lab	IS & E	0	0	2	2	1
7	IS0117	Seminar	IS & E	0	0	2	2	1
8	IS04xx	Elective – II	IS & E	4	0	0	4	4
9	IS04xx	Elective – III	IS & E	4	0	0	4	4
TOTAL				23	2	6	31	27

Pattern of course evaluation for both CIE and SEE will be mentioned in the abridged lesson plan and the Course Instructor (CI) will discuss the same with the students during the first/second session of the semester.

ELECTIVE – II

IS0417	Unix Systems Programming	(4-0-0)4
IS0436	Introduction To C# Programming And .Net Concepts	(4-0-0)4
IS0428	Multimedia Computing	(4-0-0)4

ELECTIVE – III

IS0427	Distributed Operating Systems	(4-0-0)4
IS0430	Computer graphics and visualization	(4-0-0)4
IS0429	System simulation and modeling	(4-0-0)4

**SCHEME OF TEACHING
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
SEVENTH SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	IS0422	Advanced Computer Architecture	IS & E	4	0	0	4	4
2	IS0433	Cryptography and Network Security	IS & E	3	2	0	5	4
3	IS0434	Cloud Computing	IS & E	4	0	0	4	4
4	IS0204	Mini Project	IS & E	0	0	4	4	2
5	IS04xx	Elective – IV	IS & E	4	0	0	4	4
6	IS04xx	Elective – V	IS & E	4	0	0	4	4
7	IS02xx	Elective – V (a) *	IS & E	2	0	0	2	2
8	IS04xx	Elective – VI	IS & E	4	0	0	4	4
TOTAL				23	2	4	29	26
TOTAL (Lateral Entry)				21	2	4	27	24

* Exclusively for lateral Entry Students

Pattern of course evaluation for both CIE and SEE will be mentioned in the abridged lesson plan and the Course Instructor (CI) will discuss the same with the students during the first/second session of the semester.

ELECTIVE – IV

IS0425	Real Time Systems	(4-0-0)4
IS0431	Software Testing, Practice And Principles	(4-0-0)4
IS0435	Parallel programming	(4-0-0)4

ELECTIVE – V

IS0439	Computer Forensics	(4-0-0)4
IS0443	Cognitive Science	(4-0-0)4
	Wireless Adhoc Network	(4-0-0)4

ELECTIVE – V (a) * (For Lateral Entry Students)

IS0207	Introduction To Data Analytics	(2-0-0)2
IS0206	Software Testing Principles	(2-0-0)2
IS0205	Research Methodology	(2-0-0)2

ELECTIVE – VI

IS0442	Artificial Intelligence	(4-0-0)4
	Web Security	(4-0-0)4
	Network Management	(4-0-0)4

**SCHEME OF TEACHING
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
EIGHT SEMESTER – B.E**

Sl. No	Subject Code	Course Title	Teaching Dept	Contact Hours / Week				Credits
				L	T	P	Total	
1	IS0304	Information Storage	IS & E	3	0	0	3	3
2	IS0437	Big Data Analytics	IS & E	4	0	0	4	4
3	IS0602	Major Project	IS & E	0	0	12	12	6

4	IS0118	Paper Presentation / Internship/ Industrial Visit / Aptitude /soft skills Training	IS & E	0	0	2	2	1
5	IS04xx	Elective – VII	IS & E	4	0	0	4	4
6	IS04xx	Elective – VIII	IS & E	4	0	0	4	4
TOTAL				15	0	14	29	22

Pattern of course evaluation for both CIE and SEE will be mentioned in the abridged lesson plan and the Course Instructor (CI) will discuss the same with the students during the first/second session of the semester.

ELECTIVE – VII

IS0438	Cyber Security	(4-0-0)4
IS0444	Introduction To Machine Learning	(4-0-0)4
	Information Retrieval Systems	(4-0-0)4

ELECTIVE – VIII

IS0432	Wireless Communication And Networks	(4-0-0)4
IS0441	Android Programming	(4-0-0)4
	Semantic Web	(4-0-0)4

MINI PROJECT (0:0:4)

Sub code : IS0204

Max. Marks: 100

Hrs/week : 04

Course Outcome

On Successful completion of the course, the students will be able to:

1. Identify emerging areas of interest feasible to the project group.
2. Formulate the problem and perform analysis of it by the team.
3. Develop and implement cost effective design methods to solve the problem.

BIG DATA ANALYTICS (4:0:0)

Sub code : IS0437

CIE : 50% Marks

Hrs/week : 04

SEE : 50% Marks

SEE Hrs : 03 Hours

Max. Marks: 100

Course Outcomes

On Successful completion of the course, the students will be able to:

1. Analyze several key technologies used in manipulating, storing, and analyzing big data.
2. Acquire clear understanding of R & Hadoop.
3. Acquire clear understanding of Integrating R & Hadoop
4. Acquire clear understanding of Hadoop Streaming and its importance.
5. Acquire a clear understanding data analytics problems with case studies.
6. Analyze Big Data with Machine Learning

MAJOR PROJECT (0:0:12)

Sub code : IS0602

Max. Marks: 100

Hrs/week : 12

Course Outcome

On Successful completion of the course, the students will be able to:

1. Identify different areas of interest ethically feasible to the project team.
2. Formulate the problem and perform problem analysis.
3. Develop cost effective design methods to solve the identified problem and implement it.
4. Compute the results obtained from the implementation and validate it using various test cases.
5. Demonstrate and present the project work in team.
6. Prepare the report of the project work.

PAPER PRESENTATION / INTERNSHIP (0:0:2)

Sub code : IS0118

Max. Marks: 100

Hrs/week : 02

Course Outcome for Paper Presentation

On Successful completion of the course, the students will be able to:

1. Compile the solved engineering problem with a publication

2. Propose a design of the problem formulated
3. Analyze the problem to be investigated

Course Outcome for Internship

On Successful completion of the course, the students will be able to:

1. Appraise the problem to be analyzed
2. Apply the knowledge of the engineering to solve the problem
3. Outline the conducted work with a report

SEMINAR (0:0:2)

Sub Code : IS0117

Max. Marks : 50

Hrs/Week : 02

Course Outcomes

On Successful completion of the course, the students will be able to:

1. Recognize relevance of the topic chosen
2. Explain current real world issues by doing literature survey
3. Identify the depth of the topic
4. Prepare presentations to convey the essence of the topic clearly.
5. Justify the comments and questionnaires from audience.