

## Institute of Engineering & Technology

### INFORMATION REGARDING ADMISSION IN GROUP 'B' PROGRAMMES

#### Master of Engineering (Part time) Programmes:

**Duration and seats:** 3 Yrs. (Part Time) – 10 seats

S.No.	Name of the Programme	Eligibility
1	Computer Engg. with Spl. in Software Engineering	A candidate seeking admission to the program should have passed with 55% (or Equivalent) in BE/BTech (or Equivalent) in an allied branch of engineering from recognized Institute/ University & must have Two Years Post Qualification Experience in the relevant field.
2	Electronics Engg. with Spl. in Digital Instrumentation	
3	Electronics Engg. with Spl.in Digital Communication	
4	Industrial Engineering & Management	
5	Mechanical Engg. with Spl. in Design & Thermal Engg.	
6	Information Technology with Spl. in Information Security.	

#### Fees Structure: ME programmes

##### ME Sponsored Part time courses:

Semester	Academic Fee	Development & Maintenance Fee	Students' Services Fee		Examination Fee	Total (Rs.)		Caution money (Refundable)
			Boys	Girls		Boys	Girls	
First	11000	17000	3300	3111	2500	33800	33611	4000
Second	11000	-	2911	2722	2500	16411	16222	-
Third	11000	17000	3300	3111	2500	33800	33611	-
Fourth	11000	-	2911	2722	2500	16411	16222	-
Fifth	11000	17000	3300	3111	2500	33800	33611	-
Sixth	11000	-	2911	2722	2500	16411	16222	-

## **Programmes in Mechanical Engineering department:**

### **ME - Specialization in Design & Thermal Engineering**

#### **OBJECTIVES:**

Apply scientific and engineering principles to analyze and design aspects of engineering systems that relate to conduction, convection and radiation heat transfer; use appropriate analytical and computational tools to investigate conduction, convection, radiation heat transfer, Tribology, Vibrations, CAD/CAM; are both competent and confident in interpreting results of investigations related to heat transfer and Design Engineering, recognize the broad technological and historical context of where Thermal Engineering & Design Engineering is important.

#### **OUTCOMES:**

Ability to apply knowledge of Thermal Engineering & Design Engineering to solve Engineering problems; ability to design, analyze, and interpret data; ability to identify, formulate, and solve related problems; recognition of the importance of Thermal Engineering & Design Engineering historically as well as in contemporary engineering systems.

### **ME - Specialization in Industrial Engineering & Management (IEM)**

#### **OBJECTIVES:**

The Industrial and Management Engineering focuses on the engineering and management of production and service systems, which include discrete manufacturing, process industry, banking and investment, and the public sector. Industrial engineers design, operate, and manage these systems for the purpose of improving efficiency, quality, productivity, and safety at minimum cost, while protecting people, property, and the environment.

#### **OUTCOMES:**

Due to their unique educational background, which consists of both engineering and management sciences, industrial engineers have the capability to make significant contributions to different organizations by performing a wide range of activities and tasks. IEM is considered as the most people-oriented discipline among various engineering disciplines. With strong background in operational analysis, Industrial engineers have the ability to manage complex projects and systems. The IEM program focuses on such areas as quality engineering and management, economical engineering decision support system, productivity and supply chain management, and ergonomics and safety.

## **Programmes in Electronics Engineering department:**

### **ME - Specialization in Digital Instrumentation**

#### **OBJECTIVES:**

1. To undertake knowledge and skill up-gradation of graduate students in the specialised area of digital Instrumentation.
2. Human resource development in the area of process design, instrumentation and automation to cater to the local and global needs.
3. To train students for undertaking advanced research and developmental activities in the area of instrumentation.
4. Enrichment of knowledge and expertise

#### **OUTCOMES:**

1. Generation of specialized manpower capable of providing indigenous solutions to the problems being faced by industrial units of the region and outside.
2. Manpower development with effective communication skills for teaching the graduate students and training manpower.
3. Highly skilled manpower development for undertaking research and development in the area of Instrumentation.

### **ME - Specialization in Digital Communication**

#### **OBJECTIVES:**

1. Indigenous technology development and skill up-gradation in the area of electronics design and communication technology.
2. Human resource development capable of solving complex problems in the area of Electronics and communication system.
3. To imbibe virtues of experimentation, product development, and devising innovative strategies in the area Communication Technology.
4. Enrichment of knowledge and expertise

#### **OUTCOMES:**

1. Generation of specialized manpower capable of providing indigenous solutions to the problems being faced by industrial units of the region and outside.
2. Manpower development with effective communication skills for teaching the graduate students and training manpower.
3. Skilled manpower development for undertaking research and development in the area of Electronics and communication technology.
4. Undertaking training programs for industry; arranging conferences and symposiums for dissemination

## **Programmes in Computer Engineering department:**

### **ME - Specialization in Software Engineering**

#### **Objectives**

Students learn the concepts of software engineering and focus on principles of systems analysis, design, implementation and testing. The course focuses on the various aspects of cost-effective software development of high-quality software. The course also has lab assignments, exposure to case studies and projects to improve their practical skills. Subject such as, Advanced Computer Architecture, Computer Networks and Software Constructions are based on the modern and recent development in the internal workings of the computer systems, designing and implementing a computer network and develop programming and coding skills. The subjects like object oriented analysis, object oriented design and software construction help the students to analyse, design and develop a software system. These skills are necessary to plan and conduct complex systems development projects to meet customer needs and integrate software solutions into an evolving business environment.

#### **OUTCOMES**

The development of professional skills, and ethics in students. The course provides conceptual frameworks, methods, technologies and hands-on experience necessary for software development. All this forms a basis for a career in the software industry. Students also acquire specialised knowledge of specific topics, particularly in the area of software development and database systems, and networking. After completion of the course on M.E ( Software Engineering ) a students should be able to solve specific problems alone or in teams, manage a project from beginning to end, work independently as well as in teams, define, formulate and analyse a problem.

## **Programmes in IT Engineering department:**

### **ME - Specialization in Information Security**

#### **Objectives**

The objective of the course is to provide students with an overall understanding of information security and to highlight the importance of network and information security in software systems. The course covers wide aspects of information security. The core subjects like advance computer systems, Advance computer networks and data security make strong foundation. Subjects like security in e-commerce, risk assessment and computer forensics, Information security management etc. are the specialized areas.

## OUTCOMES

The course provides conceptual frameworks, methods, technologies and hands-on experience necessary to become IT security specialist. Students are exposed to specialised knowledge and skills in information security. There is acute shortage of Information security engineers and architects. Students acquire adequate knowledge and skills to act as IT security architect or specialist after completion of the course on M.E.(Information Technology) with specialization on Information security.

### M. E. Electronics (Spl in Digital Communication) (PART TIME) Curriculum & Syllabus Batch 2015– 2016 and onwards

S. No.	Category	No. of Credits					
		SEM I	SEM II	SEM III	SEM IV	SEM V	SEM VI
1.	Courses Compulsory	10	5	10	5		
2.	Generic Elective	4	-	4	-		
3.	Programme Elective	-	5	-	5		
4.	Skill development	-	2	-	2		
5.	Seminar/ Workshop	-	2	-	2		
6.	Dissertation Phase		-		-	12	12
<b>Actual Credits per semester</b>		<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>12</b>	<b>12</b>
<b>Total actual Programme Credits per semester</b>							<b>80</b>
7.	Virtual Credited Comprehensive Viva	2	2	2	2	4	4
<b>Total Credits per semester</b>		<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>
<b>Total Programme Credits per semester</b>							<b>96</b>

**M. E. Electronics (Spl in Digital Communication) (PART TIME)**  
**Curriculum & Syllabus**  
**Batch 2015– 2016 and onwards**

<b>SEM I</b>				
<b>S.NO</b>	<b>Sub Code</b>	<b>Sub Name</b>	<b>Number of Credit L-T-P</b>	<b>SubType</b>
1.	DCP1C1	Modern Communication System	3-1-1	PC1
2.	DCP1C2	Embedded System using ARM Microcontroller	3-1-1	PC2
3.	DCP1Gx	Generic Elective I	3-1-0	GE1
4.	DCP1V1	Comprehensive Viva I	0-0-2	
<b>Total Credit for SEM I</b>			<b>14 actual + 2 Virtual credits</b>	
<b>SEM IIL-T-P</b>				
1.	DCP2C3	Advance Computer Networking	3-1-1	PC3
2.	DCP2Ex	Elective I	3-1-1	PE1
3.	DCP2W1	Seminar/ Workshop/Research Tool	0-2-0	
4.	ASP2S1	Soft Skills -1	2-0-0	
5.	DCP2V2	Comprehensive Viva II	0-0-2	
<b>Total Credit for SEM II</b>			<b>14 actual + 2 Virtual credits</b>	
		<b>List of Generic Elective I</b>	<b>L-T-P</b>	
1.	DCP1G1	Advance System Design	3-1-0	
2.	DCP1G2	Wireless Sensor Network	3-1-0	
3.	DCP1G3	Advance Digital Signal Processing	3-1-0	
4.	DCP1G4	Information Theory and Coding	3-1-0	
		<b>List of Elective I</b>	<b>L-T-P</b>	
1.	DCP2E1	Satellite Communication	3-1-1	
2.	DCP2E2	Object Oriented Programming	3-1-1	
3.	DCP2E3	Nanodevices&Nanosensors	3-1-1	
4.	DCP2E4	Software Engineering	3-1-1	
<b>SEM IIII-T-P</b>				
1.	DCP3C1	Modelling and Simulation	3-1-1	PC4
2.	DCP3C2	Mobile Communication Networks	3-1-1	PC5
3.	DCP3Gx	Generic Elective II	3-1-0	GE2
4.	DCP3V3	Comprehensive Viva III	0-0-2	
<b>Total Credit for SEM III</b>			<b>14 actual + 2 Virtual credits</b>	
<b>SEM IVL-T-P</b>				
1.	DCP4C3	System Design Using Verilog	3-1-1	PC6
2.	DCP4Ex	Elective II	3-1-1	PE2
3.	DCP4W2	Seminar/ Res. Tool/Research Tool	0-2-0	
4.	ASP4S2	Soft Skills -2	2-0-0	
5.	DCP3V4	Comprehensive Viva IV	0-0-2	
<b>Total Credit for SEM IV</b>			<b>14 actual + 2 Virtual credits</b>	

**M. E. Electronics (Spl in Digital Communication) (PART TIME)**  
**Curriculum & Syllabus**  
**Batch 2015– 2016 and onwards**

		<b>List of Generic Elective II</b>	<b>L-T-P</b>	
1.	DCP3G1	Broadband Access Technology	3-1-0	
2.	DCP3G2	Embedded RTOS	3-1-0	
3.	DCP3G3	Advance Antenna System	3-1-0	
4.	DCP3G4	Industrial Communication	3-1-0	
		<b>List of Elective II</b>	<b>L-T-P</b>	
1.	DCP4E1	Analog and Digital CMOS Circuit Design	3-1-1	
2.	DCP4E2	Network Security	3-1-1	
3.	DCP4E3	Mobile Computing	3-1-1	
4.	DCP4E4	Software testing and Quality assurance	3-1-1	

<b>SEM V L-T-P</b>				
1.	DCP5D1	Dissertation Phase I	0-0-12	
2.	DCP5V5	Comprehensive Viva V	0-0-4	
<b>Total Credit for SEM V</b>			<b>12 actual + 4 Virtual credits</b>	
<b>SEM VI</b>			<b>L-T-P</b>	
1.	DCP6D2	Dissertation Phase II	0-0-12	
2.	DCP6V6	Comprehensive Viva IV	0-0-4	
<b>Total Credit for SEM VI</b>			<b>12 actual + 4 Virtual credits</b>	
<b>Total Credit</b>			<b>80 actual + 16 Virtual credits</b>	

**M. E. Electronics (Specialization in Digital Instrumentation)**  
**(PART TIME)**  
**Curriculum & Syllabus**  
**Batch 2015– 2016 and onwards**

S. No.	Category	No. of Credits					
		SEM I	SEM II	SEM III	SEM IV	SEM V	SEM VI
1.	Course Compulsory	10	5	10	5		
2.	Generic Elective	4	-	4	-		
3.	Programme Elective	-	5	-	5		
4.	Skill	-	2	-	2		

	development						
5.	Seminar/ Workshop	-	2	-	2		
6.	Dissertation Phase		-			12	12
<b>Actual Credits per semester</b>		<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>12</b>	<b>12</b>
<b>Total actual Programme Credits per semester</b>							<b>80</b>
7.	Virtual Credited Comprehensive Viva	2	2	2	2	4	4
<b>Total Credits per semester</b>		<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>
<b>Total Programme Credits per semester</b>							<b>96</b>

**M.E Electronics (Specialization in Digital Instrumentation)  
(Part Time)  
Curriculum & Syllabus  
Proposed Scheme for CBCS**

<b>SEM I</b>				
<b>S.NO</b>	<b>Sub Code</b>	<b>Sub Name</b>	<b>Number of Credit L-T-P</b>	<b>SubType</b>
1.	DIP1C1	Industrial Transducer & Smart Sensors	3-1-1	PC1
2.	DIP1C2	Embedded System using ARM Microcontroller	3-1-1	PC2
3.	DIP1GX	Generic Elective I	3-1-0	GE1
4.	DIP1V1	Comprehensive Viva I	0-0-2	
<b>Total Credit for SEM I</b>			<b>14 actual + 2 Virtual credits</b>	
<b>SEM II</b>				
<b>L-T-P</b>				
1.	DIP2C3	Modern Control System	3-1-1	PC3
2.	DIP2EX	Elective I	3-1-1	PE1
3.	ASP2S1	Soft Skill 1	2-0-0	
4.	DIP2W1	Seminar / Workshop / Research Tool	0-2-0	
5.	DIP2V2	Comprehensive Viva II	0-0-2	
<b>Total Credit for SEM II</b>			<b>14 actual + 2 Virtual credits</b>	
<b>List of Generic Elective I</b>			<b>L-T-P</b>	
1.	DIP1G1	Advance System Design	3-1-0	
2.	DIP1G2	Wireless Sensor Network	3-1-0	
3.	DIP1G3	Advanced Communication Networks	3-1-0	
4.	DIP1G4	Medical Instrumentation	3-1-0	
<b>List of Elective I</b>				



1.	DIP2E1	Fuzzy Logic & Neural Network	3-1-1	
2.	DIP2E2	Object Oriented Programming	3-1-1	
3.	DIP2E3	Nano Devices and Nano sensors	3-1-1	
4.	DIP2E4	Advance Digital Signal Processing	3-1-1	
<b>SEM III-L-T-P</b>				
1.	DIP3C1	Digital Image Processing	3-1-1	PC4
2.	DIP3C2	Process Instrumentation & Industrial Control	3-1-1	PC5
3.	DIP3GX	Generic Elective II	3-1-0	GE2
4.	DIP3V3	Comprehensive Viva III	0-0-2	
<b>Total Credit for SEM III</b>			<b>14 actual + 2 Virtual credits</b>	
<b>SEM IV L-T-P</b>				
1.	DIP4C3	System Design Using Verilog	3-1-1	PC6
2.	DIP4EX	Elective II	3-1-1	PE2
3.	ASP4S2	Soft Skill 2	2-0-0	
4.	DIP4W2	Seminar / Workshop / Research Tool	0-2-0	
5.	DIP4V4	Comprehensive Viva IV	0-0-2	
<b>Total Credit for SEM IV</b>			<b>14 actual + 2 Virtual credits</b>	
<b>List of Generic Elective II</b>			<b>L-T-P</b>	
1.	DIP3G1	Software Engineering	3-1-0	
2.	DIP3G2	Embedded RTOS	3-1-0	
3.	DIP3G3	Modelling and Simulation	3-1-0	
4.	DIP3G4	Industrial Communication	3-1-0	

**M.E Electronics (Specialization in Digital Instrumentation)  
(Part Time)  
Curriculum & Syllabus  
Proposed Scheme for CBCS**

<b>List of Elective II</b>			<b>L-T-P</b>	
1.	DIP4E1	Analog and Digital VLSI Circuit Design	3-1-1	
2.	DIP4E2	Analytical Instrumentation	3-1-1	
3.	DIP4E3	Optical and Laser Instrumentation	3-1-1	
4.	DIP4E4	Advanced Industrial Drives and Control	3-1-1	
<b>SEMVL-T-P</b>				
1.	DIP5D1	Dissertation Phase I	0-0-12	
2.	DIP5V5	Comprehensive Viva V	0-0-4	
<b>Total Credit for SEM V</b>			<b>12 actual + 4 Virtual credit</b>	
<b>SEMVIL-T-P</b>				
1.	DIP6D2	Dissertation Phase II	0-0-12	
2.	DIP6V6	Comprehensive Viva VI	0-0-4	
<b>Total Credit for SEM VI</b>			<b>12 actual + 4 Virtual credits</b>	
<b>Total Credit</b>			<b>80 actual + 16Virtual credits</b>	

**M. E. Mechanical Engineering(Design & Thermal) (PART TIME)**  
**Curriculum & Syllabus**  
**Batch 2015– 2016 and onwards**

S. No.	Category	No. of Credits					
		SEM I	SEM II	SEM III	SEM IV	SEM V	SEM VI
1.	Course Compulsory	10	5	10	5		
2.	Generic Elective	4	-	4	-		
3.	Programme Elective	-	5	-	5		
4.	Skill development	-	2	-	2		
5.	Seminar/ Workshop	-	2	-	2		
6.	Dissertation Phase		-		-	12	12
<b>Actual Credits per semester</b>		<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>12</b>	<b>12</b>
<b>Total actual Programme Credits per semester</b>							<b>80</b>
7.	Virtual Credited Comprehensive Viva	2	2	2	2	4	4
<b>Total Credits per semester</b>		<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>
<b>Total Programme Credits per semester</b>							<b>96</b>

**M. E. Mechanical Engineering(Design & Thermal) (PART TIME)**  
**Curriculum & Syllabus**  
**Batch 2015– 2016 and onwards**

SEM I				
S.NO	Sub Code	Sub Name	Number of Credit L-T-P	SubType
1.	DTP1C1	Tribology	3-1-1	PC1
2.	DTP1C2	Design of Internal Combustion Engine Systems	3-1-1	PC2
3.	DTP1Gx	Generic Elective I	3-1-0	GE1

4.	DTP1V1	Comprehensive Viva I	0-0-2	
<b>Total Credit for SEM I</b>			<b>14 actual + 2 Virtual credits</b>	
<b>SEM IIL-T-P</b>				
1.	DTP2C3	Advanced Machine Design	3-1-1	PC3
2.	DTP2Ex	Elective I	3-1-1	PE1

<b>List of Elective II</b>
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3.	DTP2W1	Seminar/ Res. Tool/Work Shop-1	0-2-0	
4.	ASP2S1	Soft Skills -1	2-0-0	
5.	DTP2V2	Comprehensive Viva II	0-0-2	
<b>Total Credit for SEM II</b>			<b>14 actual + 2 Virtual credits</b>	

<b>List of Generic Elective IIL-T-P</b>
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1.	DTP1G1	Advanced Thermodynamics	3-1-0	
2.	DTP1G2	Non Conventional Energy Systems	3-1-0	
3.	DTP1G3	Management Information System	3-1-0	
4.	DTP1G4	Finite Element Analysis	3-1-0	

<b>List of Elective I L-T-P</b>
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1.	DTP2E1	Advanced Mechanics of Solids	3-1-1	
2.	DTP2E2	Fatigue Creep and Fracture	3-1-1	
3.	DTP2E3	Mechanism and Robot Kinematics	3-1-1	
4.	DTP2E4	Thermal Systems : Simulation and Design	3-1-1	

<b>SEM IIIIL-T-P</b>
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1.	DTP3C1	Machinery Fault Diagnosis and Signal Processing	3-1-1	PC4
2.	DTP3C2	Advanced Refrigeration and Air Conditioning	3-1-1	PC5
3.	DTP3Gx	Generic Elective II	3-1-0	GE2
4.	DTP3V3	Comprehensive Viva III	0-0-2	

<b>Total Credit for SEM III</b>			<b>14 actual + 2 Virtual credits</b>	
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<b>SEM IVL-T-P</b>
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1.	DTP4C3	Computer Aided Design	3-1-1	PC6
2.	DTP4Ex	Elective II	3-1-1	PE2
3.	DTP4W2	Seminar/ Res. Tool/Work Shop-2	0-2-0	
4.	ASP4S2	Soft Skills -2	2-0-0	
5.	DTP4V4	Comprehensive Viva IV	0-0-2	

<b>Total Credit for SEM IV</b>			<b>14 actual + 2 Virtual credits</b>	
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<b>List of Generic Elective II</b>
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1.	DTP3G1	Advanced Heat Transfer	3-1-0	
2.	DTP3G2	Rapid Prototyping	3-1-0	
3.	DTP3G3	Cogeneration and Waste Heat Recovery	3-1-0	
4.	DTP3G4	Mechatronics in Manufacturing Systems	3-1-0	

**M. E. Mechanical Engineering(Design & Thermal) (PART TIME)  
Curriculum & Syllabus  
Batch 2015– 2016 and onwards**

1.	DTP4E1	Machine Vibrations Analysis	3-1-0	
2.	DTP4E2	Experimental Stress Analysis	3-1-0	
3.	DTP4E3	Applied Elasticity and Plasticity	3-1-0	
4.	DTP4E4	Automotive Systems: Analysis and Design	3-1-0	

**M. E. Mechanical Engineering (Industrial Engineering & Management) (PART TIME)**  
**Curriculum & Syllabus**  
**Batch 2015– 2016 and onwards**

<b>SEM V L-T-P</b>				
1.	DTP5D1	Dissertation Phase I	0-0-12	
2.	DTP5V5	Comprehensive Viva V	0-0-4	
<b>Total Credit for SEM V</b>			<b>12 actual + 4 Virtual credits</b>	
<b>SEM VI</b>			<b>L-T-P</b>	
1.	DTP6D2	Dissertation Phase II	0-0-12	
2.	DTP6V6	Comprehensive Viva IV	0-0-4	
<b>Total Credit for SEM VI</b>			<b>12 actual + 4 Virtual credits</b>	

S. No.	Category	No. of Credits					
		SEM I	SEM II	SEM III	SEM IV	SEM V	SEM VI
1.	Course Compulsory	10	5	10	5		
2.	Generic Elective	4	-	4	-		
3.	Programme Elective	-	5	-	5		
4.	Skill development	-	2	-	2		
5.	Seminar/ Workshop	-	2	-	2		
6.	Dissertation Phase		-		-	12	12
<b>Actual Credits per semester</b>		<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>12</b>	<b>12</b>
<b>Total actual Programme Credits per semester</b>							<b>80</b>
7.	Virtual Credited	2	2	2	2	4	4

	Comprehensive Viva						
<b>Total Credits per semester</b>		<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>
<b>Total Programme Credits per semester</b>							<b>96</b>

**M. E. Mechanical Engineering(Industrial Engineering & Management) (PART TIME)  
Curriculum & Syllabus  
Batch 2015– 2016 and onwards**

<b>SEM I</b>				
<b>S.NO</b>	<b>Sub Code</b>	<b>Sub Name</b>	<b>Number of Credit L-T-P</b>	<b>Sub Type</b>
1.	IMP1C1	Productivity & Technology Management	3-1-1	PC1
2.	IMP1C2	Quantitative Techniques for Management	3-1-1	PC2
3.	IMP1Gx	Generic Elective I	3-1-0	GE1
4.	IMP1V1	Comprehensive Viva I	0-0-2	
<b>Total Credit for SEM I</b>			<b>14 actual + 2 Virtual credits</b>	
<b>SEM II</b>				
1.	IMP2C3	Production & Operations Management	3-1-1	PC3
2.	IMP2Ex	Elective I	3-1-1	PE1
3.	IMP2W1	Seminar/ Res. Tool/Work Shop-1	0-2-0	
4.	ASP2S1	Soft Skills -1	2-0-0	
5.	IMP2V2	Comprehensive Viva II	0-0-2	
<b>Total Credit for SEM II</b>			<b>14 actual + 2 Virtual credits</b>	
<b>List of Generic Elective I</b>				
1.	IMP1G1	Principles & Practices of Management	3-1-0	
2.	IMP1G2	Human Resource management	3-1-0	
3.	IMP1G3	e –Business & Commerce	3-1-0	
<b>List of Elective I</b>				
1.	IMP2E1	Statistical Quality Control and Total Quality Management	3-1-1	
2.	IMP2E2	Strategic Management	3-1-1	
3.	IMP2E3	Business Process Reengineering	3-1-1	
<b>SEM III</b>				
1.	IMP3C1	Financial Management	3-1-1	PC4
2.	IMP3C2	Materials Management	3-1-1	PC5
3.	IMP3Gx	Generic Elective II	3-1-0	GE2
4.	IMP3V3	Comprehensive Viva III	0-0-2	
<b>Total Credit for SEM III</b>			<b>14 actual + 2 Virtual credits</b>	
<b>SEM IVL-T-P</b>				
1.	IMP4C3	Supply Chain Management	3-1-1	PC6
2.	IMP4Ex	Elective II	3-1-1	PE2
3.	IMP4W2	Seminar/ Res. Tool/Work Shop-2	0-2-0	
4.	ASP4S2	Soft Skills -2	2-0-0	
5.	IMP4V4	Comprehensive Viva IV	0-0-2	

Total Credit for SEM IV			14 actual + 2 Virtual credits	
		<b>List of Generic Elective II</b>		
1.	IMP3G1	Project Management	3-1-0	
2.	IMP3G2	Enterprise Resource Planning	3-1-0	
		<b>List of Elective II</b>		
1.	IMP4E1	Marketing Management	3-1-1	
2.	IMP4E2	Product Design And Manufacturing	3-1-1	
3.	IMP4E3	Customer Relationship Management	3-1-1	
4.	IMP4E4	Industrial Marketing	3-1-1	

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<b>SEM V L-T-P</b>				
1.	IMP5D1	Dissertation Phase I	0-0-12	
2.	IMP5V5	Comprehensive Viva V	0-0-4	
<b>Total Credit for SEM V</b>			<b>12 actual + 4 Virtual credits</b>	
<b>SEM VI</b>			<b>L-T-P</b>	
1.	IMP6D2	Dissertation Phase II	0-0-12	
2.	IMP6V6	Comprehensive Viva IV	0-0-4	
<b>Total Credit for SEM VI</b>			<b>12 actual + 4 Virtual credits</b>	
<b>Total Credit</b>			<b>80 actual + 16 Virtual credits</b>	

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<b>S. No.</b>	<b>Category</b>	<b>No. of Credits</b>					
		<b>SEM I</b>	<b>SEM II</b>	<b>SEM III</b>	<b>SEM IV</b>	<b>SEMV</b>	<b>SEM VI</b>
1.	Course Compulsory	10	5	10	5		
2.	Generic Elective	4	-	4	-		
3.	Programme Elective	-	5	-	5		
4.	Skill development	-	2	-	2		
5.	Seminar/ Workshop	-	2	-	2		
6.	Dissertation Phase		-		-	12	12
<b>Actual Credits per semester</b>		<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>12</b>	<b>12</b>
<b>Total actual Programme Credits per semester</b>							<b>80</b>

7.	Virtual Credited Comprehensive Viva	2	2	2	2	4	4
<b>Total Credits per semester</b>		<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>
<b>Total Programme Credits per semester</b>							<b>96</b>

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<b>SEM I</b>				
S.NO	Sub Code	Sub Name	Number of Credit L-T-P	SubType
1.	ISP1C1	Advanced Algorithms	3-1-1	PC1
2.	ISP1C2	Secure Computing Techniques	3-1-1	PC2
3.	ISP1Gx	Generic Elective I	3-1-0	GE1
4.	ISP1V1	Comprehensive Viva I	0-0-2	
<b>Total Credit for SEM I</b>			<b>14 actual + 2 Virtual credits</b>	
<b>SEM II</b>				
			<b>L-T-P</b>	
1.	ISP2C1	Advanced Computer Networks	3-1-1	PC3
2.	ISP2EX	Elective I	3-1-1	PE1
3.	ISP2W1	Seminar/ Res. Tool	0-2-0	
4.	ASP2S1	Soft Skills -1	2-0-0	
5.	ISP2V2	Comprehensive Viva II	0-0-2	
<b>Total Credit for SEM II</b>			<b>14 actual + 2 Virtual credits</b>	
<b>List of Generic Elective I</b>			<b>L-T-P</b>	
1.	ISP1G1	Advanced Data Base Management Systems	3-1-0	
2.	ISP1G2	Complexity of Security Algorithms	3-1-0	
3.	ISP1G3	Agent Technology	3-1-0	
<b>List of Elective I</b>			<b>L-T-P</b>	
1.	ISP2E1	Data Security	3-1-1	
2.	ISP2E2	Information Theory and Coding	3-1-1	
3.	ISP2E3	Data Compression and Stagnography	3-1-1	
<b>SEM III</b>				
			<b>L-T-P</b>	
1.	ISP3C1	Information Security Management	3-1-1	PC4
2.	ISP3C2	Digital Forensics and Investigations	3-1-1	PC5
3.	ISP3Gx	Generic Elective II	3-1-0	GE2
4.	ISP3V3	Comprehensive Viva III	0-0-2	
<b>Total Credit for SEM III</b>			<b>14 actual + 2 Virtual credits</b>	
<b>SEM IV</b>				
			<b>L-T-P</b>	
1.	ISP4C1	Secure Wireless Networks	3-1-1	PC6
2.	ISP4Ex	Elective II	3-1-1	PE2
3.	ISP4W2	Seminar/ Res. Tool	0-2-0	
4.	ASP4S2	Soft Skills -2	2-0-0	



5.	ISP4V4	Comprehensive Viva IV	0-0-2	
<b>Total Credit for SEM IV</b>			<b>14 actual + 2 Virtual credits</b>	
<b>List of Generic Elective II</b>			<b>L-T-P</b>	
1.	ISP4GE1	Cloud Computing	3-1-0	
2.	ISP4GE2	Secure Software Engineering	3-1-0	
3.	ISP4GE3	Cyber Crime and Information Warfare	3-1-0	
<b>List of Elective II</b>			<b>L-T-P</b>	
1.	ISP4E1	Biometric Systems & Security	3-1-1	
2.	ISP4E2	Applied Cryptography	3-1-1	
3.	ISP4E3	Trust management in E- Commerce	3-1-1	

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<b>SEM V L-T-P</b>				
1.	ISP5D1	Dissertation Phase I	0-0-12	
2.	ISP5V5	Comprehensive Viva V	0-0-4	
<b>Total Credit for SEM V</b>			<b>12 actual + 4 Virtual credits</b>	
<b>SEM VI</b>			<b>L-T-P</b>	
1.	ISP6D2	Dissertation Phase II	0-0-12	
2.	ISP6V6	Comprehensive Viva IV	0-0-4	
<b>Total Credit for SEM VI</b>			<b>12 actual + 4 Virtual credits</b>	
<b>Total Credit</b>			<b>80 actual + 16 Virtual credits</b>	

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S. No.	Category	No. of Credits					
		SEM I	SEM II	SEM III	SEM IV	SEM V	SEM VI
1.	Course Compulsory	10	5	10	5		
2.	Generic Elective	4	-	4	-		
3.	Programme Elective	-	5	-	5		
4.	Skill development	-	2	-	2		
5.	Seminar/ Workshop/ Research Tool	-	2	-	2		
6.	Dissertation Phase		-		-	12	12
<b>Actual Credits per semester</b>		<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>12</b>	<b>12</b>

<b>Total actual Programme Credits per semester</b>							<b>80</b>
7.	Virtual Credited Comprehensive Viva	2	2	2	2	4	4
<b>Total Credits per semester</b>		<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>
<b>Total Programme Credits per semester</b>							<b>96</b>

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Engineering(PART TIME)  
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<b>SEM I</b>				
<b>S.NO</b>	<b>Sub Code</b>	<b>Sub Name</b>	<b>Number of Credit L-T-P</b>	<b>SubType</b>
1.	SEP1C1	Advanced Algorithms	3-1-1	PC1
2.	SEP1C2	Object Oriented Analysis & Design	3-1-1	PC2
3.	SEP1Gx	Generic Elective I	3-1-0	GE1
4.	SEP1V1	Comprehensive Viva I	0-0-2	
<b>Total Credit for SEM I</b>			<b>14 actual + 2 Virtual credits</b>	
<b>SEM IIL-T-P</b>				
1.	SEP2C3	Software Construction	3-1-1	PC3
2.	SEP2Ex	Elective I	3-1-1	PE1
3.	SEP2W1	Seminar/ Workshop/Research Tool	0-2-0	
4.	ASP2S1	Soft Skills -1	2-0-0	
5.	SEP2V2	Comprehensive Viva II	0-0-2	
<b>Total Credit for SEM II</b>			<b>14 actual + 2 Virtual credits</b>	
<b>List of Generic Elective I</b>			<b>L-T-P</b>	
1.	SEP1G1	Soft Computing	3-1-0	
2.	SEP1G2	Distributed Operating System	3-1-0	
3.	SEP1G3	Advance Computer Architecture	3-1-0	
<b>List of Elective I</b>			<b>L-T-P</b>	
1.	SEP2E1	Database Engineering	3-1-1	
2.	SEP2E2	Big Data Analytics	3-1-1	
3.	SEP2E3	Secure Software Engineering	3-1-1	
<b>SEM IIII-T-P</b>				
1.	SEP3C1	Software Project Planning and Management	3-1-1	PC4
2.	SEP3C2	Design Pattern	3-1-1	PC5
3.	SEP3Gx	Generic Elective II	3-1-0	GE2
4.	SEP3V3	Comprehensive Viva III	0-0-2	
<b>Total Credit for SEM III</b>			<b>14 actual + 2 Virtual credits</b>	

<b>SEM IVL-T-P</b>				
1.	SEP4C3	Software Testing and Quality Assurance	3-1-1	PC6
2.	SEP4Ex	Elective II	3-1-1	PE2
3.	SEP4W2	Seminar/ Res. Tool/Research Tool	0-2-0	
4.	ASP4S2	Soft Skills -2	2-0-0	
5.	SEP4V4	Comprehensive Viva IV	0-0-2	
<b>Total Credit for SEM IV</b>			<b>14 actual + 2 Virtual credits</b>	

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		<b>List of Generic Elective II</b>	<b>L-T-P</b>	
1.	SEP3G1	Data Mining & Warehousing	3-1-0	
2.	SEP3G2	Cloud Computing	3-1-0	
3.	SEP3G3	Simulation and Modelling	3-1-0	
		<b>List of Elective II</b>	<b>L-T-P</b>	
1.	SEP4E1	Speech And Language Processing	3-1-1	
2.	SEP4E2	Aspect Oriented Software Engineering	3-1-1	
3.	SEP4E3	Machine Learning	3-1-1	

<b>SEM VL-T-P</b>				
1.	SEP5D1	Dissertation Phase I	0-0-12	
2.	SEP5V5	Comprehensive Viva V	0-0-4	
<b>Total Credit for SEM V</b>			<b>12 actual + 4 Virtual credits</b>	
<b>SEM VI</b>			<b>L-T-P</b>	
1.	SEP6D2	Dissertation Phase II	0-0-12	
2.	SEP6V6	Comprehensive Viva IV	0-0-4	
<b>Total Credit for SEM VI</b>			<b>12 actual + 4 Virtual credits</b>	
<b>Total Credit</b>			<b>80 actual + 16 Virtual credits</b>	