

**SCHEME OF INSTRUCTION & EXAMINATION**  
**B.E. (Information Technology) III – SEMESTER**

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
<b>Theory Courses</b>										
1	HS 104 EG	Effective Technical Communication in English	3	-	-	3	30	70	3	3
2	HS 105 CM	Finance and Accounting	3	1	-	3	30	70	3	3
3	BS 207 MT	Mathematics III (Probability & Statistics)	3	1	-	3	30	70	3	3
4	ES 306 EC	Basic Electronics	3	-	-	3	30	70	3	3
5	ES 303 EC	Digital Electronics	3	1	-	3	30	70	3	3
6	PC 301 IT	Data Structures	3	-	-	3	30	70	3	3
7	PC 302 IT	Mathematical Foundations of Information Technology	3	-	-	3	30	70	3	3
<b>Practical/ Laboratory Courses</b>										
8	ES 351EC	Basic Electronics Lab	-	-	2	2	25	50	3	1
9	PC 351 IT	Data Structures Lab	-	-	2	2	25	50	3	1
10	PC 352 IT	IT Workshop Lab	-	-	2	2	25	50	3	1
			<b>21</b>	<b>3</b>	<b>06</b>	<b>30</b>	<b>285</b>	<b>640</b>		<b>24</b>

**SCHEME OF INSTRUCTION & EXAMINATION**  
**B.E. (Information Technology) IV – SEMESTER**

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
<b>Theory Courses</b>										
1	HS 103 ME	Operations Research	3	1	-	3	30	70	3	3
2	ES 305EC	Signals and Systems	3	1	-	3	30	70	3	3
3	PC 401 IT	JAVA Programming	3	1	-	3	30	70	3	3
4	PC 402 IT	Database Systems	3	1	-	3	30	70	3	3
5	PC 403 IT	Computer Organization and Microprocessor	3	1	-	3	30	70	3	3
6	PC 404 IT	Data Communications	3	1	-	3	30	70	3	3
<b>Practical/ Laboratory Courses</b>										
7	PC 451 IT	Microprocessor Lab	-	-	2	2	25	50	3	1
8	PC 452 IT	JAVA Programming Lab	-	-	2	2	25	50	3	1
9	PC 453 IT	Database Systems Lab	-	-	2	2	25	50	3	1
			<b>18</b>	<b>06</b>	<b>06</b>	<b>30</b>	<b>255</b>	<b>570</b>		<b>21</b>

## SCHEME OF INSTRUCTION & EXAMINATION B.E (INFORMATION TECHNOLOGY)

### V Semester

S. No.	CourseCode	Course Title	Scheme of Instruction			Contact Hrs /Week	Scheme of Examination		Duration in Hrs	Credits	
							MaximumMarks	CIE			SEE
			Periods Per week								
			L	T	D/P						
<b>Theory Course</b>											
1.	PC501IT	Automata Theory	3	1	-	4	30	70	3	3	
2.	PC502IT	Operating Systems	3	1	-	4	30	70	3	3	
3.	PC503IT	Artificial Intelligence	3	1	-	4	30	70	3	3	
4.	PC504IT	Computer Networks	3	1	-	4	30	70	3	3	
5.	PC505IT	Software Engineering	3	-	-	3	30	70	3	3	
6.	PE-1	Professional Elective-I	3	-	-	3	30	70	3	3	
<b>Practical/Laboratory Courses</b>											
7.	PC551IT	Computer Networks and Operating System Lab	-	-	3	3	25	50	3	1.5	
8.	PC552IT	Artificial Intelligence Lab	-	-	2	2	25	50	3	1	
9.	PC553IT	Web Application Development Lab	-	-	2	2	25	50	3	1	
Total			18	04	07	32	255	570	-	21.5	

**PC:** Professional Core; **PE:** Professional Elective; **HS:** Humanities and social Science ;

**MC:** Mandatory ; **L:**Lecture; **T:**Tutorial ; **P:**Practical

**CIE:** Continuous Internal Evaluation ; **SEE:** Semester End Examination(Univ.Exam)

**Note:**

- Each contact hour is one clock hour.
- The duration of practical class is two hours , however it can be extended whenever necessary to enable the students to complete the program.

<b>Profession Elective – I</b>	
<b>Course Code</b>	<b>Course Title</b>
PE 511 IT	Object oriented Analysis and Design
PE 512 IT	Mobile Computing
PE 513 IT	Distributed Systems
PE 514 IT	Data Mining
PE 515 IT	Computer Graphics

**SCHEME OF INSTRUCTION & EXAMINATION**  
**B.E (INFORMATION TECHNOLOGY)**  
**VI Semester**

S.No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	D/P	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Course										
1.	PC601IT	Embedded Systems	3	1	-	4	30	70	3	3
2.	PC602IT	Design and Analysis of Algorithms	3	1	-	4	30	70	3	3
3.	PC603IT	Machine Learning	3	1	-	4	30	70	3	3
4.	PC604IT	Network Security and cryptography	3	-	-	3	30	70	3	3
5	OE-1	Open Elective-1	3	-	-	3	30	70	3	3
6.	PE-II	Professional Elective-II	3	-	-	3	30	70	3	3
Practical/Laboratory Course										
7.	PC651IT	Embedded Systems Lab	-	-	2	2	25	50	3	1
8.	PC652IT	Machine Learning Lab	-	-	2	2	25	50	3	1
9.	PC653IT	Mobile Application Development Lab	-	-	2	2	25	50	3	1
8.	PW654IT	Mini Project-I	-	-	2	2	25	50	3	1
Total			18	03	8	29	280	620	-	22

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<b>Profession Elective – II</b>	
<b>Course Code</b>	<b>Course Title</b>
PE 621 IT	Software Testing and Quality Assurance
PE 622 IT	Adhoc Sensor Networks
PE 623 IT	Cloud Computing
PE 624 IT	Data Science
PE 625 IT	Information Storage and Management

<b>Open Elective 1</b>		
<b>Sl.No</b>	<b>Code</b>	<b>Name of Subject</b>
1	<b>OE601 EE</b>	Electrical Energy Conservation and Safety (Not for EEE & EIE Students)
2	<b>OE602 EE</b>	Reliability Engineering (Not for EEE & EIE Students)
3	<b>OE611 AE</b>	Basics of Automobile Engineering (Not for Mech./Prod./Automobile Engg. students)
4	<b>OE611 ME</b>	Industrial Robotics (Not for Mech./Prod./Automobile Engg. students)
5	<b>OE601 EG</b>	Soft Skills & Interpersonal Skills
6	<b>OE602 MB</b>	Human Resource Development and Organizational Behaviour
7	<b>OE601 LW</b>	Cyber Law and Ethics
8	<b>OE601 CS</b>	OOP using Java (Not for CSE, IT, AD, AM, DS and CB Students)
9	<b>OE602 CS</b>	Data Structures & Algorithms (Not for CSE, IT, AD, AM, DS and CB Students)
10	<b>OE601 IT</b>	Operating Systems (Not for CSE, IT, AD, AM, DS and CB Students)
11	<b>OE601 AD</b>	Principles of Artificial Intelligence (Not for CSE, IT, AD, AM, DS and CB Students)
12	<b>OE601 AM</b>	Principles of Machine Learning (Not for CSE, IT, AD, AM, DS and CB Students)
13	<b>OE601 DS</b>	Data Science (Not for CSE, IT, AD, AM, DS and CB Students)
14	<b>OE601 CB</b>	Principles of IOT (Not for CSE, IT, AD, AM, DS and CB Students)
15	<b>OE601 CE</b>	Disaster Mitigation (Not for Civil Engg. Students)
16	<b>OE601 EC</b>	Principles of Electronic Communication (Not for ECE students)
17	<b>OE602 EC</b>	Digital system design using verilog HDL (Not for ECE students)

**AD-** Artificial Intelligence & Data Science

**AE-** Automobile Engineering

**AM-**Artificial Intelligence & Machine Learning

**CB-** IoT, Cyber Security & Block Chain

**CE-**Civil Engineering

**CS-**Computer Science

**DS-** Data Science

**EC-**Electronics and Communication Engg.

**EE-** Electrical Engineering

**EG-**English

**IT-**Information Technology

**LW-**Law

**MB-**Business Management

**ME-**Mechanical Engineering

**SCHEME OF INSTRUCTION & EXAMINATION**  
**B.E (INFORMATION TECHNOLOGY)**  
**VII Semester**

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	D/P	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
<b>Theory Course</b>										
1.	PC701IT	Internet of Things	3	-	-	3	30	70	3	3
2.	PC702IT	Big Data Analytics	3	-	-	3	30	70	3	3
3	OE-II	Open Elective II	3	-	-	3	30	70	3	3
4.	PE-III	Professional Elective-III	3	-	-	3	30	70	3	3
5.	PE-IV	Professional Elective IV	3	-	-	3	30	70	3	3
<b>Practical/Laboratory Courses</b>										
5	PC751IT	Internet Of Things Lab	-	-	2	2	25	50	3	1
6	PW752IT	Project Work-I	-	-	6	6	50	-	-	3
7	SI651IT	Summer Internship	-	-	-	-	50	-	-	2
Total			15	-	08	23	275	400	18	21

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<b>Open Elective – II</b>	
<b>Course Code</b>	<b>Course Title</b>
OE701IT	Principles of Cyber Security

<b>Profession Elective – III</b>	
<b>Course Code</b>	<b>Course Title</b>
PE 731 IT	Software Reuse Techniques
PE 732 IT	Cyber Security
PE 733 IT	Scalable Architectures for Large Applications
PE 734 IT	Natural Language Processing
PE 735 IT	Real Time Systems

<b>Profession Elective – IV</b>	
<b>Course Code</b>	<b>Course Title</b>
PE 741 IT	Software Project Management
PE 742 IT	Digital Forensics
PE 743 IT	Blockchain Technologies
PE 744 IT	Deep Learning
PE 745 IT	Augmented and virtual Reality



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**B.E (INFORMATION TECHNOLOGY)**  
**VIII Semester**

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			L	T	D/P	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
<b>Theory Course</b>										
1.	PE-V	Professional Elective–V	3	-	-	3	30	70	3	3
2.	OE-III	Open Elective–III	3	-	-	3	30	70	3	3
<b>Practical/Laboratory Courses</b>										
3.	PW861IT	Project Work–II	-	-	16	16	50	100	-	8
Total			06	-	16	22	110	240	06	14

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<b>Open Elective – III</b>	
<b>Course Code</b>	<b>Course Title</b>
OE 801 IT	Mobile Computing

<b>Profession Elective – V</b>	
<b>Course Code</b>	<b>Course Title</b>
PE 851 IT	Agile Software Development
PE 852 IT	Information Security
PE 853 IT	DevOp sand Kubernetes
PE 854 IT	Computational Intelligence
PE 855 IT	Quantum Computing