2-1 SEMESTER

SUBJECT: ANALOG AND DIGITAL ELECTRONICS (CS301ES)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Blooms Taxonomy Levels
CS301ES.1	Know the characteristics of various components. Know about the logic families and realization of logic Gates	2
CS301ES.2	Understand the utilization of components.	3
CS301ES.3	Design and analyze small signal amplifier circuits.	4
CS301ES.4	Learn Postulates of Boolean algebra and to minimize Combinational functions.	2
CS301ES.5	Design and analyze combinational and sequential circuits.	4

MAPPING

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS301ES.1	3	2	2	1	1	1			1	1	2	2	1	1	
CS301ES.2	2	2	2		2		1	1			1	2		2	1
CS301ES.3	2	2	3	2		1			2	1	2	2	1	2	2
CS301ES.4	2	2	2	2	2					1	2	2		1	2
CS301ES.5	2	2	3	1	1	1	1		1	1	3	2	1	1	1
Average	2.2	2.0	2.4	1.5	1.5	1.0	1.0	1.0	1.3	1.0	2.0	2.0	1.0	1.4	1.5

2-1 SEMESTER

SUBJECT: COMPUTER ORIENTED STATISTICAL METHODS (MA303BS)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
MA303BS.1	Apply the concepts of probability and distributions to some case studies. Apply the concepts of discrete probability distributions.	3
MA303BS.2	Apply the concepts of continuous probability distributions.	3
MA303BS.3	Assess the sampling theory and making inferences.	5
MA303BS.4	Correlate the material of one unit to the material in other units.	2
MA303BS.5	Resolve the potential misconceptions and hazards in each topic of study.	1

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
MA303BS.1	3	2	1	2	2	1			1	2	1	2	1	2	2
MA303BS.2	3	2	2	2	3				2	2	1	2	1	2	1
MA303BS.3	2	2	2	1	3	1			2	2	1	3	3	2	1
MA303BS.4	2	2	1		1		1		1						
MA303BS.5	2	2	1			1	2	1							1
AVERAGE	2.4	2	1.4	1.67	2.25	1	1.5	1	1.5	2	1	2.33	1.67	2	1.25

2-1 SEMESTER

SUBJECT: OBJECT ORIENTATION PROGRAMMING USING C++ (CS305PC)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS305PC.1	Identify the difference between structured program and procedure-oriented program	1
CS305PC.2	Develop programs for file handling	2
CS305PC.3	Implementing the concepts of Exceptions Handling in programming, Apply the concepts of inheritance	3
CS305PC.4	Develop applications for a range of problems using object-oriented Programming techniques.	2
CS305PC.5	Encapsulation of data in virtual functions.	3

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS305PC 1	2	2	2	2	1		1			2	1	3	3	2	1
CS305PC.2	3	3	3	3	3	1			2	2		3	3	3	1
CS305PC.3	3	3	3	3	3				3	2	1	3	3	3	1
CS305PC.4	3	3	3	3	3			1	3	2		3	3	3	1
CS305PC.5	3	3	3	3	3	1			2	1		3	3	2	1
AVERAGE	2.8	2.8	2.8	2.8	2.6	1	1	1	2.5	1.8	1	3	3	2.6	1

2-1 SEMESTER

SUBJECT: DATA STRUCTURES LAB (CS307PC)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS307PC.1	Develop a program using linear data structures such as array and circular queue	3
CS307PC.2	Develop a program for basic operations of Stack and its applications	4
CS307PC.3	Construct a program using Non-linear data structures and their applications such as trees and graphs	2
CS307PC.4	Construct a program using linear data structures for Linked Lists	3
CS307PC.5	Ability to Implement searching and sorting algorithms	1

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS307PC.1	3	3	3	1		1	1		2	3		1	3	2	3
CS307PC.2	3	3	3	2	2		1		2		2	1	3	3	3
CS307PC.3	3	3	3	2		1			2	3	3	1	3	3	3
CS307PC.4	3	2	3	2	2		1	1	2			1	2	3	3
CS307PC.5	3	2	1	2	2	1		1	3	1	1	1	2	3	3
AVERAGE	3.0	2.6	2.6	1.8	2.0	1.0	1.0	1.0	2.2	2.3	2.0	1.0	2.6	2.8	3.0

VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
(Sponsored by Lavu Educational Society)
[Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi]
Department of Computer Science and Engineering

Accredited by
NBA
NATIONAL BOARD
OF ACCREDITATION
CSE & ECE

2-1 SEMESTER

SUBJECT: DATA STRUCTURES (CS302PC)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS302PC.1	Develop a program using linear data structures such as array and circular queue	3
CS302PC.2	Develop a program for basic operations of Stack and its applications	4
CS302PC.3	Construct a program using Non-linear data structures and their applications such as trees and graphs	3
CS302PC .4	Construct a program using linear data structures for Linked Lists	1
CS302PC.5	Ability to Implement searching and sorting algorithms	3

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS302PC.1	3	2	1	1		1	1		1	3		1	3	2	3
CS302PC.2	2	2	2	1	2				1		2	1	3	3	3
CS302PC.3	3	2	2	2		1			2	3	2	1	3	3	3
CS302PC.4	3	2	2	2	2		1	1	2			1	2	3	3
CS302PC.5	3	2	1	1	2	1		1		1	1	1	2	3	3
AVERAGE	2.8	2	1.6	1.4	2	1	1	1	1.5	2.33	1.67	1	2.6	2.8	3

VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
(Sponsored by Lavu Educational Society)
[Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi]
Department of Computer Science and Engineering

CSE & ECE

2-1 SEMESTER

SUBJECT: ANALOG AND DIGITAL ELECTRONIC LAB (CS306ES)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS306ES.1	Know the characteristics of various components	1
CS306ES.2	Understand the utilization of components	2
CS306ES.3	Design and analyze small signal amplifier circuits AND combinational and sequential circuits.	4
CS306ES.4	Postulates of Boolean algebra and to minimize combinational functions	3
CS306ES.5	Known about the logic families and realization of logic gates.	1

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS306ES.1	3	2	2	1	1	1			1	1	2	2	1	1	
CS306ES.2	2	2	2		2		1	1			1	2		2	1
CS306ES.3	2	2	3	2		1			2	1	2	2	1	2	2
CS306ES.4	2	2	2	2	2					1	2	2		1	2
CS306ES.5	2	2	3	1	1	1	1		1	1	3	2	1	1	1
AVERAGE	2.2	2.0	2.4	1.5	1.5	1.0	1.0	1.0	1.3	1.0	2.0	2.0	1.0	1.4	1.5

2-1 SEMESTER

SUBJECT: COMPUTER ORGANIZATION AND ARCHITECTURE (CS304PC)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS304PC.1	Understand the basics of instructions sets and their impact on processor design.	2
CS304PC.2	Demonstrate an understanding of the design of the functional units of a digital computer system	3
CS304PC.3	Evaluate cost performance and design trade-offs in designing and constructing a computer processor including memory	4
CS304PC.4	Design a pipeline for consistent execution of instructions with minimum hazards	2
CS304PC.5	Recognize and manipulate representations of numbers stored in digital computers	4

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS304PC.1	3	2	3			1		1	1			2	2	1	3
CS304PC.2	3	2	2	2	1	1	1		1	1		2	2	2	2
CS304PC.3	3	2	3		2	1		1	1	2	1	1	3	2	2
CS304PC.4	3	2	2	2		1			1	2	1	3	2	2	2
CS304PC.5	3	2	3	1	3		1		1		1		3	1	3
AVERAGE	3	2	2.6	1.67	2	1	1	1	1	1.67	1	2	2.4	1.6	2.4

2-1 SEMESTER

SUBJECT: C++ PROGRAMMING LAB (CS309PC)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS309PC 1	Analyze the drawbacks of Procedure Oriented Programming comparing with the concepts of Object Oriented Programming paradigm & C++ language features in program design.	4
CS309PC 2	Identify and analyze the role of Classes &Objects, constructors &destructors in program design.	2
CS309PC 3	Design & implement various forms of inheritance and analyze how base class constructors are called.	1
CS309PC 4	Evaluate operator overloading, runtime polymorphism and Generic Programming through examples.	5
CS309PC 5	Explore exception handling and various Stream classes, I/O operations in handling file operations.	4

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS309PC 1	2	2	2	2	1		1			2	1	3	3	2	1
CS309PC.2	3	3	3	3	3	1			2	2		3	3	3	1
CS309PC.3	3	3	3	3	3				3	2	1	3	3	3	1
CS309PC.4	3	3	3	3	3			1	3	2		3	3	3	1
CS309PC.5	3	3	3	3	3	1			2	1		3	3	2	1
AVERAGE	2.8	2.8	2.8	2.8	2.6	1	1	1	2.5	1.8	1	3	3	2.6	1

2-1 SEMESTER

SUBJECT: IT WORKSHOP LAB (CS308PC)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS308PC1	Apply knowledge to assemble the computer	**4**
CS308PC 2	Learn types software installations	**2**
CS308PC 3	Ability to solve various troubles shooting.	**2**
CS308PC 4	Make use of MS Office package.	**5**
CS308PC 5	Design the documents and presentations by using MS Word and Power Point Presentation and Design the tabular and graphical representation of budget sheet etc using MS Excel.	**4**

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS308PC.1	2	1	3	1	1	2	1	1	1	2		2	1	2	2
CS308PC.2	2	1	3	2	1		1			2	3	2	1	2	2
CS308PC.3	2	1	3		2	2		1	2	2	2	2	2	1	2
CS308PC.4	2	1	1	2	1	1			3	1	1	2	2	1	2
CS308PC.5	2	1		1		1			2	1		2	2	1	2
AVERAGE	**2**	**1**	**2.5**	**1.5**	**1.25**	**1.5**	**1**	**1**	**2**	**1.6**	**2**	**2**	**1.6**	**1.4**	**2**

2-2 SEMESTER

SUBJECT: DISCRERE MATHEMATICS (CS401PC)

Upon completion of the course the students get an idea of:

Course Code	Course Outcomes	Blooms Taxonomy Levels
CS401PC.1	Ability to understand and construct precise mathematical proofs	2
CS401PC.2	Ability to use logic and set theory to formulate precise statements	2
CS401PC.3	Ability to analyze and solve counting problems on finite and discrete structures	3
CS401PC.4	Ability to describe and manipulate sequences.	3
CS401PC.5	Ability to apply graph theory in solving computing problems	2,4

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS401PC.1	3	2	1	1	1				1	2	1	2	2	1	1
CS401PC.2	3	2	1	1	1	1			1		1	3	2	1	1
CS401PC.3	3	3	1	2	2		1	1	1	1	1	3	2	1	1
CS401PC.4	2	2	3	1					1		1	2	1		
CS401PC.5	3	3	3	2	2	1			1	1	1	3	2	1	1
AVERAGE	2.8	2.4	1.8	1.4	1.5	1.0	1.0	1.0	1.0	1.3	1.0	2.6	1.8	1.0	1.0

VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

(Sponsored by Lavu Educational Society)

[Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi]

Department of Computer Science and Engineering

NBA
Accredited by
NATIONAL BOARD
OF ACCREDITATION
CSE & ECE

2-2 SEMESTER

SUBJECT: JAVA PROGRAMMING - (CS405PC)

After going through this course the student gets a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS405PC.1	Able to solve real world problems using OOP techniques	3
CS405PC.2	Able to understand the use of abstract classes.	2
CS405PC.3	Able to solve problems using java collection framework and I/o classes	3
CS405PC.4	Able to develop multithreaded applications with synchronization.	5
CS405PC.5	Able to develop applets for web applications, Able to design GUI based applications	5

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS405PC.1	3	3	2	1	1				2	2	1	2	1	1	1
CS405PC.2	3	3	2	2	2				2	2	2	3	1	1	2
CS405PC.3	3	3	2	3	2	1	1		2	2	3	3	1	1	1
CS405PC.4	3	2	3	3	3				3	2	2	2	1	3	1
CS405PC.5	3	3	3	3	2	1		1	3	2	3	3	1	1	1
AVERAGE	3	2.8	2.4	2.4	2	1	1	1	2.4	2	2.2	2.6	1	1.4	1.2

VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
(Sponsored by Lavu Educational Society)
[Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi]
Department of Computer Science and Engineering

Accredited by
NBA
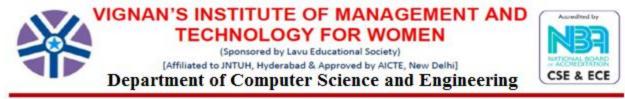NATIONAL BOARD OF ACCREDITATION
CSE & ECE

2-2 SEMESTER

SUBJECT: OPERATING SYSTEM - CS403PC

After going through this course the student gets a thorough knowledge on

Course Code	Course Outcome	Bloom's Taxonomy level
CS403PC.1	Understand the concepts of OS, the basic principles used in the design of modern operating system and process.	2
CS403PC.2	Understand the concepts of threads and mechanisms for synchronization.	4
CS403PC.3	Understand the concepts related to deadlock and memory management.	3
CS403PC.4	Understand the concepts of virtual memory management, file system.	2
CS403PC.5	Understand the concepts of secondary storage structure, protection and case study of Linux operating system.	1

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS403PC.1	2	2	1	2	2	1				1		2	1	2	
CS403PC.2	3	2	3	1	2	1				1	1	2	3	2	
CS403PC.3	3	2	2	2	2	1		1		2	1	2	2	2	
CS403PC.4	2	2	1	1	1	2	1			1		2	1	2	
CS403PC.5	3	2	2	2	1				2	2	1	2	1	2	1
AVERAGE	2.6	2	1.8	1.6	1.6	1.25	1	1	2	1.4	1	2	1.6	2	1

2-2 SEMESTER

SUBJECT: DATABASE MANAGEMENT SYSTEM-CS404PC

After going through this course the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS404PC.1	Understand data models to design a database	2
CS404PC.2	Illustrate the conceptual design for Large enterprises	2
CS404PC.3	Formulate SQL queries and integrity constraints over relations	4
CS404PC.4	Apply normalization on database for eliminating redundancy	3
CS404PC.5	Understand transaction properties, concurrency control and recovery techniques and Explain various data storage and security mechanisms	2

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS404PC.1	3	2	2	1	1				1	2		2	2	2	2
CS404PC.2	2	3	2	2	1				2	2		2	2	2	2
CS404PC.3	2	2	2	3	2	1	1		1	1		2	2	2	2
CS404PC.4	2	3	2	2	1	1		1	2	2	3	3	2	1	3
CS404PC.5	3	3	2	3	3	1			2	2	3	3	2	1	3
AVERAGE	2.4	2.6	2	2.2	1.6	1	1	1	1.6	1.8	3	2.4	2	1.6	2.4

VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
(Sponsored by Lavu Educational Society)
[Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi]
Department of Computer Science and Engineering

2-2 SEMESTER

SUBJECT: BUSINESS ECONOMICS & FINANCIAL ANALYSIS-SM402MS

After going through this course the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
SM402MS.1	The students will understand the various Forms of Business and the impact of economic variables on the Business.	2
SM402MS.2	Understand the elasticity of the demand of the product, different types, and measurement of elasticity of demand and factors influencing on elasticity of demand and supply	2
SM402MS.3	Recognize the Production function, features of Iso-Quants and Iso-Costs, Market Structure, Pricing aspects are learnt.	1
SM402MS.4	The Students can study the firm's financial position by analyzing the Financial Statements of a Company.	4
SM402MS.5	Evaluate different types of financial ratios knowing liquidity, solvency and profitability position of business.	5

MAPPING

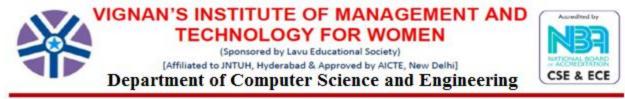| COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
SM402MS.1	1					2	1	2	2		2				2
SM402MS.2	1					2	1	2	2		2				2
SM402MS.3	2					1	2	1	2		2				2
SM402MS.4	2					1	2	1	2		2				2
SM402MS.5	2					1	2	1	2		2				2
AVERAGE	1.5					1.5	1.33	1.33	2		2				2

2-2 SEMESTER

SUBJECT: OPERATING SYSTEM LAB - CS406PC

After going through this course the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS406PC.1	Implement the basic command of OS and will execute the various system calls.	4
CS406PC.2	Implement the process synchronization problem using semaphore.	3
CS406PC.3	Implement CPU scheduling algorithm for process scheduling and deadlock management techniques.	2
CS406PC.4	Implement memory management techniques.	1
CS406PC.5	Implement file storage allocation techniques.	3

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS406PC.1	2	2	1	2	2	1				1		2	1	2	3
CS406PC.2	3	2	3	1	2	1			3	1	1	2	3	2	1
CS406PC.3	3	2	2	2	2	1		1	2	2	1	2	2	2	1
CS406PC.4	2	2	1	1	1	2	1		3	1		2	1	2	2
CS406PC.5	3	2	2	2	1				2	2	1	2	1	2	3
AVERAGE	2.6	2	1.8	1.6	1.6	1.25	1	1	2.5	1.4	1	2	1.6	2	2

2-2 SEMESTER

SUBJECT: DATABANE MANAGEMENT SYSTEMS LAB-CS407PC

After going through this course the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS407PC.1	Illustrate the basic DDL commands	2
CS407PC.2	Illustrate DCL and DML commands.	2
CS407PC.3	Demonstrate SQL queries using SQL operators.	5
CS407PC.4	Explain the concept of relational algebra.	1
CS407PC.5	Implement various queries using date and group functions and elaborate nested queries. Construct views, cursor and triggers.	5

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS407PC.1	3	2	2	1	1				1	2		2	2	2	2
CS407PC.2	2	3	2	2	1				2	2		2	2	2	2
CS407PC.3	2	2	2	3	2	1	1		1	1		2	2	2	2
CS407PC.4	2	3	2	2	1	1		1	2	2	3	3	2	1	3
CS407PC.5	3	3	2	3	3	1			2	2	3	3	2	1	3
AVERAGE	2.4	2.6	2	2.2	1.6	1	1	1	1.6	1.8	3	2.4	2	1.6	2.4

2-2 SEMESTER

SUBJECT: JAVA PROGRAMMING LAB-CS408PC

After going through this course the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS408PC.1	Able to write programs for solving real world problems using java collection frame work.	2
CS408PC.2	Able to write programs using abstract classes.	
CS408PC.3	Develop Simple Java Programs using inheritance and Exception Handling.	3
CS408PC.4	Develop Multi-threading Programming and Interfaces.	1
CS408PC.5	Develop GUI applications using Applet classes, Swing components and Event handling programs.	2

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS408PC.1	3	3	2	1	1				2	2	1	2	1	1	1
CS408PC.2	3	3	2	2	2				2	2	2	3	1	1	2
CS408PC.3	3	3	2	3	2	1	1		2	2	3	3	1	1	1
CS408PC.4	3	2	3	3	3				3	2	2	2	1	3	1
CS408PC.5	3	3	3	3	2	1		1	3	2	3	3	1	1	1
AVERAGE	3	2.8	2.4	2.4	2	1	1	1	2.4	2	2.2	2.6	1	1.4	1.2

3-1 SEMESTER

SUBJECT: COMUTER NETWORKS AND WEB TECHNOLOGIES Lab (CS506PC)

After going through this course, the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS506PC.1	Explain OSI Reference Model and in particular have a good knowledge of Layers 1-3	4
CS506PC.2	Working knowledge of datagram and internet socket programming	4
CS506PC.3	Design and test simple programs to implement networking concepts using Java.	3
CS506PC.4	Design simple data transmission using networking concepts and implement.	2
CS506PC.5	Compare and analyze different existing protocols.	3

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS506PC.1	2			1			1		2	3	2	2	2	3	2
CS506PC.2	2	2		1	2	1	1		1	3	2	3	1	3	2
CS506PC.3	3	2	2	2	2	1		1	2	2	3	2	2	2	2
CS506PC.4	3	3	2	2	2	1			3	2	2	1	2	2	2
CS506PC.5	2	2	2	3	3	1		1	1	1	1	1	1	2	3
AVERAGE	2.4	2.25	2	1.8	2.25	1	1	1	1.8	2.2	2	1.8	1.6	2.4	2.2

3-1 SEMESTER

SUBJECT: COMPUTER NETWORKS (CS503PC)

After going through this course, the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS503PC.1	Know the Categories and functions of various Data communication Networks	4
CS503PC.2	Design and analyze various error detection techniques.	4
CS503PC.3	Demonstrate the mechanism of routing the data in network layer	3
CS503PC.4	Know the significance of various Flow control and Congestion control Mechanisms	2
CS503PC.5	Know the Functioning of various Application layer Protocols.	3

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS503PC.1	2	2	1	2	3		1	1	2	3	3	3	3	2	2
CS503PC.2	2	3	3	2	1	1			1	2	2	1	1	1	2
CS503PC.3	3	2	2	1		1				2	2	2	2	1	3
CS503PC.4	3		1	2	1	1			2		2	1	3	2	3
CS503PC.5	2	2	1	1	3		1		2	1	2	1	1	2	2
AVERAGE	2.4	2.25	1.6	1.6	2	2	1	1	1.75	2	2.2	1.6	2	1.6	2.4

VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
(Sponsored by Lavu Educational Society)
[Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi]
Department of Computer Science and Engineering
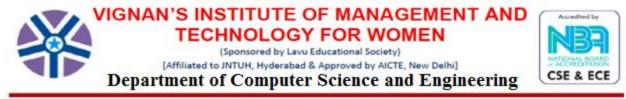
3-1 SEMESTER

SUBJECT: WEB TECHNOLOGIES (CS504PC)

After going through this course, the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS504PC.1	Design web pages.	4
CS504PC.2	Use technologies of Web Programming.	3
CS504PC.3	Apply object-oriented aspects to Scripting.	2
CS504PC.4	Create databases with connectivity using JDBC	5
CS504PC.5	Build web-based application using sockets.	1

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS504PC.1	2	3	2	2	2	1	1		2	2	2	1	1	3	3
CS504PC.2	1	3	2	2	2	1	1		1	2	2	3	1	2	3
CS504PC.3	1	3	1	1	2	1		1	1	3	3	2		2	2
CS504PC.4	2	3		1					1	1	3	1	1	2	2
CS504PC.5	3	3	3	1	3				2	1	2		1	2	2
AVERAGE	1.8	3	2	1.4	2.25	1	1	1	1.4	1.8	2.4	1.75	1	2.2	2.4

VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
(Sponsored by Lavu Educational Society)
[Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi]
Department of Computer Science and Engineering
CSE & ECE

3-1 SEMESTER

SUBJECT: FORMAL LANGUAGE AND AUTOMATA THEORY (CS501PC)

After going through this course, the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS501PC.1	Able to understand the concept of abstract machines and their power to recognize the languages.	4
CS501PC.2	Able to employ finite state machines for modeling and solving computing problems	3
CS501PC.3	Able to design context free grammars for formal languages	2
CS501PC.4	Able to distinguish between decidability and undesirability	1
CS501PC.5	Able to gain proficiency with mathematical tools and formal methods	3

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS501PC.1	2	3	2	2	2		1			1	1	3	2	2	2
CS501PC.2	2	1	3	1	2			1		1		3	2	2	2
CS501PC.3	2	1	2	1	2	1		1	1	1	2	2	1	1	3
CS501PC.4	2	1	1	1		1			2	2	2	2	2	1	3
CS501PC.5	3	1	1	3	1	1			2	1	3		2	1	3
AVERAGE	2.2	1.4	1.8	1.6	1.8	1.0	1.0	1.0	1.7	1.2	2.0	2.5	1.8	1.4	2.6

3-1 SEMESTER

SUBJECT: COMPILER DESIGN Lab- CS605PC

After going through this course, the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS605PC.1	Design and develop interactive and dynamic web applications using HTML, CSS, JavaScript and XML	2
CS605PC.2	Apply client-server principles to develop scalable and enterprise web applications	3
CS605PC.3	Ability to design, develop, and implement a compiler for any language.	4
CS605PC.4	Able to use lex and yacc tools for developing a scanner and a parser	1
CS605PC.5	Able to design and implement LL and LR parsers	2

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS605PC.1	2	2	3		2			1	1	2	3	2	3	2	2
CS605PC.2	3	3	2		1	1			1	1	3	2	2	3	3
CS605PC.3	2	1	3	3	1	1	1		3	2	2	1	2	3	2
CS605PC.4	3	1	2	2	2	1			3	1	1	2	2	2	3
CS605PC.5	2	3	3	1	3	1	1		2	1	1	2	2	2	3
AVERAGE	2.4	2	2.6	2	1.8	1	1	1	2	1.4	2	1.8	2.2	2.4	2.6

3-1 SEMESTER

SUBJECT: INFORMATIONAL RETRIEVAL SYSTEMS- CS614PE

After going through this course this student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS614PE.1	Ability to apply IR principles to locate relevant information large collections of data	2
CS614PE.2	Ability to design different document clustering algorithms	3
CS614PE.3	Implement retrieval systems for web search tasks	4
CS614PE.4	Design an Information Retrieval System for web search tasks.	4
CS614PE.2	To learn the important concepts and algorithms in IRS	4

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS614PE.1	3	1	1	2	1	3	1		2	2	3	2	2	1	2
CS614PE.1	2	2	1	2	1	3	1	1	2		2	2	3	1	2
CS614PE.1	2	2	2	2	1	2	1		1			2	1	3	2
CS614PE.1	2	2	1	1	1				3	2		3	1	2	3
CS614PE.1	3	1	1		1				1	1	1	2	2	2	3
AVERAGE	2.4	1.6	1.2	1.75	1	2.67	1	1	1.8	1.67	2	2.2	1.8	1.8	2.4

3-1 SEMESTER

SUBJECT: PRINCIPLES OF PROGRAMMING LANGUAGES- CS702PC

After going through this course this student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS702PC.1	Acquire the skills for expressing syntax and semantics in formal notation	**2**
CS702PC.2	Gain knowledge of and able to compare the features of various programming languages	**4**
CS702PC.3	Identify and apply a suitable programming paradigm for a given computing application	**4**
CS702PC.4	To provide conceptual understanding of high-level language design and implementation	**1**
CS702PC.5	To understand important paradigms of programming languages	**4**

MAPPING

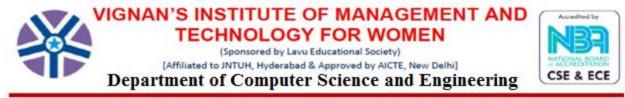| COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS702PC.1	2	2	2	1	2		1		2	2	2	2	2	3	3
CS702PC.2	3	1	2	2	2	1	1		2	2	2	3	3	2	2
CS702PC.3	3	1	2	2	2	1			1	3		2	3	2	2
CS702PC.4	2	1	1			2			2	3		1	3	3	2
CS702PC.5	2	3	1	1	1			1		2	1	2	2	2	3
AVERAGE	**2.4**	**1.6**	**1.6**	**1.5**	**1.75**	**1.33**	**1**	**1**	**1.75**	**2.4**	**1.67**	**2**	**2.6**	**2.4**	**2.4**

3-1 SEMESTER

SUBJECT: SOFTWARE ENGINEERING- CS502PC

After going through this course this student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS502PC.1	Ability to translate end-user requirements into system and software requirements, using e.g. UML, and structure the requirements in a Software Requirements Document (SRD).	**2**
CS502PC.2	Identify and apply appropriate software architectures and patterns to carry out high level design of a system and be able to critically compare alternative choices.	**4**
CS502PC.3	Will have experience and/or awareness of testing problems and will be able to develop a simple testing report	**4**
CS502PC.4	Understanding of the working knowledge of the techniques for estimation, design, testing and quality management of large software development projects.	**1**
CS502PC.5	Identify and apply appropriate software architectures and patterns	**4**

MAPPING

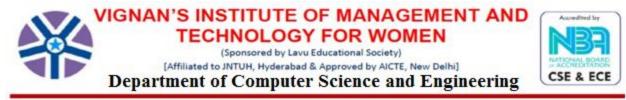| COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS502PC.1	2	3	2	2	3		1			2	2	2	1	2	3
CS502PC.2	2	1	2	3	3						2	2	2	2	3
CS502PC.3	2	2	2	2	2				2	1	1	3	2	2	2
CS502PC.4	2	2	1		2	1		1	2	1	1	2	2	3	1
CS502PC.5	2	1	1	1	1	1	1		1	2		2	2	1	1
AVERAGE	**2.0**	**1.8**	**1.6**	**2.0**	**2.2**	**1.0**	**1.0**	**1.0**	**1.7**	**1.5**	**1.5**	**2.2**	**1.8**	**2.0**	**2.0**

3-1 SEMESTER

SUBJECT: SOFTWARE ENGINEERING LAB- CS505PC

After going through this course the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS505PC.1	Ability to translate end-user requirements into system and software requirements	2
CS505PC.2	Ability to generate a high-level design of the system from the software requirements	4
CS505PC.3	To experience and/or awareness of testing problems and will be able to develop a simple testing report	5
CS505PC.4	Identify and apply appropriate software architectures and patterns	5
CS505PC.5	Understanding of the working knowledge of the techniques for estimation, design	5

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS505PC.1	3	2	2	2	2				3	2	2	1	2	2	2
CS505PC.2	1	2	2	2	3	1		1		1	2	1	3	2	2
CS505PC.3	2	3	3		3		1		2	1		2	2	2	3
CS505PC.4	2	2	3	3	2	1		1	2	1	1	2	3	3	3
CS505PC.5	2	2	3	3	2	1			2			1	1	3	2
AVERAGE	2.0	2.2	2.6	2.5	2.4	1.0	1.0	1.0	2.3	1.3	1.7	1.4	2.2	2.4	2.4

3-1 SEMESTER

SUBJECT: ADVANCED COMMUNICATION SKILLS LAB- EN508HS

After going through this course the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
EN508HS.1	Develop their LSRW skills	5
EN508HS.2	Overcome their Mother tongue influence	2
EN508HS.3	Express/interpret their views without hesitation	2
EN508HS.4	Lose their stage fear and develop self-confidence	2
EN508HS.5	Be able to reach corporate expectations	2

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
EN508HS.1	1	1	1		2	3	3	2	2	2	1	3		1	1
EN508HS.2	1		1	1	2	1	3	1	2	3	1	3			1
EN508HS.3			1		2	3	3	2	2	3	1	3	1		1
EN508HS.4	1		2		1	3	3	2	2	3	1	2			1
EN508HS.5	1		1		2	3	2	2	2	3	1	3			2
AVERAGE	1	1	1.2	1	1.8	2.6	2.8	1.8	2	2.8	1	2.8	1	1	1.2

VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
(Sponsored by Lavu Educational Society)
[Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi]
Department of Computer Science and Engineering

3-2 SEMESTER

SUBJECT: DESIGN AND ANALYSIS OF ALGORITHMS - CS603PC

After going through this course, the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS603PC.1	Identify appropriate data structure as applied to specific problem domain and examine computational complexities.	2
CS603PC.2	Illustrate Dynamic programming strategies and Greedy strategies.	4
CS603PC.3	Determine and Distinguish the concept of Advance data structures.	5
CS603PC.4	Examine various graph algorithms and their complexities.	4
CS603PC.5	Outline the basic concepts of computational complexities.	2
CS603PC.6	Define and memorize various flow and sorting networks	1

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS603PC.1	3	3	2	1	1	1	1		2	2		1	2	2	2
CS603PC.2	2	2	1	1		1			2	2	2	1	2	3	3
CS603PC.3	2	1	1	1			1	1	1		1	2	2	3	2
CS603PC.4	2	1	1		1				1	1	1	2	2	2	3
CS603PC.5	3	3	3	2	3	1			2	3	2	3	2	3	3
AVERAGE	2.4	2	1.6	1.25	1.667	1	1	1	1.6	2	1.5	1.8	2	2.6	2.6

3-2 SEMESTER

SUBJECT: COMPILER DESIGN - CS602PC

After going through this course the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS602PC.1	Explain the phases of a Compiler	5
CS602PC.2	Illustrate the translation of regular expression into parse tree using syntax analyzer	4
CS602PC.3	Construct the intermediate representation considering the type systems	2
CS602PC.4	Apply the optimization techniques for the generated code	3
CS602PC.5	Use the different compiler construction tools to develop a simple compiler	3

MAPPING

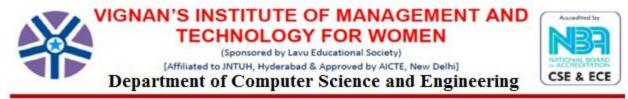| COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS602PC.1	2	2	3	2	2	1		1	2	2	3	2	3	1	2
CS602PC.2	3	3	2	1	1	1	1	1			2	3	1	3	2
CS602PC.3	2	1	1	3	1		1		1		2	2	1	3	3
CS602PC.4	1	2	2	2	1		1			2	1	2	2	1	3
CS602PC.5	2	1	1	1	3	1			2	1	1	1	2	2	2
AVERAGE	2.0	1.8	1.8	1.8	1.6	1.0	1.0	1.0	1.7	1.7	1.8	2.0	1.8	2.0	2.4

3-2 SEMESTER

SUBJECT: SOFTWARE TESTING METHODOLOGIES - CS615PE

After going through this course the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS615PE.1	To provide knowledge of the concepts in software testing such as testing process, criteria, strategies, and methodologies.	4
CS615PE.2	To develop skills in software test automation and management using latest tools.	3
CS615PE.3	Design and develop the best test strategies in accordance to the development model.	3
CS615PE.4	To provide knowledge of Software Testing Methods.	2
CS615PE.5	To develop skills in software test automation and management using latest tools.	2

MAPPING

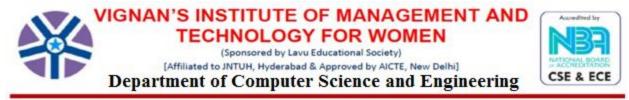| COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS615PE.1	3	3	2	2	2			1	1		2	3	1		2
CS615PE.2	2	2	2	1	2	1	1			2	2	3	2	2	2
CS615PE.3	2	2	1	2	2	1				2	3	3	1	2	3
CS615PE.4	2	3	2	1	1	1				2	3	2	3	2	3
CS615PE.5	2	2	2	2	1				1	1	3	2	3	3	2
AVERAGE	2.2	2.4	1.8	1.6	1.6	1.0	1.0	1.0	1.0	1.8	2.6	2.6	2.0	2.3	2.4

3-2 SEMESTER

SUBJECT: SOFTWARE TESTING METHODOLOGIES LAB- CS733PE

After going through this course the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS733PE.1	To provide knowledge of the concepts in software testing such as testing process, criteria, strategies, and methodologies.	4
CS733PE.2	To develop skills in software test automation and management using latest tools.	1
CS733PE.3	Design and develop the best test strategies in accordance to the development model.	5
CS733PE.4	To provide knowledge of Software Testing Methods.	3
CS733PE.5	To develop skills in software test automation and management using latest tools.	2

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS733PE.1	3	3	2	2	2			1	1		2	3	1		2
CS733PE.2	2	2	2	1	2	1	1			2	2	3	2	2	2
CS733PE.3	2	2	1	2	2	1				2	3	3	1	2	3
CS733PE.4	2	3	2	1	1	1				2	3	2	3	2	3
CS733PE.5	2	2	2	2	1				1	1	3	2	3	3	2
AVERAGE	2.2	2.4	1.8	1.6	1.6	1.0	1.0	1.0	1.0	1.8	2.6	2.6	2.0	2.3	2.4

3-2 SEMESTER

SUBJECT: DISASTER PREPAREDNESS & PLANNING MANAGEMENT-CE600OE

After going through this course the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CE600OE.1	It provides the knowledge on Disaster Concepts to Management.	4
CE600OE.2	It Provides Ability to understand Categories of Disasters.	1
CE600OE.3	It Provides the Realization of the responsibilities to society.	5
CE600OE.4	It Analyze the Relationship between Development and Disasters.	3
CE600OE.5	It provides the Impacts of Disasters Key Skills.	2

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CE600OE.1	1		1			1	1		3	3	2	2			
CE600OE.2		1		3	1		1	2	3	3	2	2	1		
CE600OE.3		1				1		1	3	3	2	2	1	1	
CE600OE.4	1	1	2	2	1	1	1	1	3	3	1	2		1	
CE600OE.5	1		2	2		1	1		3	3	1	2			1
AVERAGE	1.00	1.00	1.67	2.33	1.00	1.00	1.00	1.33	3.00	3.00	1.60	2.00	1.00	1.00	1.00

VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
(Sponsored by Lavu Educational Society)
[Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi]
Department of Computer Science and Engineering

Accredited by
NBA
NATIONAL BOARD OF ACCREDITATION
CSE & ECE

3-2 SEMESTER

SUBJECT: MACHINE LEARNING- CS601PE

After going through this course the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS601PE.1	Understand the concepts of computational intelligence like machine learning Ability to get the skill	5
CS601PE.2	to apply machine learning techniques to address the real time problems in different areas	3
CS601PE.3	Understand the Neural Networks and its usage in machine learning application.	2
CS601PE.4	To study the pattern comparison techniques	4
CS601PE.5	To understand computational learning theory.	2

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS601PE.1	3	2	2	2	2	1			2	2	3	3	2	3	2
CS601PE.2	2	3	2	1	3		1		2	2	3	3	2	3	2
CS601PE.3	2	2	2	2					1	1	2	3	2	2	2
CS601PE.4	2	2	1	3	1		1	1		1	2	3	2	2	2
CS601PE.5	3	2	3	2	2	1			1		2		3	1	3
AVERAGE	2.4	2.2	2	2	2	1	1	1	1.5	1.5	2.4	3	2.2	2.2	2.2

3-2 SEMESTER

SUBJECT: MACHINE LEARNING LAB- CS604PC

After going through this course the student got a thorough knowledge on:

Course Code	Course Outcome	Bloom's Taxonomy level
CS604PC.1	understand complexity of Machine Learning algorithms and their limitations	4
CS604PC.2	understand modern notions in data analysis-oriented computing	3
CS604PC.3	be capable of confidently applying common Machine Learning algorithms in practice and implementing their own	3
CS604PC.4	Be capable of performing experiments in Machine Learning using real-world data	2
CS604PC.5	To understand computational learning theory.	1

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS604PC.1	3	2	2	2	2	1			2	2	3	3	2	3	2
CS604PC.2	2	3	2	1	3		1		2	2	3	3	2	3	2
CS604PC.3	2	2	2	2					1	1	2	3	2	2	2
CS604PC.4	2	2	1	3	1		1	1		1	2	3	2	2	2
CS604PC.5	3	2	3	2	2	1			1		2		3	1	3
AVERAGE	2.4	2.2	2	2	2	1	1	1	1.5	1.5	2.4	3	2.2	2.2	2.2

VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
(Sponsored by Lavu Educational Society)
[Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi]
Department of Computer Science and Engineering

4-1 SEMESTER

SUBJECT: COMPUTER NETWORK AND SECURITY - (CS735PE)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS735PE.1	Differentiate network security and computer security.	3
CS735PE.2	Understand various attacks on network.	1
CS735PE.3	Understand various conventional cryptography algorithms and asymmetric encryption algorithms.	4
CS735PE.4	Expertise in Message authentication, Hash function and Public key encryption.	5
CS735PE.5	Remembering requirements for web security and implementing security through SSL/TLS.	2

MAPPING

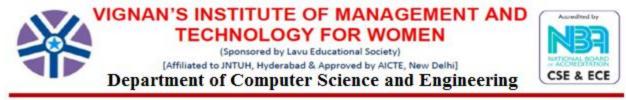| COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS735PE.1	3	3	3	1	2				3	2	1	2	3	3	2
CS735PE.2	2	3	2	2	2	1	1		2	2		2	3	2	2
CS735PE.3	2	2		2	2	1			2		2	2	3	3	3
CS735PE.4	2	2	2						1		1	2	2	1	2
CS735PE.5	3	3	2	2	1			1	2	1		3	3	3	2
AVERAGE	2	2.2	1.8	1.6	1.6	1.25	1	1	1.75	1.5	2.4	2.2	2.2	2.6	2.6

4-1 SEMESTER

SUBJECT: CLOUD COMPUTING (CS742PE)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS742PE.1	Ability to understand various computing paradigm	2
CS742PE.2	Ability to understand various cloud fundamentals & principals	2
CS742PE.3	Ability to understand various service delivery models of a cloud computing architecture	5
CS742PE.4	Ability to understand the ways in which the cloud can be programmed and deployed.	4
CS742PE.5	Ability to Understanding cloud service providers.	3

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS742PE.1	3	2	2	2	2				2	2	1	1	3	3	3
CS742PE.2	2	2	2	2	1	1			2				3	2	3
CS742PE.3	2	3	2	2	1	1	1			2	2		3	2	2
CS742PE.4	3	3	3	3				1	3	3	3	1	2	2	2
CS742PE.5	2	2	3	3					3	3	2		2	3	
AVERAGE	2.4	2.4	2.4	2.4	1.3	1.0	1.0	1.0	2.5	2.5	2.0	1.0	2.6	2.4	2.5

4-1 SEMESTER

SUBJECT: SOFTWARE PROCESS & PROJECT MANAGEMENT (CS734PE)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS734PE.1	Gains knowledge of software economics, phases in the life cycle of software development.	2
CS734PE.2	Describes the purpose and importance of project management and analyze the artifacts and metrics from the perspective of planning, tracking and completion of the project.	3
CS734PE.3	Analyzes the major and minor milestones in technical perspective.	1
CS734PE.4	Gains knowledge of Project organization, process instrumentation and differentiate Organization structures and Project Structures.	4
CS734PE.5	Designs and develops a software product using conventional and modern principles of software project management.	2

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS734PE.1	3		3		3				2	2	2	1	1	2	2
CS734PE.2	1	1		2	2	1			1	2	3	1	2	3	3
CS734PE.3	2	3	2	2		1			1		2		3	2	2
CS734PE.4	2	2			3	1		1				2	1	3	2
CS734PE.5	2		3	1	3		1		2	1	2		3	2	2
AVERAGE	2.0	2.0	2.7	1.7	2.8	1.0	1.0	1.0	1.5	1.7	2.3	1.3	2.0	2.4	2.2

4-1 SEMESTER

SUBJECT: DATA MINING (CS701PC)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS701PC.1	Ability to understand the types of the data to be mined and present a general classification of tasks and primitives to integrate a data mining system.	1
CS701PC.2	Apply preprocessing methods for any given raw data	5
CS701PC.3	Extract interesting patterns from large amounts of data.	4
CS701PC.4	Discover the role played by data mining in various fields.	3
CS701PC.5	Choose and employ suitable data mining algorithms to build analytical applications	4

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS701PC.1	3	3	3	3					2	3	2	3	2	2	1
CS701PC.2	3	2	3	3	2	1	1	1	2		2	3	2	2	2
CS701PC.3	3	2	3	3		1			2	2	3	3	3	2	2
CS701PC.4	2	3	3	3	3	1				3		3	2	2	2
CS701PC.5	2	3	2		2				2	3	2	3	3	2	2
AVERAGE	2.6	2.6	2.8	3	2.3	1	1	1	2	2.8	2.3	3	2.4	2	1.8

VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
(Sponsored by Lavu Educational Society)
[Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi]

Department of Computer Science and Engineering

CSE & ECE

4-1 SEMESTER

SUBJECT: PRINCIPLES OF ENTREPRENEURSHIP (MT701OE)

Upon completion of the course the students get an idea of:

Course Code	Course Outcomes	Blooms Taxonomy Levels
MT701OE.1	Understand the concept of entrepreneur and entrepreneurship and known's about resource used for preparing a business plan.	2
MT701OE.2	Understands the financing and managing of a business enterprise.	2
MT701OE.3	Understands financial Institutional assistance and support given to MSME's.	2
MT701OE.4	Demonstrate strong conceptual knowledge in the functional area of production and marketing management.	3
MT701OE.5	Knows about the development and the judicial setup of Labour Laws.	2

MAPPING

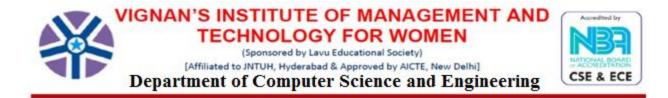| COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
MT701OE.1	2					1	2	2	2		2				2
MT701OE.2	2					2	1	2	2		2				2
MT701OE.3	1					1	1	1	2		2				2
MT701OE.4	1					1	1	1	2		2				2
MT701OE.5	2					1	2	1	2		2				2
AVERAGE	1.6					1.33	1.25	1.33	2		2				2

4-1 SEMESTER

SUBJECT: PROJECT STAGE 1 - CS706PC

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS706PC.1	Identify technically and economically feasible problems of social relevance	3
CS706PC.2	Plan and build the project team with assigned responsibilities	5
CS706PC.3	Identify and survey the relevant literature for getting exposed to related solutions	4
CS706PC.4	Analyse, design and develop adaptable and reusable solutions of minimal complexity by using modern tools	5
CS706PC.5	Implement and test solutions to trace against the user requirements	4

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS706PC.1	3	2	2	1		2			2	2	2	1	1	2	3
CS706PC.2	3	3	3	3	2		1		2	2	2	1	3	3	2
CS706PC.3	2	3	3	2	2	1		1	2		2		3		3
CS706PC.4	2	3	3		2	1				2	2		2	2	3
CS706PC.5	2	3	3	2					2	2		1		3	3
AVERAGE	2.4	2.8	2.8	2.0	2.0	1.3	1.0	1.0	2.0	2.0	2.0	1.0	2.3	2.5	2.8

4-1 SEMESTER

SUBJECT: SEMINAR (CS765PC)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS706PC .1	Identify technically and economically feasible problems of social relevance	3
CS706PC .2	Plan and build the project team with assigned responsibilities	5
CS706PC .3	Identify and survey the relevant literature for getting exposed to related solutions	4
CS706PC .4	Analyse, design and develop adaptable and reusable solutions of minimal complexity by using modern tools	2

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS706PC.1	2	2		1		1			1		2	3	2	2	2
CS706PC.2	2	1	3	2	1	1	1				2	3	2	2	3
CS706PC.3	2	1	2	2	2			1		2		2	3	2	3
CS706PC.4	3	1	2	2	2	1			2		3			1	3
AVERAGE	2.25	1.25	2.33	1.75	1.67	1	1	1	1.5	2	2.33	2.67	2.33	1.75	2.75

VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
(Sponsored by Lavu Educational Society)
[Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi]
Department of Computer Science and Engineering

4-1 SEMESTER

SUBJECT: COMPUTER NETWORK AND SECURITY LAB – CS751PC

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS751PC .1	Identify technically and economically feasible problems of social relevance	3
CS751PC .2	Plan and build the project team with assigned responsibilities	5
CS751PC .3	Identify and survey the relevant literature for getting exposed to related solutions	4
CS751PC .4	Analyze, design and develop adaptable and reusable solutions of minimal complexity by using modern tools	3
CS751PC .5	Implement and test solutions to trace against the user requirements	4

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS751PC.1	3	3	3	1	2				3	2	1	2	3	3	2
CS751PC.2	2	3	2	2	2	1	1		2	2		2	3	2	2
CS751PC.3	2	2		2	2	1			2		2	2	3	3	3
CS751PC.4	2	2	2						1		1	2	2	1	2
CS751PC.5	3	3	2	2	1			1	2	1		3	3	3	2
AVERAGE	2	2.2	1.8	1.6	1.6	1.25	1	1	1.75	1.5	2.4	2.2	2.2	2.6	2.6

4-2 SEMESTER

SUBJECT: INDUSTRIAL ORIENTED MINI PROJECT/(CS705PC)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS705PC.1	Identify technically and economically feasible problems of social relevance	3
CS705PC.2	Plan and build the project team with assigned responsibilities	5
CS705PC.3	Identify and survey the relevant literature for getting exposed to related solutions	4
CS705PC.4	Analyse, design and develop adaptable and reusable solutions of minimal complexity by using modern tools	3
CS705PC.5	Implement and test solutions to trace against the user requirements	4

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS705PC.1	3	2	3		2				2	2	2	1	3	3	3
CS705PC.2	3	1		3	2	1	1		2	2	2	1	2	2	3
CS705PC.3	2	1	2	2	1	1					1		1	2	2
CS705PC.4	1	2	2	2	2			1		3		1	2	3	2
CS705PC.5	3	2	1		1	1			1		1	2	1	3	3
AVERAGE	2.4	1.6	2.0	2.3	1.6	1.0	1.0	1.0	1.7	2.3	1.5	1.3	1.8	2.6	2.6

VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
(Sponsored by Lavu Educational Society)
[Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi]
Department of Computer Science and Engineering

NBA
NATIONAL BOARD
OF ACCREDITATION
CSE & ECE
Accredited by

4-2 SEMESTER

SUBJECT: ORGANIZATIONAL BEHAVIOUR (SM801MS)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
SM801MS.1	To understand the concept of organizational behavior and the behavior of people in the organization.	3
SM801MS.2	To analyze and compare different models used to explain individual behaviour related to motivation and attitude.	2
SM801MS.3	To identify the processes used in developing communication and resolving conflicts.	1
SM801MS.4	To explain group dynamics and demonstrate skills required for working in groups.	4
SM801MS.5	They will also be able to distinguish between different leadership theories & styles and contribute to the effective performance of a team as the team leader or a group member.	3

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
SM801MS.1	1					1	2	2	2		2				2
SM801MS.2	2					2	1	2	2		2				2
SM801MS.3	1					1	2	1	2		2				2
SM801MS.4	1					2	1	2	2		2				2
SM801MS.5	1					1	2	1	2		2				2
AVERAGE	1.2					1.7	1.5	1.7	2.0		2.0				2.0

4-2 SEMESTER

PROJECT STAGE - 2 (CS802PC)

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS802PC .1	Identify technically and economically feasible problems of social relevance	3
CS802PC .2	Plan and build the project team with assigned responsibilities	5
CS802PC .3	Identify and survey the relevant literature for getting exposed to related solutions	4
CS802PC .4	Analyse, design and develop adaptable and reusable solutions of minimalcomplexity by using modern tools	2
CS802PC .5	Implement and test solutions to trace against the user requirements	4

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS801PC.1	3	2	2	1					2	2	2	2	3	3	1
CS801PC.2	3	3	1	3	2	1	1		2	2	2	2	3	3	2
CS802PC.3	2	2	1	2	2	1				2	2	2	3	3	2
CS802PC.4	2	2	3	3	2	1		1			2	2	2	2	3
CS802PC.5	3	1	3	2	2					2		3	2	2	3
AVERAGE	2.6	2	2	2.2	2	1	1	1	2	2	2	2.2	2.6	2.6	2.2

VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
(Sponsored by Lavu Educational Society)
[Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi]
Department of Computer Science and Engineering

4-2 SEMESTER

SUBJECT: HUMAN COMPUTER INTERACTION - CS814PE

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
CS814PE. 1	Ability to apply HCI and principles to interaction design.	4
CS814PE. 2	Ability to do screen planning and screen design.	2
CS814PE. 3	Ability to design Windows.	3
CS814PE. 4	Ability to conduct HCI patterns evaluation.	2
CS814PE. 5	Ability to design certain tools for blind or PH people.	4

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS814PE.1	3	1		2							2	2	2	2	3
CS814PE.2	2	1	2	2	2	1		1	2	2	2		2	2	2
CS814PE.3	2	2	2	1	2	1			2	2	2	2	2	2	3
CS814PE.4	2	2		1		1	1			1		2		3	2
CS814PE.5	1	1	1	3	2				2	2	2		2	3	3
AVERAGE	2.0	1.4	1.7	1.8	2.0	1.0	1.0	1.0	2.0	1.8	2.0	2.0	2.0	2.4	2.6

VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
(Sponsored by Lavu Educational Society)
[Affiliated to JNTUH, Hyderabad & Approved by AICTE, New Delhi]
Department of Computer Science and Engineering

CSE & ECE

4-2 SEMESTER

SUBJECT: NON-CONVENTIONAL ENERGY SOURCES- NT622OE

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
NT622OE. 1	The ability to use basic knowledge in mathematics, science and engineering	4
NT622OE. 2	To apply them to solve problems specific to mechanical engineering.	2
NT622OE. 3	The ability to design and conduct experiments, interprets and analyze data, and report results.	6
NT622OE. 4	To develop an open mind and have an understanding of the impact of engineering on society.	2
NT622OE. 5	To demonstrate awareness of contemporary issues	4

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
NT622OE.1	2	1				2	2	1						1	1
NT622OE.2	2	2	2	2		1	2	1	1					1	1
NT622OE.3	2	2	2	2	1	1	1	2	1	1				1	1
NT622OE.4	2			1		3	1	2		1					1
NT622OE.5	1	1	1			2	2	2	1	2					1
AVERAGE	1.8	1.5	1.67	1.67	1	1.8	1.6	1.6	1	1.33				1	1

4-2 SEMESTER

SUBJECT: TOTAL QUALITY MANAGEMENT- MT802OE

Upon completion of the course the students get an idea of:

Course Code	Course Outcome	Bloom's Taxonomy level
MT802OE. 1	Identify technically and economically feasible problems of social relevance	4
MT802OE. 2	Plan and build the project team with assigned responsibilities	2
MT802OE. 3	Identify and survey the relevant literature for getting exposed to related solutions	6
MT802OE. 4	Analyse, design and develop adaptable and reusable solutions of minimalcomplexity by using modern tools	2
MT802OE. 5	Implement and test solutions to trace against the user requirements	4

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
MT802OE.1	3	2	2		1	2	2	2	1		2		2	3	2
MT802OE.2		1	2	1	3	1	2	2	1	2	2	2	2	3	3
MT802OE.3	3	2	1	2	2	3	1	1	2	2	1	2	2	1	1
MT802OE.4	3	2	2		2	2	3	2	2	1	1	1	3	2	3
MT802OE.5	2			2	1		1		1	1	1	3	3	2	2
AVERAGE	2.8	1.8	1.8	1.7	1.8	2.0	1.8	1.8	1.4	1.5	1.4	2.0	2.4	2.2	2.2