2-1 SEMESTER

SUBJECT: ANALOG AND DIDGITAL 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	PSO1	PSO2	PSO3
CS301ES.1	3	2	2	1	1	1			1	1	2	1	1	2
CS301ES.2	2	2	2		2		1	1			1		2	2
CS301ES.3	2	2	3	2		1			2	1	2	1	2	3
CS301ES .4	2	2	2	2	2					1	2		1	2
CS301ES.5	2	2	3	1	1	1	1		1	1	3	1	1	2
AVERAGE	**2.2**	**2.0**	**2.4**	**1.5**	**1.5**	**1.0**	**1.0**	**1.0**	**1.3**	**1.0**	**2.0**	**1.6**	**1.4**	**3**

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**

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**

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	PSO1	PSO2	PSO3
CS306ES.1	3	2	2	1	1	1			1	1	2	1	1	2
CS306ES.2	2	2	2		2		1	1			1		2	2
CS306ES.3	2	2	3	2		1			2	1	2	1	2	3
CS306ES .4	2	2	2	2	2					1	2		1	2
CS306ES.5	2	2	3	1	1	1	1		1	1	3	1	1	2
AVERAGE	**2.2**	**2.0**	**2.4**	**1.5**	**1.5**	**1.0**	**1.0**	**1.0**	**1.3**	**1.0**	**2.0**	**1.6**	**1.4**	**3**

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	Able to understand the basic components and the design of CPU, ALU and Control Unit.	**2**
CS304PC.2	Ability to understand memory hierarchy and its impact on computer cost/performance	**3**
CS304PC.3	Ability to understand the advantage of instruction level parallelism and pipelining for high performance Processor design.	**4**
CS304PC.4	Ability to understand the instruction set, instruction formats and addressing modes of 8086	**2**
CS304PC.5	Ability to write assembly language programs to solve problems.	**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 (CS305PC)

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

Course Code	Course Outcome	Bloom's Taxonomy level
CS305PC 1	Analyze the drawbacks of Procedure Oriented Programming comparing with the concepts of Object Oriented Programming paradigm & C++ language features in program design.	**4**
CS305PC 2	Identify and analyze the role of Classes &Objects, constructors &destructors in program design.	**2**
CS305PC 3	Design & implement various forms of inheritance and analyze how base class constructors are called.	**1**
CS305PC 4	Evaluate operator overloading, runtime polymorphism and Generic Programming through examples.	**5**
CS305PC 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
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: 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**

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**

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	3
CS403PC.2	3	2	3	1	2	1			3	1	1	2	3	2	1
CS403PC.3	3	2	2	2	2	1		1	2	2	1	2	2	2	1
CS403PC.4	2	2	1	1	1	2	1		3	1		2	1	2	2
CS403PC.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: 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**

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
CS408.1	Able to write programs for solving real world problems using java collection frame work.	**2**
CS408.2	Able to write programs using abstract classes.	
CS408.3	Develop Simple Java Programs using inheritance and Exception Handling.	**3**
CS408.4	Develop Multi-threading Programming and Interfaces.	**1**
CS408.5	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**

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**

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- CS602PC

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

Course Code	Course Outcome	Bloom's Taxonomy level
CS602PC.1	Design and develop interactive and dynamic web applications using HTML, CSS, JavaScript and XML	**2**
CS602PC.2	Apply client-server principles to develop scalable and enterprise web applications	**3**
CS602PC.3	Ability to design, develop, and implement a compiler for any language.	**4**
CS602PC.4	Able to use lex and yacc tools for developing a scanner and a parser	**1**
CS602PC.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
CS602PC.1	2	2	3		2			1	1	2	3	2	3	2	2
CS602PC.2	3	3	2		1	1			1	1	3	2	2	3	3
CS602PC.3	2	1	3	3	1	1	1		3	2	2	1	2	3	2
CS602PC.4	3	1	2	2	2	1			3	1	1	2	2	2	3
CS602PC.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- CS523PE

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

Course Code	Course Outcome	Bloom's Taxonomy level
CS523PE.1	Ability to apply IR principles to locate relevant information large collections of data	**2**
CS523PE.2	Ability to design different document clustering algorithms	**3**
CS523PE.3	Implement retrieval systems for web search tasks	**4**
CS523PE.4	Design an Information Retrieval System for web search tasks.	**4**
CS523PE.5	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
CS523PE.1	3	1	1	2	1	3	1		2	2	3	2	2	1	2
CS523PE.2	2	2	1	2	1	3	1	1	2		2	2	3	1	2
CS523PE.3	2	2	2	2	1	2	1		1			2	1	3	2
CS523PE.4	2	2	1	1	1				3	2		3	1	2	3
CS523PE.5	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- CS515PE

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

Course Code	Course Outcome	Bloom's Taxonomy level
CS515PE.1	Acquire the skills for expressing syntax and semantics in formal notation	**2**
CS515PE.2	Gain knowledge of and able to compare the features of various programming languages	**4**
CS515PE.3	Identify and apply a suitable programming paradigm for a given computing application	**4**
CS515PE.4	To provide conceptual understanding of high-level language design and implementation	**1**
CS515PE.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
CS515PE.1	2	2	2	1	2		1		2	2	2	2	2	3	3
CS515PE.2	3	1	2	2	2	1	1		2	2	2	3	3	2	2
CS515PE.3	3	1	2	2	2	1			1	3		2	3	2	2
CS515PE.4	2	1	1			2			2	3		1	3	3	2
CS515PE.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**

3-2 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- 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.	**1**
CS615PE.3	Design and develop the best test strategies in accordance to the development model.	**5**
CS615PE.4	To provide knowledge of Software Testing Methods.	**3**
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: MACHINE LEARNING- CS601PC

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

Course Code	Course Outcome	Bloom's Taxonomy level
CS615PE.1	Understand the concepts of computational intelligence like machine learning Ability to get the skill	**5**
CS615PE.2	to apply machine learning techniques to address the real time problems in different areas	**3**
CS615PE.3	Understand the Neural Networks and its usage in machine learning application.	**2**
CS615PE.4	To study the pattern comparison techniques	**4**
CS615PE.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
CS615PE.1	3	2	2	2	2	1			2	2	3	3	2	3	2
CS615PE.2	2	3	2	1	3		1		2	2	3	3	2	3	2
CS615PE.3	2	2	2	2					1	1	2	3	2	2	2
CS615PE.4	2	2	1	3	1		1	1		1	2	3	2	2	2
CS615PE.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**

4-1 SEMESTER

SUBJECT: COMPUTER NETWORK AND SECURITY - (CS701PC)

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

Course Code	Course Outcome	Bloom's Taxonomy level
CS701PC.1	Differentiate network security and computer security.	**3**
CS701PC.2	Understand various attacks on network.	**1**
CS701PC.3	Understand various conventional cryptography algorithms and asymmetric encryption algorithms.	**4**
CS701PC.4	Expertise in Message authentication, Hash function and Public key encryption.	**5**
CS701PC.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
CS701PC.1	3	3	3	1	2				3	2	1	2	3	3	2
CS701PC.2	2	3	2	2	2	1	1		2	2		2	3	2	2
CS701PC.3	2	2		2	2	1			2		2	2	3	3	3
CS701PC.4	2	2	2						1		1	2	2	1	2
CS701PC.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 (CS714PE)

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

Course Code	Course Outcome	Bloom's Taxonomy level
CS714PE.1	Ability to understand various computing paradigm	**2**
CS714PE.2	Ability to understand various cloud fundamentals & principals	**2**
CS714PE.3	Ability to understand various service delivery models of a cloud computing architecture	**5**
CS714PE.4	Ability to understand the ways in which the cloud can be programmed and deployed.	**4**
CS714PE.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
CS714PE.1	3	2	2	2	2				2	2	1	1	3	3	3
CS714PE.2	2	2	2	2	1	1			2				3	2	3
CS714PE.3	2	3	2	2	1	1	1			2	2		3	2	2
CS714PE.4	3	3	3	3				1	3	3	3	1	2	2	2
CS714PE.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 (CS725PE)

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

Course Code	Course Outcome	Bloom's Taxonomy level
CS725PE.1	Gains knowledge of software economics, phases in the life cycle of software development.	**2**
CS725PE.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**
CS725PE.3	Analyzes the major and minor milestones in technical perspective.	**1**
CS725PE.4	Gains knowledge of Project organization, process instrumentation and differentiate Organization structures and Project Structures.	**4**
CS725PE.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
CS725PE.1	3		3		3				2	2	2	1	1	2	2
CS725PE.2	1	1		2	2	1			1	2	3	1	2	3	3
CS725PE.3	2	3	2	2		1			1		2		3	2	2
CS725PE.4	2	2			3	1		1				2	1	3	2
CS725PE.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 (CS702PC)

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

Course Code	Course Outcome	Bloom's Taxonomy level
CS702PC.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**
CS702PC.2	Apply preprocessing methods for any given raw data	**5**
CS702PC.3	Extract interesting patterns from large amounts of data.	**4**
CS702PC.4	Discover the role played by data mining in various fields.	**3**
CS702PC.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
CS702PC.1	3	3	3	3					2	3	2	3	2	2	1
CS702PC.2	3	2	3	3	2	1	1	1	2		2	3	2	2	2
CS702PC.3	3	2	3	3		1			2	2	3	3	3	2	2
CS702PC.4	2	3	3	3	3	1				3		3	2	2	2
CS702PC.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**

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**

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 (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	**2**
CS705PC .5	Deploy and support the solutions for better manageability of the solutions and provide scope for improvability	**5**

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS705PC.1	2	2		1		1			1		2	3	2	2	2
CS705PC.2	2	1	3	2	1	1	1				2	3	2	2	3
CS705PC.3	2	1	2	2	2			1		2		2	3	2	3
CS705PC.4	3	1	2	2	2	1			2		3			1	3
CS705PC.5	3	2	3	2	2				2	1		3	2		3
AVERAGE	**2.4**	**1.4**	**2.5**	**1.8**	**1.8**	**1.0**	**1.0**	**1.0**	**1.7**	**1.5**	**2.3**	**2.8**	**2.3**	**1.8**	**2.8**

4-1 SEMESTER

SUBJECT: COMPUTER NETWORK AND SECURITY LAB – CS703PC

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

Course Code	Course Outcome	Bloom's Taxonomy level
CS703PC .1	Identify technically and economically feasible problems of social relevance	**3**
CS703PC .2	Plan and build the project team with assigned responsibilities	**5**
CS703PC .3	Identify and survey the relevant literature for getting exposed to related solutions	**4**
CS703PC .4	Analyze, design and develop adaptable and reusable solutions of minimal complexity by using modern tools	**3**
CS703PC .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
CS703PC.1	3	3	3	1	2				3	2	1	2	3	3	2
CS703PC.2	2	3	2	2	2	1	1		2	2		2	3	2	2
CS703PC.3	2	2		2	2	1			2		2	2	3	3	3
CS703PC.4	2	2	2						1		1	2	2	1	2
CS703PC.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/(CS704PC)

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

Course Code	Course Outcome	Bloom's Taxonomy level
CS704PC.1	Identify technically and economically feasible problems of social relevance	**3**
CS704PC.2	Plan and build the project team with assigned responsibilities	**5**
CS704PC.3	Identify and survey the relevant literature for getting exposed to related solutions	**4**
CS704PC.4	Analyse, design and develop adaptable and reusable solutions of minimal complexity by using modern tools	**3**
CS704PC.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
CS704PC.1	3	2	3		2				2	2	2	1	3	3	3
CS704PC.2	3	1		3	2	1	1		2	2	2	1	2	2	3
CS704PC.3	2	1	2	2	1	1					1		1	2	2
CS704PC.4	1	2	2	2	2			1		3		1	2	3	2
CS704PC.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**

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
CS802PC.1	3	2	2	1					2	2	2	2	3	3	1
CS802PC.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**

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**

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**