



**II B. Tech II Semester**

**SUBJECT: DISCRETE 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
<b>AVERAGE</b>	<b>2.8</b>	<b>2.4</b>	<b>1.8</b>	<b>1.4</b>	<b>1.5</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.3</b>	<b>1.0</b>	<b>2.6</b>	<b>1.8</b>	<b>1.0</b>	<b>1.0</b>



**II B. Tech II 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



**II B. Tech II 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



**II B. Tech II 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



**II B. Tech II 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



**II B. Tech II 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



**II B. Tech II Semester**

**SUBJECT: DATABASE 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



**II B. Tech II 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