



# Excel

## COLLEGE FOR COMMERCE AND SCIENCE



Approved by Government of TamilNadu & Affiliated with Periyar University, Salem  
Pallakapalayam, Komarapalayam, Namakkal Dt-637 303

Tamilnadu, India

[www.excelinstitutions.com](http://www.excelinstitutions.com)

### 2021-22 REGULATION

### DEPARTMENT OF COMPUTER SCIENCE

### M.Sc COMPUTER SCIENCE

<b>Programme Outcome(POs)</b>	
<b>PO1.</b>	Knowledge of Management theories and Human Resource practices to solve business problems through research in Global context.
<b>PO2</b>	Foster Analytical and Critical thinking Abilities for Data-Based Decision- Making.
<b>PO3.</b>	Ability to Incorporate Quality, ethical and legal value-based perspectives to all organizational Activities.
<b>PO4.</b>	Capability to Lead themselves and the Team to Achieve Organizational Goals.

<b>Programme Specific Outcome(PSOs)</b>	
<b>PSO1.</b>	Top repare the Students who will demonstrate respect fulengagement with others" ideas, behaviors, beliefs and apply diverse frames of reference to decisions and actions.
<b>PSO2.</b>	To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making and leadership skill that will facilitate startups and high potential organizations.
<b>PSO3.</b>	Design and implement HR systems and practices grounded in research that comply with employment laws, leading the organization towards growth and development.
<b>PSO4.</b>	Top reduce employable, ethical and innovative professional sto sustain in the dynamic business world.



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### DEPARTMENT OF COMPUTER SCIENCE

### 2021-22 REGULATION-COURSE OUTCOMES

Course Code	Course Title	Course Outcomes	
<b>SEMESTER-I</b>			
21PCS011	DESIGN AND ANALYSIS OF ALGORITHMS.	CO1	It gives stepwise procedure to solve problems.
		CO2	Understanding the statement structure and apply simple problems.
		CO3	The Problems can be broken down into small pieces for program development
		CO4	Efficient approach of solving problems by a model of computations
		CO5	Recognize the operation Perform

#### Mapping with Programme Outcomes

Cos	PO1	PO2	PO3	PO4
CO1	S	M	L	L
CO2	S	M	L	M
CO3	S	M	L	L
CO4	L	S	M	M
CO5	S	M	M	L

S- Strong M-Medium L-Low



<b>21PCS02</b>	<b>DISTRIBUTED OPERATING SYSTEM.</b>	<b>CO1</b>	Clear understanding on several resource management techniques like distributed shared memory and other resources
		<b>CO2</b>	Knowledge on mutual exclusion and Deadlock detection of Distributed operating system
		<b>CO3</b>	Able to design and implement algorithms of distributed shared memory and commit protocols
		<b>CO4</b>	Able to design and implement fault tolerant distributed systems
		<b>CO5</b>	Write a polished resume and cover letter and effectively prepare for and participate interviews.

### Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4
CO1	M	S	M	L
CO2	S	M	M	L
CO3	S	M	M	L
CO4	M	S	M	L
CO5	S	M	L	L

**S- Strong M-Medium L-Low**



<b>21PCS03</b>	<b>ADVANCED JAVA PROGRAMMING</b>	<b>CO1</b>	Understand the basic features of Java Programming.
		<b>CO2</b>	Understand the classes and objects of Java programming.
		<b>CO3</b>	Know the concept of packages, interfaces and threading in Java.
		<b>CO4</b>	Understand the socket concept and its types.
		<b>CO5</b>	Understand the applet concept.

### Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4
<b>CO1</b>	S	S	M	---
<b>CO2</b>	M	M	M	S
<b>CO3</b>	S	M	L	M
<b>CO4</b>	M	S	M	S
<b>CO5</b>	S	M	L	L

**S- Strong M-Medium L-Low**



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<b>21PCS04</b>	<b>INTERNET OF THINGS.</b>	<b>CO1</b>	Understand the basis of IoT and its characteristics.
		<b>CO2</b>	Understand the functionality of various architectures of IoT.
		<b>CO3</b>	Analysis of various Protocols Standards and providers.
		<b>CO4</b>	Recognize the importance of Web of Things.
		<b>CO5</b>	Interpret various Applications of IoT.

### Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4
<b>CO1</b>	S	S	S	---
<b>CO2</b>	S	M	M	S
<b>CO3</b>	S	L	L	M
<b>CO4</b>	M	S	M	S
<b>CO5</b>	S	L	S	S

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### SEMESTER-II

<b>21PCS06</b>	<b>COMPILER DESIGN</b>	<b>CO1</b>	On the successful completion of this course, Students will be able to: Use the knowledge of patterns, tokens
		<b>CO2</b>	Regular expressions for solving a problem..
		<b>CO3</b>	Understand and Acquire knowledge about finite automata and regular expressions.
		<b>CO4</b>	Learn context free grammars, compiler parsing techniques..
		<b>CO5</b>	Explore knowledge about Syntax Directed definitions and translation scheme.

### Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4
CO1	S	S	S	-
CO2	S	M	M	S
CO3	S	L	L	M
CO4	M	S	M	S
CO5	S	L	S	S

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<b>21PCS05</b>	<b>ADVANCED WEB TECHNOLOGY</b>	<b>CO1</b>	Design a web page with Web form fundamentals and web control classes.
		<b>CO2</b>	Recognize the importance of validation control, cookies and session
		<b>CO3</b>	Apply the knowledge of ASP.NET object, ADO.NET data access and SQL to develop a client server model manpower resources.
		<b>CO4</b>	Recognize the difference between Data list and Data grid controls in accessing data..
		<b>CO5</b>	Analyze And Evaluate script objects..

### Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4
CO1	S	S	S	-
CO2	S	M	M	S
CO3	S	L	L	M
CO4	M	S	M	S
CO5	S	L	S	S

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<b>21PCS07</b>	<b>DATA MINING</b>	<b>CO1</b>	After completing this course, students will be familiar with basic data mining concepts for solving real world problems
		<b>CO2</b>	To introduce the fundamental concepts of Data Mining Techniques
		<b>CO3</b>	Various Algorithms used Information Retrieval Datasets.
		<b>CO4</b>	On Line Analytical Mining.
		<b>CO5</b>	Accounting and their application familiar with basic data mining concepts for solving real world problems

### Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4
CO1	S	S	S	-
CO2	S	M	M	S
CO3	S	L	L	M
CO4	M	S	M	S
CO5	S	L	S	S

**S- Strong M-Medium L-Low**

### SEMESTER-III





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<b>21PCS12</b>	<b>OPEN SOURCE COMPUTING</b>	<b>CO1</b>	Express the place and role of cost accounting in the modern economic environment and select the costs according to their impact on business..
		<b>CO2</b>	Differentiate methods of schedule costs per unit of production and differentiate methods of calculating stock consumption
		<b>CO3</b>	Describe the various incentive scheme, overhead apportionment and reapportionment techniques that are applied to manufacturing and service business..
		<b>CO4</b>	Determine the cost of each process where product passes from different stages of manufacturing to get its finished form
		<b>CO5</b>	Understand the tools and techniques used in transport and contract costing.

### Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4
<b>CO1</b>	S	S	S	-
<b>CO2</b>	S	M	M	S
<b>CO3</b>	M	S	L	M
<b>CO4</b>	M	S	M	S
<b>CO5</b>	S	S	-	-

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<b>21PCS10</b>	<b>DIGITAL IMAGE PROCESSING</b>	<b>CO1</b>	Review the fundamental concepts of a digital image processing system and Analyze images in the frequency domain using various transforms
		<b>CO2</b>	Evaluate the techniques for image enhancement and image restoration. Categorize various compression techniques
		<b>CO3</b>	Interpret Image compression standards
		<b>CO4</b>	Interpret image segmentation and representation techniques
		<b>CO5</b>	Gain idea to process various image used in various fields such as weather forecasting.

### Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4
CO1	S	S	S	-
CO2	S	M	M	S
CO3	S	L	L	M
CO4	M	S	M	S
CO5	S	L	S	S

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<b>21PCS11</b>	<b>BIG DATA ANALYTICS</b>	<b>CO1</b>	Understand the fundamental concepts, approaches to Analytics and key roles of Data Scientists.
		<b>CO2</b>	Acquire the Phases of Data Analytics Lifecycle and apply the data analytics projects in CASE STUDY
		<b>CO3</b>	Participate and contribute as a Data Science Team Member on big data and other analytics projects by using R-Programming Language.
		<b>CO4</b>	Understand and Deploying the advanced analytical theory and Methods of Clustering to address big data analytics projects
		<b>CO5</b>	Apply the association rules, validate and testing by the appropriate analytic techniques and tools to analyze big data

### Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4
<b>CO1</b>	S	S	S	-
<b>CO2</b>	S	M	M	S
<b>CO3</b>	S	L	L	M
<b>CO4</b>	M	S	M	S
<b>CO5</b>	S	L	S	S

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### SEMESTER-IV

<b>21PCS16</b>	<b>MACHINE LEARNING.</b>	<b>CO1</b>	Understand the Basic Programming Logic..
		<b>CO2</b>	Understand the basic Statements.
		<b>CO3</b>	Implement Files and SQL..
		<b>CO4</b>	Evaluate Graphics in python.
		<b>CO5</b>	Develop a basic communication plan.

### Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4
CO1	S	S	S	-
CO2	S	M	M	S
CO3	S	L	L	M
CO4	M	S	M	S
CO5	S	L	S	S

**S- Strong M-Medium L-Low**



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<b>21UCSE04</b>	<b>WIRELESS SENSOR NETWORK.</b>	<b>CO1</b>	Have knowledge on the Wireless Sensor Network architecture
		<b>CO2</b>	Choose the appropriate access scheme for a given scenario.
		<b>CO3</b>	Deploy various Mobile Handheld devices..
		<b>CO4</b>	Understand various security issues in Mobile Computing.
		<b>CO5</b>	Have knowledge on the Wireless Sensor Network architecture

### Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4
CO1	S	S	S	-
CO2	S	M	M	S
CO3	S	L	L	M
CO4	M	S	M	S
CO5	S	L	S	S

**S- Strong M-Medium L-Low**