



# Excël

## COLLEGE FOR COMMERCE AND SCIENCE



Approved by Government of TamilNadu & Affiliated with Periyar University, Salem  
Pallakkapalayam, Komarapalayam, Namakkal Dt-637 303  
Tamilnadu, India  
[www.excelinstitutions.com](http://www.excelinstitutions.com)

### 2021-22 REGULATION

### DEPARMENT OF COMPUTER APPLICATIONS

<b>Programme Outcome(POs)</b>	
<b>PO1.</b>	To understand the fundamental concepts of computer system.
<b>PO2</b>	To Design and analyze precise specifications of algorithms and interaction behavior.
<b>PO3.</b>	To apply the technologies in various fields of Computer Applications.
<b>PO4.</b>	To communicate effectively in both verbal and written form in industry and society.

<b>Programme Specific Outcome(PSOs)</b>	
<b>PSO1.</b>	To understand the fundamental concepts of computer system, including hardware and networking.
<b>PSO2.</b>	To Design, and analyze precise specifications of algorithms, procedures, and interaction behavior.
<b>PSO3.</b>	To communicate effectively in both verbal and written form in industry and society.
<b>PSO4.</b>	To apply the technologies in various fields of Computer Science, including Mobile applications, Web site development and management, databases, and computer networks.



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### DEPARTMENT OF COMPUTER APPLICATIONS

### 2021 REGULATION-COURSE OUTCOMES

Course Code	Course Title	Course Outcomes	
<b>SEMESTER-I</b>			
22UCA01	<b>PROBLEM SOLVING THROUGH C</b>	CO1	Recognize the Basic Terminologies of C Programming.
		CO2	Understanding the statement structure and apply simple problems.
		CO3	Understand and apply the pre-defined functions and user defined functions and then apply the simple problems.
		CO4	Demonstrate the operation of Structures and unions.
		CO5	Recognize the operation of Files.

#### Mapping with Programme Outcomes

Cos	PO1	PO2	PO3	PO4
CO1	S	M	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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### SEMESTER-II

22UCA02	<b>OBJECT ORIENTED PROGRAMMING CONCEPTS USING C++</b>	CO1	Recognize the Basic Terminologies of oops.
		CO2	Understanding the classes and objects.
		CO3	Understand and apply the over loading, Inheritance and then apply the simple problems.
		CO4	Demonstrate the pointers.
		CO5	Recognize the operation of Files.

### Mapping with Programme Outcomes

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

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22UCA03	<b>COMPUTER ORGANIZATION AND ARCHITECTURE</b>	CO1	Recognize the Basic Number system and logic gates.
		CO2	Understanding the flip flops and Karnaugh-maps.
		CO3	Understand and apply micro operation and data transfer.
		CO4	Demonstrate the computer arithmetic and addressing modes.
		CO5	Analyze the memory and I/O organizations

### 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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### SEMESTER-III

<b>22UCA04</b>	<b>DATA STRUCTURE AND ALGORITHMS</b>	<b>CO1</b>	Remember the concept of algorithms.
		<b>CO2</b>	Understanding the stack and queues.
		<b>CO3</b>	Apply linked list for other data structures.
		<b>CO4</b>	Evaluate the trees and sorting methods.
		<b>CO5</b>	Analyze the sorting and file organizations.

### 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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22UCA05	RELATIONAL DATABASE MANAGEMENT SYSTEMS	CO1	Remember the concept of Database.
		CO2	Understanding the data models and ER Diagram.
		CO3	Apply SQL commands.
		CO4	Evaluate the DBMS in SQL.
		CO5	Analyze the Transaction management.

### 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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### SEMESTER-IV

<b>22UCA06</b>	<b>PROGRAMMING IN JAVA</b>	<b>CO1</b>	Remember the concepts of OOPS.
		<b>CO2</b>	Understand the basic Terminologies of languages and Statements.
		<b>CO3</b>	Demonstrate the use classes and objects.
		<b>CO4</b>	Evaluate the packages and exception handling methods.
		<b>CO5</b>	Analyze the I/O Streams and graphics classes.

### 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>22UCA07</b>	<b>COMPUTER NETWORK</b>	<b>CO1</b>	Remember the concept of networks and its types.
		<b>CO2</b>	Understanding the wireless communications.
		<b>CO3</b>	Understand and Apply data link protocols.
		<b>CO4</b>	Evaluate the network design issues.
		<b>CO5</b>	Analyze the connection issues.

### 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-V

22UCA08	DATA MINING AND WAREHOUSING	CO1	Remember the basics of data mining.
		CO2	Understand data mining query language.
		CO3	Demonstrate the mining associative rules.
		CO4	Study classification and prediction.
		CO5	Analyze cluster Technologies.

### Mapping with Programme Outcomes

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

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<b>22UCA10</b>	<b>VISUAL PROGRAMMING</b>	<b>CO1</b>	Remember the basics of VB.
		<b>CO2</b>	Understand data and files in VB.
		<b>CO3</b>	Demonstrate the MDI Applications
		<b>CO4</b>	Study of data control
		<b>CO5</b>	Analyze the ADO and Active X.

### Mapping with Programme Outcomes

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

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



### SEMESTER-VI

22UCA11	PROGRAMMING IN PYTHON	CO1	Understand the Basic Programming Logic.
		CO2	Understand the basic Statements.
		CO3	Implement Files and SQL.
		CO4	Evaluate Graphics in python.
		CO5	Analyze Version control system.

### Mapping with Programme Outcomes

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

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<b>22UCAE05</b>	<b>COMPUTER GRAPHICS</b>	<b>CO1</b>	Remember the basic concepts of Graphics system.
		<b>CO2</b>	Understanding scan system and I/O Devices.
		<b>CO3</b>	Apply 2D Transformations.
		<b>CO4</b>	Evaluate 3D Transformations.
		<b>CO5</b>	Implement visual surface techniques.

### Mapping with Programme Outcomes

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

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<b>22UCAE08</b>	<b>SOFTWARE ENGINEERING</b>	<b>CO1</b>	Remember the basics of software engineering and models.
		<b>CO2</b>	Understand requirement and Analysis.
		<b>CO3</b>	Demonstrate the functions of software design.
		<b>CO4</b>	Study the object modeling.
		<b>CO5</b>	Analyze testing technologies.

### Mapping with Programme Outcomes

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

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