

INFORMATION TECHNOLOGY (XI)

CODE No. – (802)

Session - 2021-22

Annual Examination March/April, 2022

Max. Marks- 30

TERM-II	UNITS	MAX. MARKS for Theory
Employability Skills	Unit 4 : Entrepreneurial Skills-III	5
	Unit 5 : Green Skills-III	
Subject Skills	*Unit -2 : Networking And Internet	5
	Unit-4: RDBMS	10
	Unit-5: Fundamentals of Java	10
	TOTAL	30

* Topics from Term1

*** UNIT 2: NETWORKING AND INTERNET**

S. NO.	LEARNING OUTCOMES	THEORY
1.	Understand cybercrime and the need of Cyber Security	<ul style="list-style-type: none">• Network safety concerns: (Digital Footprints, Threats, Virus, Worm, Trojan Horse, Spam, Malware, DoS Attacks, Eavesdropping, Adware, Spyware, Snooping)• Networking Security Measures (Antivirus, Firewall, Login ids and Password)• Cyber Crime (Phishing, Pharming, Spoofing, Cyber Bullying, Hacking, Cracking, Identity Theft, Cyber Stalking, Cyber Trolling,• Cyber Safety (Netiquettes, IT Act, Cyber Laws)

UNIT 4: RDBMS

S. NO.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	Understand Relational Database Management System	<ul style="list-style-type: none">• Database and its purpose• Components of a table• Relational Database Model Terminology (Relation, Tuple, Attribute, Cardinality)• Keys (Primary, Candidate, Alternate, Foreign)	<ul style="list-style-type: none">• Installation of MYSQL• Simple calculations in MYSQL
2.	Introduction to MYSQL	<ul style="list-style-type: none">• Introduction To MYSQL• Classification of MYSQL commands (DDL, DML)• Data Types in MYSQL (char, varchar, decimal, int, date, time)• Create database• Create table• View structure of a table• Add constraints in table• Modify structure• Show all tables created in a database• Delete structure	<ul style="list-style-type: none">• CREATE DATABASE• USE• CREATE TABLE• DESCRIBE• SHOW TABLES• ALTER TABLE• DROP TABLE
3.	DML Commands	<ul style="list-style-type: none">• Add rows to a table• Viewing content of a table• Display selected data depending on specific condition• Display data in a order• modify the data stored in a table• delete contents of a table	<ul style="list-style-type: none">• INSERT INTO• UPDATE• DELETE• Using WHERE, ORDER BY, DISTINCT, LIKE, BETWEEN, IN

UNIT 5: FUNDAMENTALS TO JAVA PROGRAMMING

S. NO.	LEARNING OUTCOMES	THEORY	PRACTICAL
1	Understand Integrated Development Environment (NETBEANS)	<ul style="list-style-type: none"> • Components of IDE • Understand and change Properties and methods of Components like jButton, jLabel, jTextField, jTextArea, jRadiobutton, jCheckbox, jPasswordField, jListBox, jComboBox 	<ul style="list-style-type: none"> • Create a project • Create a JFrameForm container • Add a button component on JFrameForm and change properties like text, font, foreground etc using properties window • Add other container controls like jTextField , jTextArea, jRadiobutton, jCheckbox, jPasswordFieldjListBox, jComboBox and change their properties
2	JAVA Programming	<ul style="list-style-type: none"> • Introduction to Object Oriented Programming • To understand various data types (primitive) and purpose of each data type • To understand the need and usage of variables • To understand usage of operators (assignment, arithmetic, relational, logical, bitwise) • To understand how to attach a code with components like jButton, jLabel, jTextField and create a simple application on JFrame • To understand the use of various components like jTextArea, jRadiobutton, jCheckbox, jPasswordField, jListBox, jComboBox, JTable, JOptionPane, JPanel • To understand when to use selection statements (if, if else and switch case) 	<ul style="list-style-type: none"> • Display message Using jLabel and jTextField • Join two text entries and display them • Write code to close the application • Using Joption Pane display a message “welcome to INFORMATION TECHNOLOGY” • Perform simple arithmetic calculation using operators and display the result • Write the code to find simple interest • Write code to perform an operation based on the criteria input by the user in a checkbox or radio button • change the background colour of jButton based on the colour selected from the jListBox /jComboBox • accept marks in 5 subjects and find out the total, percentage. Also display grade depending on the total marks obtained. • Enter a character and find out it is vowel or consonant