



AUXILIUM COLLEGE (Autonomous)

(Accredited by NAAC with A+ Grade with a CGPA of 3.55 out of 4 in the 3rd cycle)
Gandhi Nagar, Vellore – 6.

**DEPARTMENT OF COMPUTER
SCIENCE
LESSON PLAN
2021-2022**



Auxilium College (Autonomous)

(Accredited by NAAC with A+ Grade with a CGPA of 3.55 out of 4 in the 3rd Cycle)

Gandhi Nagar, Vellore - 632 006.

FACULTY RECORD

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Institutional Responsibility	Department Responsibility
Staff Secretary	Head In-charge

Academic Year : 2021-2022
 Class : III B.Sc. Computer Science
 Subject : Data Communications and Networks
 Hours / Week : 5
 Credits : 5

Semester : V
 Class Code : 9025HJ
 Subject Code : VCCSP19
 Total Hours : 75
 Total Marks : 100

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
August II	5	I	Data Networking and the Internet - Communications Model - Internet Protocol Architecture - TCP/IP and Internet Based Applications	Black Board Google Meet Google Classroom	Distributed and cloud Computing - Kai	Slip Test
III	5	I	The TCP/IP Protocol Architecture - The OSI Model standardization within a protocol Architecture - Traditional Internet based Applications	PPT - Google Meet Video Content	Data and Computer Communications	Group Discussion
IV	5	I	Multimedia Data Transmission - Concepts and Terminology - Analog and Digital data Transmission - Impairments - Channel Capacity	Google Meet Google Classroom	Data and Computer Communications William	Assignment
September I	5	II	Transmission Media - Guided Transmission Media - Wireless Transmission - Propagation - Line of Sight - Signal Encoding Techniques - Digital Data Dig. Signal	Video Content Google Meet	Data and Computer Communications William	Questionnaires
II	5	II	Digital Data Analog Signals - Analog Data Digital Signals - Analog Data Communication Techniques	Google Meet Google Class Room	Data and Computer Communications William	Slip Test
III	5	II	Asynchronous and Synchronous Transmission - Types of Errors - Error Detection - Error Correction - Line Configurations	Video Content Google Meet	Data and Computer Communications William	Slip Test

IV	5	III	Data Link Control Protocols - Flow control Error Control - High level Data Link control - Multiplexing - Frequency Division Multiplexing (FDM)	Black Board, Video Content, Google Meet	Data and Computer Communications Williams	Group Discussion
October I	5	III	Synchronous Time DM - Statistical Time DM - Asymmetric Digital Subscriber Line - xDSL - Spread Spectrum - The concept of Spread spectrum (SS)	Black Board, Google Meet	Data and Computer Communications Williams	Assignment
II	5	III	Frequency Hopping SS - Direct sequence SS - Code Division Multiple Access.	Black Board, Google Meet, Google classroom	Data and Computer Communications Williams	Quiz
III	5	IV	Circuit Switching and Packet switching - switched communication Networks. - Circuit switching Networks	Black Board, Google Meet	Data and Computer Communications Williams	Questionn - aires
IV	5	IV	Circuit Switching Concepts - Soft switch Architecture - Packet switching Principles - X.25 - Frame Relay - Asynchronous Transfer Mode	Video Content, Google Meet	Data and Computer Communications Williams	Quiz
November I	5	IV	Protocol Architecture - ATM logical connections - ATM cells - Transmission of ATM cells - ATM Service Categories.	Google Meet, Black board	Data and Computer Communications Williams	Slip Test
II	5	V	Routing in switched Networks - Routing in Packet switching Networks - Routing in ARPANET - Least Cost Algorithms - Congestion control in Data N/w	Chalk and Talk	Data and Computer Communications Williams	Assignment
III	5	V	Effects of Congestion - Congestion control Traffic Management - Congestion control in Packet switching Networks - Frame Relay Congestion control.	Google Meet	Data and Computer Communications Williams	Seminar
IV	-	V	ATM Traffic Management - ATM QoS	Google Meet		

Academic Year : 2021-2022
 Class : III B.Sc. Computer Science
 Subject : R Programming
 Hours / Week : 2
 Credits : 2

Semester : V
 Class Code : 1J2V183
 Subject Code : USC5H519
 Total Hours : 30
 Total Marks : 100

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
August I	2	I	Introduction to R-R Studio	Chalk and Talk LCD, PPT	Learning R Programming Kun Run	Assignment
II	2	I	Basic Objects: Vector, Matrix	Black Board	Learning R Programming Kun Run	Slip Test
IV	2	I	Array, Lists, Data Frames	Chalk and Talk	Learning R Programming Kun Run	Quiz
September I	2	I, IV	Functions - Practicals: Ex.1 Printing to the Screen	Chalk and Talk LCD	Learning R Programming Kun Run	Slip Test
II	2	II, IV	Basic Expressions: Assignment Expressions - Practicals: Ex.2 Sum of n numbers.	LCD, PPT	Learning R Programming Kun Run	Quiz
III	2	II, IV	Conditional Expressions-Loop Expressions - Practicals: Ex.3 Multiplication Table	Chalk and Talk LCD	Learning R Programming Kun Run	Slip Test

<u>IV</u>	2	<u>II, IV</u>	Basic Objects: Object Functions - logical Functions - Practicals: Ex 4 - largest Element in a list	LCD, PPT	Learning R Programming kunj Run	class Test
October <u>I</u>	2	<u>II, V</u>	Math Functions - Numeric Methods - Practicals: Ex. 5 Running Total of a list	Chalk and Talk LCD	Learning R Programming kunj Run	Debugging Test
<u>II</u>	2	<u>II, V</u>	Statistical Function - Apply Practicals: Ex. 6 - Test for Palindome	Chalk and Talk, LCD	Learning R Programming kunj Run	Assignment
<u>III</u>	2	<u>II, V</u>	Family Functions - Practicals: Ex. 7 Sorting Algorithm - Selection Sort, Insertion Sort	LCD, PPT	Learning R Programming kunj Run	Quiz
<u>IV</u>	2	<u>III, V</u>	Working with strings Practicals: Ex. 8 - Bubble Sort	Chalk and Talk, PPT	Learning R Programming kunj Run	Slip T
November <u>I</u>	2	<u>III, V</u>	Working with Data Practicals: Ex: 8 - Linear Search	LCD, PPT	Learning R Programming kunj Run	Group Discus
<u>II</u>	2	<u>III, V</u>	Meta Programming Practicals: Ex: 9 - Binary Search	Chalk and Talk	Learning R Programming kunj Run	Seminar
<u>III</u>	2	<u>III, V</u>	Object Oriented Programming Practicals: Ex: 10 - Matrices Addition, Subtraction and Multiplication	Chalk and Talk, LCD	Learning R Programming kunj Run	Seminar
<u>IV</u>						

Academic Year : 2021-2022
 Class : M.Sc. Computer Science
 Subject : Research Methodology
 Hours / Week : 5
 Credits : 5

Class Code : nw2vwn1
 Subject Code : pccsc20
 Total Hours : 75
 Total Marks : 100

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
August <u>I</u>	5	<u>I</u>	Research - Definition - Importance and meaning of Research - Characteristics - His - Types - Steps in Research	Smart Board	RM Methods and Techniques C.R. Kothari	Slip Test
<u>II</u>	5	<u>I</u>	Research Process - An overview - Identification of Research Area	Smart Board	RM Methods and Techniques C.R. Kothari	Quiz
<u>III</u>	5	<u>I</u>	Selection and Formulation of Research Problem - Formulation of objectives	LCD, PPT	RM Methods and Techniques C.R. Kothari	Group Discussion
September <u>I</u>	5	<u>II</u>	Review of literature - Course work - literature survey	Interactive Board	RM step by step Guide Ranjit Kumar	Assignment
<u>II</u>	5	<u>II</u>	Web Browsing - Efficient searching - Online Resources - Reading a Research Paper - Scopus tool	Interactive Board	E-Resource RM step by step Guide Ranjit Kumar	Group Discussion
<u>III</u>	5	<u>II</u>	Develop a theoretical framework - Improve your methodology	LCD PPT	RM step by step Guide Ranjit Kumar	Slip Test

<u>IV</u>	5	<u>III</u>	Preparing the research design - Data Collection and Preparation	Google Slides	RM Methods and Techniques C.R. Kulkarni	Quiz
October <u>I</u>	5	<u>III</u>	Experimental study - Result Analysis and Discussions - Writing a Research Paper	Interactive Board	RM step by step Guide Ranjit Kumar	Question - answer
<u>II</u>	5	<u>III</u>	Publishing the Results - IEEE format - Latex tool	LCD, PPT	E-Resources	Slip Test
<u>III</u>	5	<u>IV</u>	Significance of Report writing - Different steps - Layout - Types of Reports - Oral Presentation	Chalk and Talk	RM Methods and Techniques C.R. Kulkarni	Quiz
<u>IV</u>	5	<u>IV</u>	Mechanics of writing a Research Report - Precautions - Ethical issues in Research	Interactive Board	RM step by step Guide Ranjit Kumar	Group Discussion
November <u>I</u>	5	<u>IV</u>	Patent Registration Procedure - Funding agencies - Writing Research Proposals - Effective Presenting Methods	Chalk and Talk Google Slides	E-Resources RM step by step Guide R. Kumbh	Slip Test
<u>II</u>	5	<u>V</u>	Various Research Areas in Image Processing, Networks and security	Interactive Board	E-Resource	Seminar
<u>III</u>	5	<u>V</u>	Data Mining and Machine learning - Wireless and sensor systems - Audio, speech, language and signal Processing	Interactive Board	E-Resource	Seminar
<u>IV</u>	5		Revision			

Academic Year : 2021-2022
 Class : III B.Sc. Computer Science
 Subject : Internet and Web Programming
 Hours / Week : 5 Hours
 Credits : 5

Class Code : V081NS9
 Subject Code : UCCSR19
 Total Hours : 90
 Total Marks : 100

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
February III	5	I	Introduction - Values - Numbers - Strings - Unary operators - Boolean Values - Empty values - Automatic type conversion - Program structure - Expression and statements.	Classroom Teaching	Eloquent Javascript Marijn	Slip Test
March I	5	I	Bindings and Names - Environment - Functions - console.log function - Return Values - control flow - conditional Execution - While and Do loop - Indenting Code	Interactive Board	Eloquent Javascript Marijn	Group Discussion
II	5	I, II	for loop - updating - Comments - Functions - scope - Functions by Value - Declaration Notation - Arrow functions - Call stack - Optional Arguments - closure - Recursion	Interactive Board	Eloquent Javascript Marijn	Assignment
III	5	II	Growing functions - Data structures - Objects and Arrays - The Weresquirrel - Dataset - Properties - Methods - Objects	Classroom Teaching	Eloquent Javascript Marijn	Quiz
IV	5	II	Mutability - Lychauntopes's log - Computing Correlation - Array loops - Final Analysis - Further Arrayology	Classroom Teaching	Eloquent Javascript Marijn	Question -naires
April I	5	II	Strings and their properties - Rest parameters - Math functions - Destructuring - JSON	Interactive Board	Eloquent Javascript Marijn	Quiz

April <u>II</u>	5	<u>III</u>	Web Server - Apache - PHP Introduction - PHP Install - PHP Syntax PHP variables - PHP Echo/Print	Class Room Teaching	Web Application Development Svan Bayross	Group Discussion
<u>III</u>	5	<u>III</u>	Data types - strings - Constants - Operators Control structures - Functions - Directory functions - File System Functions	Interactive Board	Web Application Development Svan Bayross	Slip Test
<u>IV</u>	5	<u>III</u>	PHP Arrays - Sorting arrays - PHP Super Global - string functions - Date and time functions - Mathematical functions - Miscellaneous functions.	Interactive Board	Web Application Development Svan Bayross	Quiz
May <u>I</u>	5	<u>IV</u>	Basic form Processing - Get and Post method - PHP form handling - PHP form validation - PHP form required - URL	Class Room Teaching	Web Application Development Svan Bayross	Question -naire
<u>II</u>	5	<u>IV</u>	Email - Form Complete - PHP MySQL Functions - Connect - create DB - create table - Insert Data	Interactive Board	Web Application Development Svan Bayross	Slip Test
<u>IV</u>	5	<u>IV</u>	Get last id - Insert Multiple - Prepared select data - Delete Data - Update data - limit data - Table Join - Database driven application	Interactive Board	Web Application Development Svan Bayross	Quiz
June <u>I</u>	5	<u>V</u>	PHP Arrays - Multi - PHP Date and time - PHP include - file handling - file open/Read - file create/write	Interactive Board	E Resource	Slip Test
<u>II</u>	5	<u>V</u>	PHP file upload - PHP cookies - sessions - Filters - Filters Advanced - error handling - Exceptions - curl/openssl/CURL/soap	Class Room Teaching	E Resource	Quiz

Class : III B.Sc. Computer Science
 Subject : Cloud Computing
 Hours / Week : 5
 Credits : 5

Semester : VI
 Class Code : 52552CW
 Subject Code : VECSCI9
 Total Hours : 90
 Total Marks : 100

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
February <u>III</u>	5	<u>I</u>	Technologies for Network based System System models for Distributed and cloud computing - NIST cloud computing reference Architecture. Cloud Models: characteristics	class room Teaching	Distributed and cloud Computing - kai	Slip Test
March <u>I</u>	5	<u>I</u>	cloud services - cloud Models (SaaS, PaaS, SaaS) - Public vs Private cloud - cloud solutions - cloud Ecosystem	Interactive Board	Distributed and cloud Computing Kai	Quiz
<u>II</u>	5	<u>I, II</u>	Service Management - Computing on demand. Basics of Virtualization - Types - Implementation levels - structures	class room Teaching	Essentials of cloud computing k. Chandrasekaran	Question -naire
<u>III</u>	5	<u>II</u>	Tools and Mechanisms - Virtualization of CPU, Memory, I/O Devices - Virtual clusters and Resource Management Virtualization for Data Center Automation.	Interactive Board	Essentials of cloud computing k. Chandrasekaran	Quiz
<u>IV</u>	5	<u>III</u>	cloud computing and service models - Architectural design of compute and storage clouds.	Interactive Board	Essentials of cloud computing k. Chandrasekaran	Slip Test
April <u>I</u>	5	<u>III</u>	layered cloud Architecture Development - Design challenges	class room Teaching	Distributed and cloud computing kai	Quiz

April <u>II</u>	5	<u>III</u>	Inter cloud Resource Management - Public cloud Platforms: GAE, AWS and AZURE	Interactive Board	Distributed and cloud computing kai	Slip Test
<u>III</u>	5	<u>IV</u>	Parallel and Distributed Programming Paradigms - MapReduce, Twisted, Iterative MapReduce - Hadoop library from Apache	Interactive Board	Distributed and cloud Computing kai	Quiz 2
<u>IV</u>	5	<u>IV</u>	Mapping Applications - Programming support - Google App Engine, Amazon AWS	Class room Teaching	Distributed and cloud Computing kai	Group Discussi
May <u>I</u>	5	<u>IV</u>	Cloud software Environments - Eucalyptus, Open Nebula, Openstack, Aneka, CloudSim.	Class room Teaching	Distributed and cloud Computing kai	Slip Test
<u>II</u>	5	<u>V</u>	Security overview - Cloud security challenges and Risks, Software-as-a-Service Security	E-Resources using Smart Board	EResource	Quiz
<u>IV</u>	5	<u>V</u>	Security Governance - Risk Management - Security Monitoring - security Architecture Design	Interactive Board	CC Implementation, Management and Security John	Seminar
June <u>I</u>	5	<u>V</u>	Data security - Application Security - Virtual Machine security	Class room Teaching	CC Implementation Management x security John	Seminar
<u>II</u>	5	<u>V</u>	Identity Management and Access Control - Autonomic Security.	Interactive Board	CC Implementa tion, Management and security John	Slip Test

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Academic Year : 2021 - 2022

Class : III B.Sc. Computer Science Semester : V
Class Code : 9025huj

Date	Class	Topic Covered	Learning Resources	Teaching Methodology
9/8/21 to 13/8/21	III B.Sc.	Data Networking and Internet - Data Communications and Networking (DCN) for Today's Enterprise.	Text Book	Chalk and Talk
16/8/21 to 20/8/21	III B.Sc.	Communications Model - Data Communications Networks - The Internet Protocol Architecture.	E Resource Text Book	Smart Board
23/8/21 to 27/8/21	III B.Sc.	TCP/IP and Internet based applications - How - Need - the OSI model. Traditional Internet based applications	Text Book	Smart Board
31/8/21 to 4/9/21	III B.Sc.	Multimedia - Concepts and Terminology - Analog and Digital Data Transmission - Impairments - channel Capacity	Text Book	Chalk and Talk
6/9/21 to 9/9/21	III B.Sc.	Transmission Media - Guided Transmission media - Wireless propagation - Line of Sight Transmission	E Resource Text Book	Smart Board
13/9/21 to 18/9/21	III B.Sc.	Signal Encoding Techniques - Digital Analogue Data Signals - Communication Techniques - Asynchronous Synchronous Trans.	Google Slides	Smart Board
20/9/21 to 21/9/21	III B.Sc.	Types of Error - Detection Correction - Line Configuration Revision for II CA	Google Slides	Smart Board
30/9/21 to 1/10/21	III B.Sc.	Data Link Control Protocols - Flow Control - Error Control - High level Data Link Control - Frequency	Text Book	Chalk and Talk
4/10/21 to 5/10/21	III B.Sc.	Division Multiplexing (DM) - Synchronous Time DM - Statistical Time DM - Asymmetric Digital subscriber line	Text Book	Chalk and Talk
11/10/21 to 16/10/21	III B.Sc.	XDSL - Concept of Spread Spectrum (SS) - Frequency Hopping SS - Direct Sequence SS - Code Division Multiple Access.	E Resource	Smart Board
18/10/21 to 23/10/21	III B.Sc.	Circuit switching and Packet switching - switched communications Networks - Circuit switching Networks/Concepts	E Resource	Smart Board
25/10/21 to 30/10/21	III B.Sc.	Softswitch Architecture - Packet switching Principles - X.25 Frame Relay	Text Book	Chalk and Talk
1/11/21 to 6/11/21	III B.Sc.	Asynchronous Transfer Mode (ATM) Protocol, Architecture - ATM logical connections - ATM cells	Text Book	Chalk and Talk
8/11/21 to 12/11/21	III B.Sc.	ATM Service Categories. Routing in switched Networks.	Text Book	Chalk and Talk
15/11/21 to 20/11/21	III B.Sc.	Routing in Packet switching Networks - Routing in ARPANET - Least Cost Algorithms	Text Book	Chalk and Talk

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Academic Year : 2021-2022

Semester : V

Class : III B.Sc. Computer

Class Code : 4j3vx3j

Date	Class	Topic Covered	Learning Resources	Teaching Methodology
9/8/21 to 13/8/21	<u>III</u> B.Sc.	Introduction to R - R Studio Basic Objects: Vectors, Matrix	Text Book	Chalk and Talk
6/8/21 to 21/8/21	<u>III</u> B.Sc.	Arrays, Lists, Data Frames Exercise: 1	Text Book Program	LCD
3/8/21 to 27/8/21	<u>III</u> B.Sc.	Functions - Basic Expressions Assignment Expressions	Text Book	Chalk and Talk
3/8/21 to 4/9/21	<u>III</u> B.Sc.	Conditional Expressions - Object functions	Text Book	Chalk and Talk
6/9/21 to 11/9/21	<u>III</u> B.Sc.	Logical Functions - Many Functions	Text Book	Chalk and Talk
3/9/21 to 8/9/21	<u>III</u> B.Sc.	Statistical Functions - Apply Exercise: 2	Text Book Program	LCD
20/9/21 and 21/9/21	<u>III</u> B.Sc.	Family Functions Exercise: 3	Text Book Program	LCD
30/9/21 to 10/10/21	<u>III</u> B.Sc.	Working with strings Exercise: 4	Text Book Program	LCD
1/10/21 to 1/10/21	<u>III</u> B.Sc.	Working with Data	Text Book	Chalk and Talk
1/10/21 to 1/10/21	<u>III</u> B.Sc.	Meta Programming	Text Book	Chalk and Talk
1/10/21 to 3/10/21	<u>III</u> B.Sc.	Object oriented programming	Text Book	Chalk and Talk
5/10/21 to 20/10/21	<u>III</u> B.Sc.	Exercise: 5	Program	LCD
1/11/21 to 20/11/21	<u>III</u> B.Sc.	Exercise: 6	Program	LCD
3/11/21 to 2/11/21	<u>III</u> B.Sc.	Exercise: 7	Program	LCD
5/11/21 to 20/11/21	<u>III</u> B.Sc.	Exercise: 8	Program	LCD

Academic Year : 2021 - 2022

Semester : I

Class

: I M.Sc. Computer Science Class Code : NWZVWNI

Date	Class	Topic Covered	Learning Resources	Teaching Methodology
3/8/21 to 7/8/21	I M.Sc.	Research - Definition - Importance and meaning - characteristics.	Text Book	Chalk and Talk
11/8/21 to 19/21	I M.Sc.	Types - Steps - Research Process - Overview & Identification of Research Area.	Text Book	Chalk and Talk
1/9/21 to 11/9/21	I M.Sc.	selection and formulation of Research problem	Text Book	chalk and Talk
3/9/21 to 8/9/21	I M.Sc.	Formulation of objectives - Review of literature	Text Book	Chalk and Talk
10/9/21 to 5/9/21	I M.Sc.	Course work - literature Survey - Web browsing - Efficient searching.	Text Book	Chalk and Talk
7/9/21 to 1/10/21	I M.Sc.	Online Resources - Reading a Research paper - Scopus Tool.	E-Resource	Smart Board
1/10/21 to 1/10/21	I H.Sc.	Preparing the Research Design - Data Collection and Preparation.	Text Book	Smart Board
1/10/21 to 6/10/21	I H.Sc.	Experimental study - Analysis and Discussions.	Text Book	Smart Board
8/10/21 to 3/10/21	I M.Sc.	Writing a Research Paper - Publishing the Results.	E Resource	Chalk and Talk
5/10/21 to 20/10/21	I M.Sc.	IEEE Format - latex Tool.	E Resource	Smart Board
1/11/21 to 1/11/21	I M.Sc.	Significance of Report writing. Different steps.	Text Book	Chalk and Talk
1/11/21 to 2/11/21	I M.Sc.	Layout - Types of Reports	Text Book	Chalk and Talk
5/11/21 to 20/11/21	I M.Sc.	Oral Presentation - Mechanics of writing a Research Report	Text Book	Smart Board
2/11/21 to 7/11/21	I M.Sc.	Precautions - Ethical issues in Research.	Text Book	Smart Board
9/11/21 to 1/12/21	I M.Sc.	Patent Registration Procedure Funding Agencies.	E Resource	Smart Board

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Academic Year : 2021 - 2022

Class : III B.Sc. Computer Science

Semester : VI

Class Code : ydglnsq

Date	Class	Topic Covered	Learning Resources	Teaching Methodology
3/2/22 to 6/2/22	<u>III</u> B.Sc.	Introduction - values - Numbers - Strings - operators - Boolean - Empty values - type conversion - Program structures	Text Book E-Resource	Smart Board
8/2/22 to 13/22	<u>III</u> B.Sc.	statements - Binding values - Functions as value - console - values - control flow - Condi - Hous - indenting - for loop - Update - Comment	Text Book	class room Teaching
13/22 to 2/3/22	<u>III</u> B.Sc.	Binding and scope - Declaration notation - Arrow function - call stack - Optional argument - closure - Recursion.	Text Book Google Slides	Smart Board
4/3/22 to 8/3/22	<u>III</u> B.Sc.	Growing function - Data structure - Object and Array - Where Squared - Data Set - Properties - Method - Object	Text Book E-Resource	Smart Board
11/3/22 to 6/3/22	<u>III</u> B.Sc.	Mutability - Lycanthropes log - Computing correlation - Array Loop - Final Analysis Further Arrayology - Strings and their properties	Text Book	Chalk and Talk
8/3/22 to 10/3/22	<u>III</u> B.Sc.	Web server - Apache - PHP Introduction - PHP install - PHP syntax - PHP variables - PHP echo/print	Text Book	Chalk and Talk
14/22 to 14/22	<u>III</u> B.Sc.	Data types - strings - Constants - operators - Control structures - functions - File system functions	Google Slides	Smart Board
14/22 to 3/4/22	<u>III</u> B.Sc.	PHP Arrays - Sorting Arrays - PHP Super Global - string functions - Date and Time functions - Mathematical - Miscellaneous.	E-Resource	Smart Board
5/4/22 to 10/4/22	<u>III</u> B.Sc.	Basic form processing - Get and Post method - PHP form handling - PHP form validation - PHP form required - URL	Text Book	Smart Board
15/22 to 15/22	<u>III</u> B.Sc.	Email - PHP form complete - PHP MySQL functions - Connect - Create DB - Create table - Insert data	E-Resource	Smart Board
15/22 to 15/22	<u>III</u> B.Sc.	Get last Id - insert multiple - Prepared - select data - delete data - update data - limit data - Table Join	E-Resource	Smart Board
15/22 to 15/22	<u>III</u> B.Sc.	Database driven applications - PHP Arrays - Date and Time - PHP include - File handling	E-Resource	Smart Board
3/5/22 to 5/5/22	<u>III</u> B.Sc.	File handling operations - Open/Read - File create	Google Slides	Smart Board
16/22 to 16/22	<u>III</u> B.Sc.	PHP file upload - PHP Cookies - Sessions - Filters PHP	E-Resource	Smart Board
16/22 to 16/22	<u>III</u> B.Sc.	Advanced Filters - PHP Error handling operations - Exceptions - COM/DOM/CURL/SOAP	Google Slides	Smart Board

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Academic Year : 2021-2022

Semester : VI

Class : III B.Sc. Computer Science

Class Code : 5n5actw

Date	Class	Topic Covered	Learning Resources	Teaching Methodology
23/2/22 to 26/2/22	III B.Sc.	Technologies for Network Based systems - system models for Distributed and cloud computing	E-Resource	Smart Board
28/2/22 to 5/3/22	III B.Sc.	NIST cloud computing Reference Architecture. Cloud Models: charac-teristics - cloud services	Text Book E-Resource	Chalk and Talk
8/3/22 to 12/3/22	III B.Sc.	Cloud Models (IaaS, PaaS, SaaS) - Public vs Private cloud - cloud solutions - cloud ecosystem - Service Management	Text Book E-Resource	Smart Board
14/3/22 to 18/3/22	III B.Sc.	cloud on demand - Basics of Virtualization - Types - Implementation Levels - structures	Text Book	Chalk and Talk
21/3/22 to 26/3/22	III B.Sc.	Tools and Mechanisms - Virtualization of CPU, Memory, I/O Devices - Virtual clusters and Resource Management	Text Book	Chalk and Talk
28/3/22 to 30/3/22	III B.Sc.	Virtualization for Data-Center Automation	Google Slides	Smart Board
8/4/22 to 14/4/22	III B.Sc.	cloud computing and service models - Architectural design of compute and storage clouds - layered cloud Archi	Text Book	Smart Board
18/4/22 to 23/4/22	III B.Sc.	Design challenges - Inter cloud Resource Management - Public Cloud Platforms: GAE, AWS and AZURE	Google Slides	Smart Board
25/4/22 to 30/4/22	III B.Sc.	Parallel and Distributed Programming Paradigms - MapReduce, Twister and Iterative MapReduce - Hadoop library	Text Book	Smart Board
2/5/22 to 7/5/22	III B.Sc.	Mapping Applications - Programming support - Google App Engine, Amazon AWS.	E-Refer-ence	Smart Board
9/5/22 to 14/5/22	III B.Sc.	Cloud software environments: Eucalyptus, Open Nebula, Open stacks, Aneka, cloud Sim	Text Book	Smart Board
16/5/22 to 19/5/22	III B.Sc.	Security Overview - cloud security challenges and Risks - SaaS security.	E-Resource	Smart Board
23/5/22 to 25/5/22	III B.Sc.	Security Governance, Risk Management - Security Monitoring	Text Book	Smart Board
3/6/22 and 4/6/22	III B.Sc.	Security Architecture Design - Data Security - Application security - Identity Management and Access Control	Google Slides	Smart Board
6/6/22 to 10/6/22	III B.Sc.	Autonomic Security.	Google Slides.	Smart Board.



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Gandhi Nagar, Vellore - 632 006.

FACULTY RECORD

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ERP. ID : AUXMCA068

Institutional Responsibility	Department Responsibility
1. Dean of Science 2. Research & Innovation Committee Member	1. DQAC Member 2. II CS class Tutor 2.1 - Extension Activity 2.2. Online Spoken Tutorial

ODD SEMESTER

Hour / Day Order	1	2	3	4	5
I	VB.Net	Complex Design		Computer Architecture	
II	Computer Architecture		Compiler Design		
III		Compiler Design	V. E	Computer Architecture	
IV	Compiler Design		Computer Architecture		II SBE Web Des
V	Compiler Design		Computer Architecture	VB.Net Lab	
VI			VB.Net		II SBE Web Des

EVEN SEMESTER

Hour / Day Order	1	2	3	4	5
I	Linux		Data Mining		
II	Data Mining			Linux	Data Mining
III	Data Mining		V. E		
IV	Data Mining			Linux Lab	
V			C# Lab	Lab Help	
VI		Lab Help		Linux	

LESSON PLAN

Academic Year : 2021-2022
 Class : II M.Sc
 Subject : Principles of Compiler Design
 Hours / Week : 5
 Credits : 4

Semester : III
 Class Code : 09
 Subject Code : PCCSN20
 Total Hours : 75
 Total Marks : 100

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
Aug II, III	5	I	Introduction : The structure of a Compiler - Lexical Analysis - Recognition	Google meet, Black Board	Alfred V. Aho Compiler Principles	Test
III	5	I	Boot Strap - Syntax Analysis - Semantic Analysis - Tokens Specification	Google meet Black Board	F-Resources, Study Book	Test, Questions
IV & V	5	I	Intermediate Code Generation - Code optimization - Code Generation	Black Board, videos	Study Book, F-Resources	Assignment
Sep I	5	II	Symbol Table management - The grouping of phases into Passes - Finite Automata - NFA	Black Board, Google meet	Alfred V. Aho Compiler Design Principles	Class Test, Online Test
I	5	II	Compiler Tools - History - Lexical Analysis Role, Input Buffering	Black Board, Youtube videos	Study Book, Youtube videos	Quiz, Class Test
II	5	II	DFA - Construction of an NFA from a Regular Expression	Black Board, Google	Study Book, F-Resources	Test

OCT I & II	5	III	Syntax Analyser: Introduction - Context-Free Grammar.	Black Board	Compiler Design Book, F-Resources	Online Test
III & IV	5	II	Top-Down Parsing - Bottom-up Parsing.	Videos, Black Board	Compiler Design, F-Resources	Oral Test
III & IV	5	III	Introduction to LR parsing (Simple LR)	Black Board, videos	Compiler Design, F-Resources	Class Test
NOV I	5	IV	Intermediate Code Generation: Variants of syntax trees.	Google meet, Black Board	Study material, Videos	Assignments
II	5	IV	Addressing Code (Three) - Types and Declarations.	Black Board, Videos	Study Material	Class Test
III	5	IV	Translation of Expressions.	Youtube Videos, Black Board	Compiler Design Book	Class Test
DEC I	5	V	Code Generation: Design, Basic Blocks and flow graphs - Optimization - peephole optimization	Black Board, Youtube Videos	Compiler Design Book	Online quiz
II	5	V	Principles - Introduction to dataflow Apply Basic knowledge to symbol tables.	Black Board, Google meet	F-Resources, Study material	Class Test
III	5	VI	Local Analysis: Intermediate Code Generation - Top Down	Google meet, Black Board	Study material, F-Resources	Assignments

LESSON PLAN

Academic Year : 2021-2022
 Class : III B.Sc
 Subject : Elective IA : Computer Architecture
 Hours / Week : 75
 Credits :

Semester : V
 Class Code :
 Subject Code : UECSA19
 Total Hours : 75
 Total Marks : 100

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
Aug II, III	5	I	Basic Computer Organization & Design: Instruction Codes - Computer Registers - Computer Instructions.	Google meet Black Board	Computer System Organization, I- Resources.	Online Test Oral Test
III	5	I	Timing and Control - Instruction cycle - Memory - Reference Instructions.	Google meet Black Board	Computer System Organization, I- Resources.	Online Test Oral Test
IV & V	5	I	Programming the Basic Computer: Introduction - Assembly Language - The Assembler.	Google meet Youtube Videos	I- Resources, Computer System Organization.	Assessment
Sep I	5	II	Program Loops - Programming Arithmetic & Logic Operations - Subroutines.	Black Board PPT	I- Resources, Computer System Organization.	Oral Test.
II	5	II	Input - Output Programming Micro Programmed Control: Control memory - Address sequencing - MicroExample - Design.	Black Board Google meet	Computer System Organization, I- Resources.	Oral Test
III	5	III	Central Processing Unit: Introduction - General Register Organization - Stack Organization.	Black Board	Computer System Organization, I- Resources.	Oral Test

Academic Year : 2021-2022
 Class : III B.Sc
 Subject : Elective IA : Computer Architecture
 Hours / Week : 75
 Credits :

Semester : V
 Class Code :
 Subject Code : UECSA19
 Total Hours : 75
 Total Marks : 100

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
Aug II, III	5	I	Basic Computer Organization & Design: Instruction Codes - Computer Registers - Computer Instructions.	Google meet Black Board	Computer System Organization, E-Resources.	Online Test Oral Test
III	5	I	Timing and Control - Instruction cycle - memory - Reference Instructions.	Google meet Black Board	Computer System Organization, E-Resources.	Online Test Oral Test
IV & V	5	I	Programming the Basic Computer: Introduction - Assembly Language - The Assembler.	Google meet Youtube Videos	E-Resources, Computer System Organization.	Assessment
Sep I	5	II	Program Loops - Programming Arithmetic & Logic Operations - Subroutines.	Black Board PPT	E-Resources, Computer System Organization.	Oral Test.
II	5	II	Input - Output Programming Micro Programmed Control: Control memory - Address sequencing - MicroExample - Design.	Black Board Google meet	Computer System Organization, E-Resources.	Oral Test
III	5	III	Central Processing Unit: Introduction - General Register Organization - Stack Organization.	Black Board	Computer System Organization, E-Resources.	Oral Test

Oct I & II	5	III	Instruction formats - Addressing modes - Data Transfer & Manipulation	PPT Black Board	Computer System Organization.	Class Test Oral Test
II & III	5	III	Data Transfer and Manipulation - Program Control - Risc	Black Board Interactive Board	Computer System Organization.	Class Test
III & IV	5	III	Address sequencing - Micro Program Example - Design of Control Unit.	Black Board &	Study Material, F-Resources.	Oral Test
Nov I	5	II	Input-Output Organization: Peripheral Devices - Input Output Interface.	Black Board	F-Resources, Computer System Organization.	Class Test
II	5	IV	Asynchronous Data Transfer - Modes of Transfer.	Black Board Videos	Study Material, Computer System Organization.	Class Test
III	5	IV	Priority Interrupt - Direct memory Access.	Black Board Youtube Videos	Computer System Organization, F-Resources.	Oral Test
Dec I	5	V	Memory Organization: memory Hierarchy - main memory	Lecture method	Computer System Organization.	Class Test
II	5	V	Auxiliary memory - Associative memory - Cache memory.	Black Board PPT	F-Resources, Study Material	Class Test
			Virtual memory -	Black Board	Computer System	Class Test

LESSON PLAN

Academic Year : 2021-2022
 Class : II B.Sc. Computer Science
 Subject : SBE: Basics of Web Design
 Hours / Week : 2
 Credits : 2

Semester : III
 Class Code : 18
 Subject Code : USC5A320
 Total Hours : 30
 Total Marks : 100

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
Aug I, II	2	I	Introduction: HTML - HTML Tags - Creating HTML, Head, Body Section	Online Teaching E-Resources	Step by step HTML 5	Online Test
III	2	I	Creating paragraphs & Line Breaks Formatting Text	Online Teaching	step by step HTML 5	Oral Test
IV, V	2	I	Creating Headings Apply Formatting - Superscript & subscript	Online Teaching	E-Resources step-by-step HTML 5	Online Test
Sep I	2	II	List and Background, Bulleted, Numbered List, Definition List	Black Board	Step-by-Step HTML 5	Oral Test
II	2	II	Choosing Background & Foreground Colors - Hyperlink, Anchors.	Online Teaching	E-Resources Step-by-Step HTML 5	Oral Test
III	2	II	Introduction to stylesheet Creating Tables.	Black Board	Step-by-Step HTML 5	Class Test

Oct I & II	2	III	XML Overview: Basics, Namespaces, XML Trees, Syntax.	Online Teaching	E-Resources HTML5 Black Book	Online Assessment
II & III	2	III	XML Elements - DTD XML Schema	Online Teaching	E-Resources HTML5 Black Book	Online & Oral Test
III & IV	2	III	Extensible Style sheet XSL Transformation	Black Board	HTML5 Black Book	Class Test
Nov I	2	IV	Lab Programs	Lab Practical	E-Resources & Study material	Lab Test
II	2	IV	Lab Programs	Practical	E-Resources	Lab Test
III	2	IV	Lab Programs	Practical	E-Resources	Lab Test
Dec I	2	V	Lab Programs	Practical	E-Resources	Lab Test
II	2	V	Lab Programs	Practical	E-Resource	Lab Test
III	2	V	Lab Programs	Practical	E-Resource	Lab Test

LESSON PLAN

Academic Year : 2021-2022
 Class : II B.Sc (CS)
 Subject : Practical VI: Windows Programming with VB.NET
 Hours / Week : 4 (Theory-2, Practical-2)
 Credits : 2

Semester : III
 Class Code :
 Subject Code : VCCS20
 Total Hours : 60
 Total Marks : 100

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
Aug I, III	2	I	Introduction to .net framework Visual Studio IDE	Online Teaching	VB.Net Black Book Series	Online Oral Test
II	2	I	Introduction to vb.net, vb.net fundamentals, Variables	Online Teaching Youtube Videos	E-Resources, VB.Net Black Book Series	Online Oral
IV, V	2	I	Data Types, Array, Control Flow, Function & Procedures.	Online Teaching	E-Resources, VB.Net Black Book Series	Online Oral Test
Sep I	2	II	Implementing oops in VB.net, Classes, Constructors, Inheritance	Online Teaching	VB.net Black Book Series	Online Test
II	2	II	Static class, Interface, Exception Handling, Collection, Arrays.	Black Board	VB.Net Black Book Series	Online Test Class Test
III	2	II	Handling character, strings & Dates, File I/O operations.	Black Board	VB.Net Black Book Series	Class Test

Oct 26-27	2	III	Overview of windows programming Event driven programming, GUI concepts	Online Teaching	E-Resources VB.Net Black Book Series	Quiz
III & III	2	III	Data Types - Resources - Windows message, Basic Drawing: A DI - Device Context	Black Board	VB.Net Black Book Series	Class Test
III & IV	2	III	Dots & Lines: Creating the window, Displaying the window.	Online Teaching	E-Resources VB.Net Black Book Series	Oral online Test
Nov 1	2	IV	Text Obj, Scroll Bar, Keyboard, Mouse.	Black Board	VB.Net Black Book Series	Class Test
II	2	IV	menus - Lab programs	Black Board, Practical	VB.Net Black Book Series Online Resources	Practical
III	2	IV	Lab Programs	Practical	E-Resources	Practical
Dec 1	2	V	Lab Programs	Practical	E-Resources	Practical
II	2	V	Lab programs	Practical	E-Resources	Practical
III	2	V	Lab programs	Practical	E-Resources	Practical

LESSON PLAN

Academic Year : 2021-2022
 Class : II B.Sc. Computer Science
 Subject : Operating Systems
 Hours / Week : 4
 Credits : 4

Semester : IV
 Class Code : 18
 Subject Code : UCCS120
 Total Hours : 60
 Total Marks : 100 (60+40)

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
Feb IV	4	1	Introduction - Brief History, Unix Components / Architecture.	Lecture Method	Unix & Shell Programming Behrouz A. Forouzan	Oral Test
Mar I	4	1	Features of Unix. Basic commands Pwd, cd, mv, cp, rm, mkdir, rmdir.	Demonstration	Unix & Shell Programming Behrouz A. Forouzan	Oral Test
II	4	1 & 2	chmod, full & Relative Pathname, Shell programming Language.	Demonstration	Unix & shell Programming	Class Test
III	4	2	Shell Variables and Arguments Command line Arguments, Naming Conventions, Wildcard Characters.	Lecture Method	Unix & shell Programming	Oral Test
IV	4	2	Looping and Conditions / Execution while, until, case, break & continue, true & false commands.	Demonstration	Unix & Shell Programming	Class Test
Apr I			I - CA			

Apr II	4	3	System calls, Process Management, I/O, Multithread programming, Process Scheduling	Lecture method	Operating system concepts - Silberschatz	Class Test
III	4	3	Dead lock, Deadlock Avoidance, Memory management, Swapping	Presentation	Operating System	Oral Test
IV	4	4	Contiguous Memory Allocation, Paging, segmentation, Virtual memory.	Lecture method	Operating System	Oral Test
May I	4	4	Demand Paging, Page Replacement, Thrashing.	Presentation	Operating System	Oral Test.
II			II - CA			
III	4	5	File System, Access methods, Directory Structure, Implementing file system	Lecture method	Operating System	Class Test
IV	4	5	Allocation Methods, free Space Management, Secondary Storage Structure.	Lecture method	Operating System	Oral Test
June I	4	5	Disk Structure, Disk Scheduling.	Presentation	Operating System	Class Test
II	4		Revision			

LESSON PLAN

Academic Year : 2021-2022
 Class : III B.Sc. Computer Science
 Subject : Elective : Data Mining
 Hours / Week : 5
 Credits : 5

Semester : VI
 Class Code : 18
 Subject Code : UECSEF19
 Total Hours : 75
 Total Marks : 100 (60+40)

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
Feb IV	5	I	Basic Data Mining Tasks - Data Mining Vs Knowledge Discovery - Data Mining Issues	Lecture Method	Data Mining - Margaret A. Dunham	Oral Test
Mar I	5	I	Data Mining Metrics, Data Mining from a Database perspective. Data Mining Techniques	Lecture method	Data Mining	Class Test
II	5	I & II	Statistical Perspective on Data Mining Similarity measures, NN, Genetic Algorithms	Presentation	Data Mining	Oral Test
III	5	II	Clustering - Similarity & Distance measures - Outliers - Hierarchical Algorithms Partitional Algorithms - Association Rule.	Lecture method	Data Mining	Class Test
IV	5	II	Large Item sets - Parallel & Distributed Algorithm - Rule Based Algorithms Combining Techniques.	Lecture method	Data Mining	Class Test
Apr I			I - CA			

Apr II	5	III	Clustering: Introduction Similarity and Distance measures, Outliers, Hierarchical Algorithms - Partitional Algs	Lecture method	Data Mining Margaret H. Dunham	Oral Test
III	5	III	Association Rules: Introduction Large Itemsets - Basic Algorithms Parallel & Distributed Algs, Comparing Approaches	Presentation	Web content	Oral Test
IV	5	III & IV	Incremental Rules - Advanced Association Rule Techniques Measuring the Quality of Rules	Presentation	Data Mining Book	Class Test
May I	5	IV	Spatial Mining: Introduction, Data Overview - Primitives - Generalization - Rules	Lecture method	Data Mining Book	Class Test
II			II - CA			
III	5	IV	Classification Algorithms - Clustering Algorithms	Lecture method	Data Mining Book	Oral Test
IV	5	V	Temporal Mining: Introduction - modeling Temporal Events - Time Series - Pattern Series - Detection - Sequences	Presentation	Web content	Oral Test
June I	5	V	Temporal Association Rules. Revision.	Lecture method	Data Mining	Class Test

LESSON PLAN

Academic Year : 2021-2022
 Class : III B.Sc. CC
 Subject : SBE: Visual Programming Using C#
 Hours / Week : 2
 Credits : 2

Semester : V
 Class Code : 18
 Subject Code : VSCCF619
 Total Hours : 30
 Total Marks : 60

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
Feb IV	2	I e III	Introduction - C# - XML - Introduction to Microsoft .Net, Lab Programs.	Lecture method	C# delo for programmers	Lab practical
March I	2	II e III	The .Net framework and the common Language Runtime - Lab Programs.	Demonstration	C# delo for programmers	Lab practical
II	2	I, II III	Introduction to Object Technology - Introduction to C# Applications - Creating simple Application in Visual C#	Lecture method	C# delo for programmers	Class Test
III	2	II e IV	Lab programs - Formatting text - Console write & writeline - Adding integers.	Demonstration	Web content	Lab practical
IV	2	II e IV	Arithmetic - Decision Making : Lab programs.	Demonstration	Web content.	Lab practical
Apr I			I - CA			

Apr II	2	II & III	Equality and Relational operators - Strings & characters - Introduction	Lecture method	at do for Programming	Oral Test
III	2	II & III	Classes - Objects, Methods, Properties and Instance variables.	Demonstration	Web Content	Practic Test
IV	2	III	Declaring a class with a method and instantiating an object of a class	Demonstration	Web Content	Practic Te
May I	2	IV	Lab Programs - Declaring a method with a parameter.	Demonstration	Web Content	Prac T
II			II - CA			
III	2	IV	Lab programs	Lab Demo	Web Content	Oral
IV	2	V	Lab programs	Lab Demo	Web Content	Oral
June I	2	V	Lab programs.	Lab Demo	Web Content	Practic

WORK DONE

Academic Year : 2021 - 2022
 Class : II M.Sc Computer Science

Semester : III
 Class Code :

Date	Class	Topic Covered	Learning Resources	Teaching Methodology
18.8.21 to 21.8.21	II M.Sc.	Introduction : The structure of a compiler, Lexical Analysis	Alfred V. Aho : Compilers Design	Google meet Black Board
08.09.21 to 08.09.21	II M.Sc.	BootStrap - Syntax Analysis - Semantic Analysis - Intermediate Code	E-Resources Study Book	Google meet Black Board
08.09.21 to 08.09.21	II M.Sc.	Code Optimization - Code Generation Symbol Table, Compiler Construction Tools	E-Resources Study Book	Google meet Black Board
09.08.21 to 14.9.21	II M.Sc.	The Evolution of Programming Language, Lexical Analysis - The Role of Lexical, Recognition of Tokens	Study Book E-Resources	Black Board
9.9.21 to 9.9.21	II M.Sc.	Recognition Tokens, Finite Automata, NFA	Study material	Black Board, video
9.9.21 to 9.9.21	II M.Sc.	NFA, Conversion of an NFA to DFA	Study material E-Resources	Black Board
4.10.21 to 10.10.21	II M.Sc.	Constructions of an NFA from a Regular Expression	Study material	PPT, Black Board &
10.10.21 to 17.10.21	II M.Sc.	III Syntax Analysis : Introduction	Study material	Black Board
13.10.21 to 13.10.21	II M.Sc.	Context free Grammars, Top-Down parsing	E-Resources Study material	PPT, Black Board &
10.10.21 to 10.10.21	II M.Sc.	Top-Down parsing, Bottom-up parsing	E-Resources Study material	Black Board & video
18.11.21	II M.Sc.	LR parsing Introduction	Study material	Black Board &
18.11.21 to 18.11.21	II M.Sc.	Intermediate Code Generation: Variants of Syntax Trees	Study material	Black Board &
11.11.21 to 11.11.21	II M.Sc.	Three-Address code	Study material	Black Board
18.11.21 to 11.11.21	II M.Sc.	Types and Declaration	Study material	Black Board video
11.11.21 to 11.11.21	II M.Sc.	Translation of Expressions	Study material	Black Board

1.10.21 to 4.10.21	II M.Sc.	Code Generation: Design of a Code generator, Basic Blocks	PPT Study material	Block Board
6.10.21 to 10.10.21	II M.Sc.	Flow graphs, Optimization of Basic Blocks, peephole optimization	PPT Study material	Videos, Block Board
13.10.21 to 18.10.21	II M.Sc.	Principles of optimization, Data flow Analysis	Study material	Block Board
20.12.21 to 27.12.21	II M.Sc.	Apply their Basic knowledge of Data structure to Design Table	PPT Study material	Block Board
				33
				28
				30.
				31.
				1.9
				1.9
				6.9
				10.9
				13.9
				8-9
				14.
				15.
				11, 12
				8.10
				13.10
				25.10

WORK DONE

Academic Year : 2021-2022

Class : III B.Sc. CC

Semester : V

Class Code :

Computer Architecture

Date	Class	Topic Covered	Learning Resources	Teaching Methodology
4-8-21 8-21/6 8-21	III B.Sc. CC	Basic Computer Organization and Design Instruction code - Computer Registers Computer Instruction	Computer system organization	Google meet
8-21 8-21	III B.Sc. CC	Timing & Control - Instruction cycle - memory reference instructions Programming the Basic Computer: Intro	Study material F-Reference	Google meet
8-21 1-20-21	III B.Sc. CC	Assembly Language - The Assembler - Program Loops	Study material F-Reference	Google meet Black Board
9-21 9-21	III CC	Programming ALU operations - Subroutines - I/O programming micro Programmer Control	Study material	Google meet Black Board
9-21 9-21	III CC	Control memory - Address sequencing - micro programmed Control	Study material	Black Board
3-9-21 1-9-21	III CC	Design of Control Unit, CPU: Introduction	Study material	Google meet
4-10-21 10-21	III CC	General Register Organization, Stack organization Instruction formats	F-Reference Study material	Black Board
1,12-10-21	III CC	Addressing mode.	F-Reference	Google meet
3-10-21 3-10-21	III CC	Data Transfer & Manipulation - Program control - RISC.	Study material	Black Board
5-10-21 1-10-21	III CC	I/O Organization: peripheral Device I/O Interface - Asynchronous Data Transfer	Study material	Black Board
2-11-21	III CC	Modes of Transfer.	Study material	Black Board
11-21 1-11-21	III CC	Priority Interrupt - Direct memory Access.	Study material	Black Board
1-11-21 6-11-21	III CC	Priority Interrupt - DMA - I/O Interface.	F-Reference Study material	Black Board
2-11-21 7-11-21	III CC	General Register Organization, Revision.	Study material	Black Board
1,30-11-21	III CC	Revision.	Study material	bl -

WORK DONE

Academic Year : 2021-2022

Class : II B.Sc (CC)

Semester : III

Class Code :

SBE : Web Design

Date	Class	Topic Covered	Learning Resources	Teaching Methodology
6.8.21 to 11.8.21	II B.Sc (CC)	Introduction : HTML - Understanding HTML Tags.	Study material	Google meet
13.8.21 to 18.8.21	II CC	Creating HTML, Head, and Body section, Paragraphs, Line Breaks.	E-Resource study material	Google meet
19.8.21 to 24.8.21	II CC	Formatting Text by using Tags. Creating Headings	E-Resource Study material	Google meet
25.8.21 to 30.8.21	II CC	Applying Bold & Italic Formatting Superscript & Subscript formatting	study material	Google meet
31.8.21 to 5.9.21	II CC	List: - Bulleted & Numbered List - Definition List.	study material	Black Board
6.9.21 to 11.9.21	II CC	Background & Foreground Colors. Creating Hyperlinks & Anchors.	study material	Black Board
12.9.21 to 17.9.21	II CC	Introduction to Stylesheet - Tables.	study material	Black Board
18.9.21 to 23.9.21	II CC	XML overview : Basics of XML	study material	Google meet
24.9.21 to 29.9.21	II CC	XML Namespace - XML Tree - XML Syntax.	E-Resource Study material	Google meet
30.9.21 to 5.10.21	II CC	XML elements - DTD - XML schema	E-Resource study material	Black Board
6.10.21 to 11.10.21	II CC	Extensible style sheets - XSL Transformation.	study material	Black Board
12.10.21 to 17.10.21	II CC	Lab programs	E-Resource Study m	Practical
18.10.21 to 23.10.21	II CC	Lab programs	E-Resource Study material	Practical
24.10.21 to 29.10.21	II CC	Lab programs : ICA	E-Resource study material	Practical
30.10.21 to 5.11.21	II CC	Lab programs	E-Resource	Practical

WORK DONE

Academic Year : 2021-2022

Class : II CS

Practical : VB.Net

Semester : III

Class Code :

Date	Class	Topic Covered	Learning Resources	Teaching Methodology
6.8.21 to 8.8.21	II CS	Introduction about VB.net framework Visual studio IDE, Introduction VB.net	Study material	Google meet
8.8.21 to 8.8.21	II CS	Fundamentals - Variables - Data Types	E-Resource Study material	Google meet
10.8.21 to 31.8.21	II CS	Arrays - Control flow statements	Study material	Google meet
1.9.21 to 4.9.21	II CS	Functions and Procedures - Implementing ops. - Classes	Study material	Google meet Blackboard
6.9.21 to 10.9.21	II CS	Constructors - Inheritance - Static classes	E-Resource	Google meet Black Board
13.9.21 to 18.9.21	II CS	Interfaces - Exception Handling - Collections	Study material	Black Board
1.10.21 to 8.10.21	II CS	Arrays - ArrayList collection - Handling characters, string, Dates	Study material	Google meet
11.12.10.21	II CS	File I/O operations	Study material	Black Board
8.10.21 to 23.10.21	II CS	Overview of Windows programming - GUI Concepts, Data types - Person	E-Resource	Black Board
23.10.21 to 31.10.21	II CS	Basic Drawing : GDI Device Context	Study material	Google meet
1.12.11.21	II CS	Text o/p - Scroll Bar - Keyboard Mouse	Study material	Black Board
8.11.21 to 12.11.21	II CS	Lab Programs	E-Resource	Practical
15.11.21 to 20.11.21	II CS	Lab Programs	E-Resource	Practical
22.11.21 to 27.11.21	II CS	Lab Programs	E-Resource	Practical
29,30.11.21	II CS	Lab Programs	E-Resource	Practical

1.12.21 to 4.12.21	II CS	Lab programs	Study material	Practic	Academ Class
6.12.21 to 10.12.21	II CS	Lab programs	E-Resource Study material	Practic	Date
					23/2/22 to 26/2/22
					28/2/22 to 5/3/22
					7/3/22 to 21/3/22
					4/3/22 to 18/3/22
					21/3/22 to 26/3/22
					28/3/22 to 01/4/22
					31/3/22 to 14/4/22
					17/4/22 to 30/4/22
					1/5/22 to 14/5/22
					17/5/22 to 31/5/22

WORK DONE

Academic Year : 2021-2022
 Class : II B.Sc. Computer Science

Semester : IV
 Class Code : 0918

Date	Class	Topic Covered	Learning Resources	Teaching Methodology
23/2/22 26/2/22	II CS	Unix Introduction - Brief History - Unix Components	Unix & Shell Programming	Lecture method
28/2/22 5/3/22	"	features of Unix - Basic Commands pwd, ls, mv, cp, rm, mkdir, rmdir	Unix Programming	Lecture method
8/3/22 12/3/22	"	chmod, full & Relative Pathnames Shell Programming Languages	Unix & Shell Programming	Demonstration - How
14/3/22 18/3/22	"	Shell Variables & Arguments Command Line Arguments	Unix & Shell Programming	Demonstration -
21/3/22 26/3/22	"	Naming Conventions, Wild-card Characters, Looping & Conditional	Unix & Shell Programming	Lecture method
28/3/22 30/3/22	"	Execution, while, until case, break & continue, true & false commands	Unix & Shell Programming	Demonstration
31/3/22 8/4/22		I CA		
9/4/22 10/4/22 13/4/22	II CS	System calls, Process Management, Interprocess Communication	Operating System Concepts	Lecture method
18/4/22 23/4/22	"	multithreaded processing, Process Scheduling, Deadlock Introduction	Operating System Concepts	Lecture method
25/4/22 30/4/22	"	Deadlock Avoidance, memory management, Swapping	Operating System Concepts	PPT
2/5/22 7/5/22	"	Continuous memory allocation, Paging.	Operating System Concepts	Lecture method
9/5/22 13/5/22	"	Segmentation, Virtual memory	Operating System	Lecture method
16/5/22 21/5/22	"	Demand Paging, Page Replacement Algorithm.	Operating System	PPT
23/5/22 25/5/22	"	Thrashing. Revision.	OS Concepts.	Lecture method
26/5/22 2/6/22		II - CA		

WORK DONE

Academic Year : 2021-2022

Semester : VI, Data Mining

Class : III B.Sc. Computer Science

Class Code : 18

Date	Class	Topic Covered	Learning Resources	Teaching Methodology
23/2/22 24/2/22	III CS	Basic Data Mining Tasks - Data Mining vs KDD, Data Mining Issues.	Data Mining Study material	Lecture method
28/2/22 5/3/22	III CS	Data Mining metrics - Data Mining from a Database perspective DM Techniques.	Study material	Lecture method
1/3/22 13/3/22	"	Statistical Perspective on Data Mining - Similarity measures - NN - Genetic Algorithm	Study material	PPT
7/3/22 8/3/22	"	Clustering - Similarity measures - Distance measures - Outliers.	Web content	PPT
11/3/22 16/3/22	"	Hierarchical Algorithm - Partial Algorithm - Associative Rule - Large Item sets.	Web content	PPT
18/3/22 20/3/22	"	Parallel & Distributed Algorithm - Rule Based Algorithm - Combining Techniques.	Web content Study material	PPT
1/3/22 14/2/22		I - CA		
1/4/22 14/4/22	III CS	Clustering: Introduction - Similarity & Distance measures - Outliers - Hierarchical Algorithm.	Study material	Lecture method
27/4/22 3/4/22	"	Partial Algorithm - Association Rules - Large Itemsets.	Study material	PPT
5/4/22 20/4/22	"	Measuring the Quantitative Rules - Spatial Mining.	Study material	Lecture method
15/22 15/22	"	Introduction - Data overview - Primitives - Generalization Rules	Study material	Lecture method
15/22 31/5/22	"	Classification Algorithm - Clustering Algorithm, Web mining -	Study material	PPT
16/5/22 21/5/22	"	Introduction - Web mining context - Web structure mining - Web Usage	Study material	Lecture method
23/5/22 25/5/22	"	mining - Revision.		
26/5/22 2/6/22		II - CA		

WORK DONE

Academic Year : 2021-2022

Class : III c.s C#

Semester : VI

Class Code : 18

Date	Class	Topic Covered	Learning Resources	Teaching Methodology
23/2/22 to 6/3/22	III c.s	Introduction to C# - xml - microsoft .Net	C#2010 for programming	Lecture method.
7/2/22 to 13/2/22	"	The .Net Framework - Common Language Runtime.	Study material	Lecture method
13/2/22 to 22/3/22	"	Lab programs		Demonstration
1/3/22 to 9/3/22	"	Introduction to Object Technology C# Applications - Simple Programs	Study material	Lecture method.
11/3/22 to 26/3/22	"	Lab programs		Demonstration
"	"	Formatting Text - Console.WriteLine and Console.WriteLine.	Study material	Lecture method
8/3/22 to 30/3/22	"	Adding Integer - Arithmetic - Decision Making.	Study material	Lecture method
8/3/22 to 10/3/22	"	Lab programs.		Demonstration
I - CA				
9/4/22 to 3/4/22	"	Equality and Relational Operators - Strings & characters	Study material	Demonstration
18/4/22 to 30/4/22	"	Introduction : classes & Objects - methods, Properties.	Study material	Demonstration
25/4/22 to 30/4/22	"	Instance Variables - Lab Programs	Study material	Lecture method
9/5/22 to 13/5/22	"	Declaring classes & methods, Objects.	Study material	Demonstration
16/5/22 to 21/5/22	"	Lab program		Demonstration
25/5/22 to 25/5/22	"	Declaring a method with a parameter.	Study material	Lecture method.



Auxilium College (Autonomous)

(Accredited by NAAC with A+ Grade with a CGPA of 3.55 out of 4 in the 3rd Cycle)

Gandhi Nagar, Vellore - 632 006.

FACULTY RECORD

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Institutional Responsibility	Department Responsibility
Coordinator for College Website Staff Welfare Fund-Incharge	NIRF ERP Portal

TIME TABLE

ODD SEMESTER

Hour / Day Order	1	2	3	4
I		III B.Sc RDBMS		II M.Sc DCC
II	II M.Sc DCC		III B.Sc RDBMS	I B.Sc DLF
III	III B.Sc RDBMS		II Micro VE	II M.Sc DCC
IV	I B.Sc DLF Lab	I B.Sc DLF lab		III B.Sc RDBMS
V		III B.Sc RDBMS		II M.Sc DCC
VI	III B.Sc RDBMS lab	III B.Sc RDBMS lab	III B.Sc RDBMS lab	

EVEN SEMESTER

Hour / Day Order	1	2	3	4
I	III B.Sc • Net Programming			
II			III B.Sc. • Net Programming	
III	I B.Sc Microprocessor lab	I B.Sc Microprocessor lab	VE	
IV		II B.Sc EVS	III B.Sc • Net Programming	
V	III B.Sc • Net Programming		II B.Sc EVS	
VI	III B.Sc • Net lab	III B.Sc • Net lab	III B.Sc • Net lab.	

Academic Year : 2021-2022
 Class : III B.Sc Computer science
 Subject : Relational Database Management System
 Hours / Week : 6
 Credits : 5

Class Code : UCCSM19
 Subject Code : 90
 Total Hours : 90
 Total Marks : 100

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
August II	5	I	File system vs DBMS Database system Application, view of Data. Create table, Modify, drop table.	Black Board Google Meet Google Classroom	Database system Concepts Abraham Silberschatz Sixth Edition	Aptitude Test
III	5	I	Database languages - Data Storage Querying. Insert - Modify with update Delete records in table.	PPT - Google meet - Discussion about Data Storage	Database system Concepts Abraham Silberschatz Sixth Edition	Group discussion
IV	5	I	Data Architecture Database users And Administrators - History of Data Implementing - base system.	Google meet Google Classroom	Database system Concepts Abraham Silberschatz Sixth Edition	Assessments
September I	5	I	Relational Model & structure of Relational Databases - Structured Query languages - Relational Operation.	Illustration for Query languages	Data base system Concepts Abraham Silberschatz Sixth Edition	Questionnaires
II	5	II	Introduction to SQL - Data definition Basic & structure - Set operations Joins - view - Constraints	Google meet PPT.	Database system Concepts Abraham Silberschatz Sixth Edition	Illustrations on Black Board.
III	5	II	Aggregate Functions - Null values Nested Subqueries - Modification of Database - Datatypes - Triggers.	Video contents	Database system Concepts Abraham Silberschatz Sixth Edition	Aptitude Test

IV	5	III	Database Design - ER model - Removing Redundant Attributes - Reduction to relational schemas - ER design Issues	Black board Google classroom	Database system concepts, Abraham silberschatz 5th Edition	Apptitude Test
October I	5	III	Extended ER Features - Alternative Notations for modeling data - Functional Dependencies	Google meet PPT	Database system concepts, Abraham silberschatz 5th Edition	Group discussions
II	5	III	Features of Relational designs - Decomposition and Normalisation - Multivalued dependencies - Domainkey normal form	Google meet Sense board	Database system Concepts, Abraham silberschatz 5th Edition	Quiz using mentimeter
III	5	IV	Storage and File structure - Physical Storage Media Magnetic disks Ordered by Group by class - Aggregate Function	Google classroom PPT	Database system concepts Abraham silber Schatz, 5th Edition	Assignments
IV	5	IV	RAID tertiary storage File organisation organisation of records in Files Implementing string - Data and time Functions	Black board, google classroom	Database system Concepts, Abraham Silberschatz 5th Edition	Group discussions
November I	5	IV	Data dictionary - storage ordered Indices B+ Tree Index Files system Nested Queries & Join Operations - Staff Information	Google meet Black Board	Database system Concepts, Abraham silberschatz 5th Edition	Assignments
II	5	V	Distributed databases Homogeneous and Heterogeneous Database - storage Distributed transaction Commit protocols	Google classroom PPT	Database System Concepts Abraham silberschatz 5th Edition	Annotations through whatsapp board only
III	5	IV	Concurrency control - Complex Datatypes Structured types and Inheritance in SQL - Electricity Bill processing system.	Black Board Google meet	Database System Concepts Abraham Silberschatz 5th Edition	Assignments
IV	5	I	Object Identity and reference types	Google Classroom	Database system Concepts Abraham	Apptitude

Academic Year : 2021-2022
 Class : II M.Sc Computer Science
 Subject : Distributed and Cloud Computing
 Hours / Week : 5
 Credits : 5

Semester : II
 Class Code :
 Subject Code : PCCSM20
 Total Hours : 75
 Total Marks : 100

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
August II	5	I	Cloud Computing Fundamentals - Motivation for cloud computing - Defining Cloud computing - Principles of CC	Google Meet Google classroom	Essential of Cloud Computing K. Chandrasekaran	Aptitude test
III	5	I	Cloud characteristics - Elasticity in Cloud on demand Provisioning - Cloud Computing Architecture and Management	Black board Google Meet	Essentials of Cloud Computing K. Chandrasekaran	Assignments
IV	5	I	Cloud Architecture - cloud deployment models - Private cloud - public cloud Hybrid Cloud - NIST Application on cloud	PPT Google classroom	Essentials of cloud computing K. Chandrasekaran	Group discussions
September I	5	II	Cloud Service Models - Infrastructure as a service - Platform as a service Software as a service.	Sense Board Google classroom	Essentials of Cloud Computing K. Chandrasekaran	Annotations through white board
II	5	II	Cloud Storage - advantages of cloud storage.	Black board PPT	Essentials of cloud computing K. Chandrasekaran	Aptitude test
III	5	II	Cloud Service Providers - Google - Amazon Web services - Microsoft - Manjrasoft 83	Video contents Google Meet	Essentials of Cloud Computing K. Chandrasekaran	Quizzing Google forms.

IV	5	III	Parallel and Distributed Programming Paradigms - MapReduce - Twister and Iterative map reduce.	Google classroom	Distributed and cloud computing Parallel Processing Kai Hwang	Aptitude test
October						
I	5	III	Hadoop library from Apache - Mapping Applications - Google App Engine	PPT Google meet	Distributed and Cloud computing Parallel Processing Kai Hwang	Group discussions
II	5	III	Amazon AWS - Cloud software Environment - cloudsim.	Black board Google meet Google classroom	Distributed and cloud computing Parallel Processing Kai Hwang	Quiz using Mentimeter
III	5	IV	Clustering for Massive Parallelism - Computer clusters - MPP Architecture	Illustration for MPP Architecture	Distributed and Cloud computing Parallel Processing Kai Hwang	Assignments
IV	5	IV	Design principles of computer clusters Cluster jobs and Resource Management	PPT Video contents	Distributed and Cloud computing Parallel Processing Kai Hwang	Anotation through white board online
November						
I	5	IV	Case studies of top Supercomputer systems.	Google classroom Google meet	Distributed and Cloud computing Parallel Processing Kai Hwang	Assignment
II	5	V	Implementation levels of virtualization Virtualization structures / Tools and mechanisms	Black board Google meet PPT	Distributed and Cloud computing Parallel processing Kai Hwang	Aptitude test
III	5	V	Virtualization of CPU, memory and I/O devices - virtual clusters	Google classroom Google meet	Distributed and cloud computing Parallel processing Kai Hwang	Questionnaires
IV	5		Resource Management - virtualization	PPT Video contents	Distributed and cloud computing	Aptitude test

Academic Year : 2021-2022
 Class : I B.Sc Computer Science
 Subject : Digital Logics and Fundamentals
 Hours / Week : 3
 Credits : 2

Semester : I
 Class Code :
 Subject Code : UCCSC20
 Total Hours : 45
 Total Marks : 100

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
August II	2	I	Number System - Binary Numbers Conversion from one number system to other	Google classroom Google Meet	Digital logics and Fundamentals Morris M. Mano Fifth Edition.	Aptitude test
III	2	I	Number Base Conversion - octal and hexadecimal numbers - complements Binary Arithmetic - Binary codes	PPT Video content	Digital logics and Fundamentals Morris M. Mano	Questionnaire
IV	2	I	Binary Logics - Logic gates - Truth Table - Boolean Algebra - Basic Definition - Properties of Boolean Algebra - Duality	Google classroom Google Meet.	Digital logics and Fundamentals Morris M. Mano	Assignment
September I	3	II	Simplification of Boolean function - Map method - Two and three variable map Four variable maps	Google classroom Black board	Digital logics and Fundamentals Morris M. Mano	Quiz using Google Forms
II	3	II	Five and six variable maps - Tabulation Methods - McCluskey Tabulation method - Logics - Adders - Half Adder	Video content PPT	Digital logics and Fundamentals Morris M. Mano	Questionnaire
III	3	II	Full Adder - Subtractor - Half Subtractor Full Subtractor - Encoders - Decoders - Multiplexer - Demultiplexer.	Google classroom	Digital logics and Fundamentals Morris M. Mano.	Aptitude Test

IV	3	III	Design of circuits using Decoders Multiplexer - Demultiplexer - Sequential Logic - Introduction - Flip flops	Google meet Google Classroom	Digital Logic and Fundamentals Morris M. Mano	Annotation through whiteboard
October I	3	III	Basic Flip-flop Circuits - Closed Rs Flip flops - JK flip flops - D flip flops T flip flops	PPT Google Classroom	Digital Logic and Fundamentals Morris M. Mano	Questionnaires
II	3	III	Registers - Registers with Parallel load Shift registers - Serial transfer - Serial Addition using sequential logic	Video Content Google Classroom	Digital Logic and Fundamentals Morris M. Mano	Aptitude test
III	3	IV	Verify the truth table of logic Gates AND, OR and NOT gate. Half Adder circuit using logic gates	Illustration on Adders and Subtractors	Digital Logic and Fundamen tals, Morris Mano	Quiz using manometer
IV	3	IV	Construct the Full Adder circuit using logic gates. Half Subtractor circuit using logic gates	Google Classroom Google meet	Digital Logic and Fundamentals Morris M. Mano	Assignments
November I	3	IV	Construct the full subtractor circuit logic gates.	Google Classroom Video Contents	Digital Logic and Fundamentals Morris M. Mano	Aptitude test
II	3	V	Karnaugh map method as sum of Product (SOP) using NAND Gates.	Google Classroom Black board	Digital Logic and Fundamentals Morris M. Mano	Group discussions
III	3	V	Implement the karnaugh map method as Product of sum (POS) using NOR gates	Video contents	Digital Logic and Fundamentals Morris Mano	Questionnaires
IV	3	V	Implement the karnaugh map method	PPT Google	Digital Logic	

Academic Year : 2021-2022
 Class : III B.Sc. Computer Science
 Subject : .NET Programming
 Hours / Week : 6
 Credits : 5

Semester : VI
 Class Code :
 Subject Code : UCCSG19
 Total Hours : 75
 Total Marks : 100

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
Feb III	5	I	Introduction to ASP.NET - .NET Framework (CLR, CLI, BCL)	Blackboard LCD, PPT	Introduction to ASP.NET Dino Esposito	Annotations through blackboard
Mar I	5	I	ASP.NET Basics - ASP.NET - Page structure - Page Life cycle. Write a VB.NET Program to design a calculator	Blackboard LCD, PPT	Professional ASP.NET 1.1 Bill Evjen	Apptitude Test
Mar II	5	I	Controls - HTML & Server Controls Web server Controls.	Blackboard Google classroom	Professional ASP.NET 1.1 Bill Evjen	Assessments
Mar III	5	I	Web User Controls - validation Controls - custom Web Controls.	Blackboard PPT	Professional ASP.NET 1.1 Bill Evjen	Questionnaire
Mar IV	5	II	Form validation: Client side Validation - Server side validation.	Blackboard LCD, PPT	Professional ASP.NET 1.1 Darin Rader	Group Discussion
Apr I	5	II	Validation Controls: Required Field Comparison Range.	Blackboard LCD, PPT	Professional ASP.NET 1.1 Bill Evjen	Group Discussion

APR II	5	IV	Calendar Control - Adrotator Control Internet Explorer - ViewState Control state - Application state	Blackboard Google classroom	Professional ASP.NET 1.1 Bill Evjen	Apptitude test
APR III & IV	5	III	Architecture of ADO.NET - Create Database - ADO.NET Object Model Connection class	PPT	Professional ASP.NET 1.1 Bill Evjen	Group discussion
MAY I	5	III	Command Class - Data Adapter class Dataset class - Display data on databound controls and DataGrid	Blackboard LCD	Professional ASP.NET 1.1 Bill Evjen	Assignments
MAY II	5	IV	Database Accessing on Web Application Data Binding Concept with Web	Blackboard LCD, PPT.	Professional ASP.NET 1.1 Devlin Radde	Questionnaires
MAY III	5	IV	Creating Data Grid - Binding standing Web server Controls	Blackboard Google classroom	Complete Reference ASP.NET	Apptitude test
MAY IV	5	IV	Display data on Web form using Data Bound Controls.	Blackboard PPT	Complete Reference ASP NET Macromold	Assignments
JUNE I	5	V	Writing Datasets to XML - Reading Datasets with XML	PPT, LCD	Complete Reference ASP NET Macromold	Apptitude test
JUNE II	5	V	Web services: Remote method call using XML - SOAP - Web Services description Language	Google classroom	Professional ASP.NET 1.1 Devlin Radde	Group discussions
JUNE			Building and Consuming a Web Application	PPT	Professional ASP NET Macromold	Assignments

Academic Year : 2021-2022
 Class : III B.Sc. Computer Science
 Subject : Practical IX - .Net
 Hours / Week : 3
 Credits :

Semester : VI
 Class Code :
 Subject Code : UCCSR19
 Total Hours : 45
 Total Marks : 100

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
Feb III & Mar I	3	I	Write a VB.NET program to design calculator	PPT	Asp. Net 2.0 Black book Platinum Edition	Assessments
Mar II	3	I	Write a VB.NET program to develop a Quiz	Google classroom	Asp. Net 2.0 Black book Platinum Edition	Questionnaire
Mar III & Mar IV	3	II	Write a .Net program to generate a bill for a departmental store by applying appropriate validation techniques.	LCD	Asp. Net 2.0 Black book Platinum Edition	Group Discussion
Apr II	3	II		Google Classroom	Asp. Net 2.0 Black book Platinum Edition	Assessments
Apr III & IV	3	III	Create a shopping web application using Image Button.	PPT	Asp. Net 2.0 Black book Platinum Edition	Questionnaires
May I	3	III	Create a Employee Payroll application using Master pages.	LCD	Asp. Net 2.0 Black book Platinum Edition	Annotations through White board

May II	3	II	Create a Banking application with Menu option	video content	Asp.net 2.0 Black book Platinum Edition	Quiz using Google Forms
May III	3	III	Write a program to display data with grid	ppt	Asp.net 2.0 Black book Platinum Edition	Group Discussions
May IV	3	IV	Write a program to implement adrotator	Video content	Asp.net 2.0 Black book Platinum Edition	Assessments
Jun I	3	IV	Write a program to implement view state	LCO	Asp.net 2.0 Black book Platinum Edition	Questionaries
Jun II	3	IV	Write a program to implement - Controls validation	Google classroom	Asp.net 2.0 Black book Platinum Edition	Assignments
Jun III	3	IV	- Management Techniques Write a program to implement state	Google classroom	Asp.net 2.0 Black book Platinum Edition	Annotation through white board
Jun III	3	V	- through Asp.net Write a program to access data source	video content	Asp.net 2.0 Black book Platinum Edition	Assessments

Academic Year : 2021-2022
 Class : B.Sc. Computer science
 Subject : Microprocessor
 Hours / Week : 3
 Credits : 2

Semester : II
 Class Code :
 Subject Code : UCCSF20
 Total Hours : 25
 Total Marks : 100

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
Feb III	3	I	Introduction - Introduction to Intel - Processors	Video content	Fundamentals of Microprocessor N. Vijayadran	Aptitude test
Feb IV	3	I	Minimum Mode - Maximum Mode	Google Classroom	Fundamentals of Microprocessor or v. vijayadran	Group Discussions
Mar I & Mar II	3	I	Pin functions of 8086 - 8086 Architecture	PPT	Fundamentals of Microprocessor v. vijayadran	Assessments
Mar III & Mar IV	3	II	Machine Language and Assembly Language	video content	Fundamentals of Microprocessor v. vijayadran	Questionnaire
Apr I	3	II	Programmer's model of 8086	Google Classroom	Fundamentals of Microprocessor v. vijayadran	Assignments
Apr II	3	II	8086 Addressing modes	LCO	Fundamentals of Microprocessor v. vijayadran.	Annotation through white board

APR IV	3	II	Data transfer Instructions	Google classroom	Fundamentals of Microprocessor V. V. Vijayandran	Assessments
May I S. II	3	III	Compare Instructions	video content	Fundamentals of Microprocessor V. V. Vijayandran	Group Discussion
May III	3	III	Jump Instructions - Loop instructions	Google classroom PPT	Fundamentals of Microprocessor V. V. Vijayandran	Quiz using Google forms
May IV	3	III	String Instructions	Black board LCB	Fundamentals of Microprocessor V. V. Vijayandran	Assignments
June I	4	IV	Data Manipulation using 8 bit	Google classroom	Fundamentals of Microprocessor V. V. Vijayandran	Questionnaire
June II	4	IV	Data Manipulation using 16 bit	Video content	Fundamentals of Microprocessor V. V. Vijayandran	Group Discussion
June III	4	IV	Largest Number in an array	Blackboard PPT	Fundamentals of Microprocessor V. V. Vijayandran	Assignments
June III	5	V	Ascending order	Google classroom PPT	Fundamentals of Microprocessor V. V. Vijayandran	Attitude test
June III	5	V	Block Move		Fundamentals of Microprocessor	Group

Academic Year :
 Class :
 Subject :
 Hours / Week :

Semester :
 Class Code :
 Subject Code :
 Total Hours :
 Total Marks :

Learning :
 Methods of



Auxilium College (Autonomous)

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② Member of Career Guidance and Placement cell	② Project co-ordinator for Innovation of Department

LESSON PLAN

Academic Year : 2021-2022
Class : I B.SC COMPUTER SCIENCE
Subject : PROGRAMMING IN C
Hours / Week : 4
Credits : 3

Semester : I
Class Code :
Subject Code : UCCSA20
Total Hours :
Total Marks :

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
AUG, <u>IV</u>	5	I	Algorithm and Flowchart, Basic Techniques: Sum of Two Given Numbers.	Google meet, PPT	'Programming in C', Balagurusamy	Assignments, Test
SEP, I	5	I	Swapping Two numbers - Simple Interest calculation & Overview of C	Google meet, Discussion, PPT	ebook, Programming in C, Balagurusamy	Group, discussion
II	5	I	Constants and Variables and Data Types.	Google meet, PPT	ebook, Programming in C, Balagurusamy	Concepts Test
<u>III</u>	5	II	Operators, Sample program using operators & Expressions.	Google meet, PPT	e-resources w3 schools	Assessing group work
<u>IV</u>	5	II	Managing input and Output Operations And Decision Making and Branching	Black Board, Google classroom	e-resources geeks for geeks	Quiz
OCT, I	5	II	Decision Making and Looping.	Black Board, video lessons	Programming in C, Balagurusamy	Discussion, Test

II	5	III	Arrays - One dimensional array - Predefined Streams. Introduction - Reading and Writing String.	Black board, PPT	'Programming in C', Balagurusamy	Assignment Test
III	5	III	Arithmetic Operation on Characters. Putting String Together - Comparison of Two Strings - String Handling.	Black board, PPT	'Programming in C', Balagurusamy	Group discussion
IV	5	III	Functions and other Features of Strings	Black board, google classroom	e book Programming in C	Concepts Test
V	5	IV	User Defined Functions: Introduction, Defining and Accessing Functions	Black board PPT	e-resources geeks for geeks	Group discussion
VI, I	5	IV	Function Prototypes and Categories of function.	Google class room, PPT	e-book Programming in C	Quiz
II	5	IV	Passing Arguments, Nesting of Functions	Black Board, Google meet	e-resources W3schools	Test
II	5	V	Recursion and Passing Array to functions.	Black Board, PPT	'Programming in C' Balagurusamy	Assignment, Test
V	5	V	Passing Strings to functions, Scope-visibility and lifetime of Variables.	Video lessons, discussions	e-book	Class Test
IV	5	V	Visibility and Lifetime of Variables, Structures and	Black board PPT	'Programming in C'	Quiz

LESSON PLAN

Academic Year : 2021-2022
 Class : II B.Sc Computer Science
 Subject : Java Programming
 Hours / Week : 4
 Credits : 1

Semester : III
 Class Code :
 Subject Code : VCCSG120
 Total Hours :
 Total Marks :

LESSON PLAN

Academic Year : 2021-2022
Class : II B-sc computer Science
Subject : Java Programming
Hours / Week : 4
Credits : 3

Semester : III
Class Code :
Subject Code : VCCSG120
Total Hours :
Total Marks :

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
Aug, II	5	I	Introduction to Java, Features of Java	Google meet, google classroom	free book, Slideshare, e-book	Assignment, Test
III	5	I	Lexical issues, Data types	Black board, google meet	w3school, Slideshare	Group discussion
IV	5	I	Operators and control statements	PPT, google meet	w3school, Slideshare	Concept Test
Sep, I	5	II	Arrays - Strings, classes and objects	PPT, Black board	w3school, Slideshare	Assessing group work
II	5	II	Overloading method, Inner class	PPT, Black board	w3school, Slideshare	Quiz
III	5	II	Inheritance, Overriding method.	PPT, Black board	w3school, slideshare	Discussion Test

IV	5	III	Input/Output: Exploring Java I/O classes and interfaces and files	Annotations through white board	w3school, Slideshare	Assignment Test
Oct, I	5	III	The stream classes, Packages-access Protection	PPT, Black board	w3school, Slideshare	Group Discussion
II	5	III	Imparting packages and interfaces.	PPT, Black board	Slideshare, w3school	Concepts Test
III	5	IV	Exception Handling, try, catch, Throw and Throws	video lessons	w3school, Slideshare	Group discussion
IV	5	IV	Finally and Thread	Black board, PPT	Slideshare, w3school	Quiz
V	5	IV	Multi threading creating a thread.	Black board, PPT	w3school Slideshare	Test
Nov, I	5	V	The Java Applet and interface getDocumentBase () and getCodeBase ()	Black board, PPT	Tutorial point, Slideshare	Assignment
II	5	V	Event Handling	Black board, PPT	Tutorial Point, Slideshare	Class Test
III	5	V	Working with windows using AWT classes.	Black board, PPT	w3school, Tutorial Point	Quiz

LESSON PLAN

Academic Year :
 Class :
 Subject :
 Hours / Week :
 Credits :

Practical-V- Programming in Java

Semester :
 Class Code :
 Subject Code :
 Total Hours :
 Total Marks :

UCCSH20

LESSON PLAN

Academic Year :

Class :

Subject :

Hours / Week :

Credits :

Practical-V- Programming in Java

Semester :

Class Code :

Subject Code :

Total Hours :

Total Marks :

UCCSH20

Proposed Week	No. of Hrs	Unit Practical Prog	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
Aug, II	2	1.	Implementing string manipulation using character array.	Practical lab, Projector	Java Tutorial Point	Practical Test
III	2	1(a)	Different types of string functions.	computer, Projector	Java Tutorial Point	Test
IV	2	2.	Implementing input and output stream.	computer, Projector	Java Tutorial Point	Assignment
Sep, I	2	2(a)	Calculate area of a circle.	computer, Projector	Java Tutorial Point	Test, Assignment
II	2	3.	Implementing Packages and interface	Computer Projector	Java Tutorial Point	Test
III	2	4.	Implementing Exception handling.	Computer, Projector	Java Tutorial Point	Assignment

IV	2	4(a)	To find divide by zero error	computer, Projector	Java Tutorial Point	Practical test
Oct, I	2	4(b)	To find array Index out of bound error.	computer, Projector	Java Tutorial Point	Practical test
II	2	5.	Implementing Real time application.	computer, Projector	Java Tutorial Point	Test
III	2	6.	Implement Applet using Graphics class.	computer, Projector	Java Tutorial Point	Assignment
IV	2	7.	Implement AWT controls.	computer, Projector	Java Tutorial Point.	Assignment
V	2	"	Implement AWT controls.	computer, Projector	Java Tutorial Point	Assignment, Test
Nov, I	2	8.	Implementing colors and fonts.	computer, Projector	Java Tutorial Point	Practical test
II	2	9.	To create any applications using Applet and AWT controls.	computer, Projector	Java Tutorial Point	Practical Test
III	2	9(a)	Applet and AWT controls.	computer	Java Tutorial Point	Test.

LESSON PLAN

Academic Year :
 Class :
 Subject : Practical I : C
 Hours / Week : 2
 Credits : 2

Semester :
 Class Code :
 Subject Code : UCCSB20
 Total Hours :
 Total Marks :

Proposed Week	No. of Hrs	Units	Topics to be	Teaching	Learning	Methods of
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LESSON PLAN

Academic Year :
Class :
Subject : Practical I: c
Hours / Week : 2
Credits : 2

Semester :
Class Code :
Subject Code : UCCSB20
Total Hours :
Total Marks :

Proposed Week	No. of Hrs	Unit Practical program	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
Sep, I	2	1(a)	Input and output operations	computer, projector	Tutorials point e-resource	Assignment
II	2	1(b)	Basic key in operations.	computer, projector	Tutorials point e-resource	Assignment Test
III	2	2(a)	Decision Making Statements	computer, projector	Tutorials point e-resource	Practical test
IV	2	2(b)	Decision Making Statements	computer, projector	Tutorials point e-resource	Practical Test
Oct, I	2	3(a)	Arrays and looping statements	computer, projector	Tutorials point e-resource	Practical Test
II	2	3(b)	Arrays and looping statements	computer, projector	Tutorials point e-resource	Assignment

LESSON PLAN

Academic Year : 2021-2022
 Class : III B.Sc COMPUTER SCIENCE
 Subject : Software Engineering
 Hours / Week : 5
 Credits : 5

Semester : V
 Class Code :
 Subject Code : UECSK20
 Total Hours : 75
 Total Marks :

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
Aug, II	5	I	Introduction - Computer Based System Engineering - Emergent System Properties.	Google meet, PPT	e-book, Ian Sommerville, "Software Engineering"	Assignment Test
III	5	I	System and their Environment- System Modeling, System Modeling and Procurement	Google meet, Discussion, PPT	e-book, Ian Sommerville, "Software Engineering"	Group discussion
IV	5	I	Software process Models, Software Validation, Software evolution - Automated Process Support	Google meet, PPT	ebook, Ian Sommerville, "Software Engineering"	Concepts Test
Sep, I	5	II	Project Management, Management activities, Project Planning, Project Scheduling	Google meet, PPT	Ian Sommerville, "Software Engineering"	Assessing group work
II	5	II	Risk management, Software requirement, functional and non-functional requirements	Black Board, Google class room	Ian Sommerville, "Software Engineering"	Quiz
III	5	II	User Requirements - System Requirements Software Requirements Documents.	Black Board, Video lessons	Ian Sommerville, "Software Engineering"	Discussion Test

IV	5	III	Requirement Engineering Process, Feasibility Study, Requirement Elicitation and Analysis	Black board PPT	Ian Sommerville "Software Engineering"	Assignment test
Oct, I	5	III	Requirement Validation - Requirements Management System Model	Black board PPT	Ian Sommerville "Software Engineering"	Group discussion
II	5	III	Context Model, Behavioural Models, Data Models - Object Model	Black board google class room	Ian Sommerville "Software Engineering"	Concept Test
III	5	IV	Architectural Design - Architectural Design Decisions, System organization - Modular Styles	Black board PPT	Ian Sommerville "Software Engineering"	Group Discussion
IV	5	IV	Control styles, User interface design, Design Issues	Google class room, PPT	Ian Sommerville "Software Engineering"	Quiz
V	5	IV	User Interface Design Process. user Analysis, User Interface Prototyping.	Black board Google meet	Ian Sommerville "Software Engineering"	Test
v, I	5	V	Software Testing, Component Testing Test Case Design, Test Automation	Black board PPT	Ian Sommerville "Software Engineering"	Quiz Assignment
II	5	V	Software Cost Estimation, Productivity, Estimation Techniques	Video lessons discussions	Ian Sommerville "Software Engineering"	Assignment
III	5	V	Algorithmic Cost Modelling	Black board PPT	"Ian Sommerville "Software Engineering"	Test

LESSON PLAN

Academic Year : 2021-2022
 Class : I B.Sc CS
 Subject : Data Structures with C++
 Hours / Week : 4
 Credits : 4

Semester : II
 Class Code :
 Subject Code : UCCSD20
 Total Hours : 60
 Total Marks :

Proposed	No. of	Topics to be	Teaching	Learning	Methods
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APR II	4	III	Virtual functions and Polymorphism Painter to Objects - this Painter	Black board, PPT	Object Oriented Programming	Assignment, Test
III	4	III	Painter to Derived classes - Pure virtual functions, Mapping console I/O, file stream,	Black board, PPT	Balagurusamy "Object Oriented Programming"	Group discussion
IV	4	IV	command line arguments, Exception handling, Data Structure linear array, linear search	Black board, PPT	Balagurusamy "Object Oriented Programming"	Test
MAY I	4	IV	Binary search, Traversing a linked list, Doubly linked list, stacks, Queues, Trees.	Black board, PPT	Data Structures Schaum's Outline Series	Group discussion
II	4		II - CA	-	-	Quiz
III	4	V	Graphs, Marshall Algorithm, shortest paths, Heap Sort.	Black board, PPT	Data Structures Schaum's outline Series	Test
IV	4	V	Traversing on Graphs, Breadth shortest path, Hashing	Black board, PPT	Data Structures Schaum's outline Series	Assignment test
NE I	4	V	Hash function - Collision Resolution Open Addressing linear Probing	Black board, PPT	Data Structure Schaum's outline Series	Class test
II	4		Revision	Black board	Data Structure Schaum's outline Series	Test

LESSON PLAN

Academic Year : 2021 - 2022
 Class : II B.Sc CS
 Subject : Practical - Python Programming
 Hours / Week : 3
 Credits : 2

Semester : IV
 Class Code : UGCSD420
 Subject Code : UCCSL20
 Total Hours :
 Total Marks :

Proposed	No. of	Unit	Topics to be	Teaching	Learning	Methods of
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LESSON PLAN

Academic Year : 2021 - 2022
Class : II B.Sc CS
Subject : Practical - Python Programming
Hours / Week : 3
Credits : 2

Semester : IV
Class Code : UGCS D420
Subject Code : UCCSL 20
Total Hours :
Total Marks :

Proposed Week	No. of Hrs	Unit	Topics to be Covered	Teaching Methodology	Learning Resources	Methods of Evaluation
Feb IV	3	I	Introduction, Numbers and Expressions, Statements, Functions Modules, List and Tuples.	Black board, PPT	Ljubomir Perkauc "Introduction to computing using Python"	Assignment
Mar I	3	II	Working with Strings, Single Quoted Strings and Escaping Quotes.	Black board, PPT	Python the complete reference	Group discussion
II	3	I	Concatenating Strings, String Representations, Input vs Raw-Input - Long Strings Raw Strings	Black board PPT	Python the complete reference	Test
III	3	III	Files and Staff Opening Files modes - Buffering Basic File methods, Reading and Writing	Computer, Projector	Packtub e-resource	Quiz
IV	3	III	Closing Files, Using the Basic File Methods, Iteration over file contents	Computer Projector	Packtub e-resource	Test
APR I	3		I - CA	-	-	-

APR			Dictionary, using Dictionary The dict function, string formatting with dictionaries	Black board, PPT	Python the complete reference	Assignment
II	3	II				
III	3	II	Loops: while loops, utilities, Breaking out of loops	Black board, PPT	Python the complete reference	Small Projects
IV	3	IV	Else clauses on loops Abstraction Abstraction, object classes, Exceptions	Black board PPT	Python the complete reference	Small Projects
MAY			write a program to implement date and time, using dictionary	Computer, Projector	Tutorials Paint	Assignment
I	3	IV				
II	3		II - CA			
III	3	V	Write a program to iterate over dictionary, split and join, lists	Computer Projector	Tutorials Paint	Assignment, Test
IV	3	V	To find unique list, read first n lines, class variables and instance	Computer Projector	Tutorials Paint	Test
JUNE			Write a GUI for an Expression calculator implement figures using turtle	computer Projector	Tutorials Paint	Practical test
I	3	V				
II	3	-	Revision			

LESSON PLAN

Academic Year :
Class :
Subject :
Hours / Week :
Credits :

Semester :
Class Code :
Subject Code :
Total Hours :
Total Marks :

Proposed	No. of	Unit	Topics to be	Teaching Methodology	Learning Resources	Methods of Evaluation
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WORK DONE

Academic Year : 2021-2022

Semester : I

Class : I B.Sc Computer Science Class Code :

Date	Class	Topic Covered	Learning Resources	Teaching Methodology
23/8/21 to 27/8/21	I CS	Algorithm and Flowchart, Basic Techniques: Sum of two given numbers	e-book Programming in C	Google meet PPT
31/8/21 to 4/9/21	"	Swapping two numbers - Simple Interest	e-book programming in C	google meet Discussion
6/9/21 to 9/9/21	I CS	Calculation and overview of C, Constants and variables	e-book PPT	google meet PPT
13/9/21 to 18/9/21	I CS	Data types, Operators, Sample program using operators	Text book PPT	google meet
20/9/21 to 21/9/21	I CS	Sample program using expressions, Managing Input	Text book PPT	Black board
23/9/21 to 29/9/21	I CS	Operations and decision making and Branching	Text book PPT	Smart board
30/9/21 to 1/10/21	I CS	Decision Making and Looping.	Text book PPT	Black board Projector
4/10/21 to 8/10/21	I CS	Arrays - one dimensional, Predefined Streams	e-resources text book PPT	Black board
11/10/21 to 13/10/21, 16/10	I CS	Reading and Writing String Arithmetic operation	e-resources Text book PPT	Black board Projector
20/10/21 to 23/10/21	I CS	String Comparison of two Strings - String Handling	Text Book PPT	Black board
25/10/21 to 30/10/21	I CS	Functions and other features of strings	Text Book PPT	Smart board
1/11/21 to 3/11/21	I CS	user defined functions Introduction Defining functions	Text Book PPT	Smart board
8/11/21 to 13/11/21	I CS	Function Prototypes and Categories of function.	Text Book PPT	Black board
15/11/21 to 20/11/21	I CS	Passing Arguments	Text Book PPT	Black board
23/11/21 to 26/11/21	I CS	Nesting of functions	Video classes PPT	Smart board

WORK DONE

Academic Year : 2021-2022

Semester : III

Class : II B.Sc Computer Science

Class Code :

Date	Class	Topic Covered	Learning Resources	Teaching Methodology
09/8/21 to 13/8/21	II CS	Introduction to Java,	free book, slideshow e-book	google meet google classroom
16/8/21 to 20/8/21	II CS	Features of Java	w3school, slideshow	google meet
23/08/21 to 27/8/21	II CS	Lexical issues, Data types	w3school slideshow	PPT google meet
31/08/21 to 4/09/21	II CS	Operators and Control Statements	e-book PPT	PPT Black board
6/09/21 to 9/09/21	II CS	Arrays and Strings	e-book PPT	PPT Black board
13/09/21 to 18/09/21	II CS	Classes and Objects	Textbook PPT	PPT Black board
23/9/21 to 29/9/21	II CS	Overloading method	Textbook PPT	PPT Black board
30/9/21 to 1/10/21	II CS	Inner Classes, Inheritance	Textbook PPT	PPT Black board
4/10/21 to 13,16/10/21	II CS	Overriding method. Input/output classes	Textbook PPT	PPT Black board
20/10/21 to 23/10/21	II CS	Interfaces and files	Textbook	Smart Board
25/10/21 to 30/10/21	II CS	The Stream classes, Packages access Protection	Textbook PPT	Smart Board
1/11/21 to 3/11/21	II CS	Importing Packages and Interfaces	Textbook PPT	Black board PPT
8/11/21 to 13/11/21	II CS	Exception Handling, Try, Catch.	Textbook PPT	Black board PPT
15/11/21 to 20/11/21	II CS	Throw and Throws. Finally and Thread.	Textbook PPT	Black board PPT
23/11/21 to 26/11/21	II CS	Multi threading, creating a thread	Textbook PPT	Black board PPT

WORK DONE

Academic Year : 2021-2022

Semester : V

Class : III B.Sc Computer Science Class Code :

Date	Class	Topic Covered	Learning Resources	Teaching Methodology
09/08/21 to 13/08/21	III CS	Introduction - Computer Based System engineering	e-book Ken-Sommer ville "SE"	Google meet PPT
16/08/21 to 20/08/21	III CS	Emergent System properties, System and their environment	e-book "Software engineering"	Google meet PPT
23/08/21 to 27/08/21	III CS	System modeling, Software process model	e-book "Software engineering"	Discussion PPT
31/08/21 to 4/09/21	III CS	Software Validation, software evolution	Text book	Google meet PPT
6/09/21 to 9/09/21	III CS	Automated Process Support, Project Management	Text book	Black board Google Classroom
13/09/21 to 18/09/21	III CS	Management activities, Project Planning & Scheduling	Text book	Black board
23/09/21 to 29/09/21	III CS	Risk management, Software requirement, function req.	Video classes	Video lessons
30/09/21 to 01/10/21	III CS	Non-functional requirements user requirements and System req.	Text book	Video lessons
4/10/21 to 13,16/10/21	III CS	SRD, Requirement engineering Process, Feasibility Study	Text book	Black board PPT
20/10/21 to 23/10/21	III CS	Requirement elicitation and Analysis, Req. Management	Text book	Black board PPT
25/10/21 to 30/10/21	III CS	Content Model, Behavioural models, Data model - object model	Text book	Black board PPT
1/11/21 to 3/11/21	III CS	Architectural Design, decision System organisation, Modular Systems	Text book	Black board PPT
8/11/21 to 13/11/21	III CS	Control styles, User interface design, Design issues	Text book	Black board PPT
15/11/21 to 20/11/21	III CS	User interface design Process, Use Analysis	Text book	Black board PPT
23/11/21 to 26/11/21	III CS	User Interface Prototyping	Text book	Black board PPT

WORK DONE

Academic Year : 2021-2022

Semester : II

Class : I B.Sc Computer Science

Class Code :

Date	Class	Topic Covered	Learning Resources	Teaching Methodology
23/2/22 to 26/2/22	I CS	Principal of OOP - Basic concepts, Benefits	Balagurusamy e-book	Black board google class room
28/2/22 to 5/3/22	I CS	Application of OOP, C++ Tokens, Keywords, Identifiers	e-book	Black board, Projector
8/3/22 to 12/3/22	I CS	Operator, Expressions and Control Structures	Text book PPT	Black board, Projector
21/3/22 to 26/3/22	I CS	function Prototyping values returned by function	Text book PPT	Black board Projector
21/3/22 to 24/3/22	I CS	Inline functions, function over loading, classes	Text book PPT	Projector
28/3/22 to 28/3/22	I CS	Objects, constructors and destructors	Text book PPT	Projector
28/3/22 to 30/3/22	I CS	Operator overloading, Inheritance	Text book PPT	Smart Board
30/3/22 to 06/4/22	I CS	Virtual Base Classes, Abstract Classes, Constructors	Text book PPT	Smart Board
9/4/22 to 13/4/22	I CS	Inheritance, Virtual functions and Polymorphism	Text book PPT	Black Board
18/4/22 to 23/4/22	I CS	Pointers to Objects, This pointer	Text book PPT	Black Board
25/4/22 to 30/04/22	I CS	Pointer to derived classes, Pure Virtual functions	Text book PPT	Smart board
9/5/22 to 13/5/22	I CS	Mapping console I/O File stream	Text book PPT	Smart board
16/5/22 to 21/5/22	I CS	Command line arguments, Exception handling	Text book PPT	Black Board
18/5/22 to 21/5/22	I CS	Data Structure linear array, linear search	Text book PPT	Projector
23/5/22 to 25/5/22	I CS	Binary search, Traversing a linked list	Text book PPT	Projector

