Teaching Plan
Academic Year 2015-2016

CLASS **: BCS** **SEMESTER:** V

SUBJECT **: CG-II** **PAPER NO:** CS315BT

PERIODS/WEEK **: TH___ PRACTICAL**:____ **TEST** (DATE):_____

WEEKS (TOTAL) **: 15** **TUTORIAL** (DATE): _____

WEEK	TOPIC TO BE COVERED
1	3-D Transformation, Scaling, Shearing
2	Rotation, Reflection, Translation
3	Multiple Transformation
4	Projection, Perspective Projection, Parallel Projection
5	Types of Parallel & Perspective Projection, Vanishing & Trace points
6	Curve, Representation of Parametric & Non-Parametric Curves
7	Parametric Representation of Circle
8	Parametric Representation of Ellipse
9	Bezier curves
10	Character Generation: Introduction, Types of Character Generation: Stroke Method, Starbust Method, Bitmap Method
11	Color Primary Systems, Color Matching Experiments
12	Color models: RGB, CMY and HSV.
13	REVISION
14	REVISION
15	TEST

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Teaching Plan
Academic Year 2015-2016

Class: BCS III yr **Semester** V

Subject: DCN-II **Paper No:** CS314BT

Periods per week: Th3 Practical: **Test** (Date):

Weeks (Total): 15 **Tutorial** (Date):

Week	Topic to be Covered
1	Data Link layer design issues
	Services provided by data link layer
	Framing -types
2	Error control methods Parity bit, LRC
	Concept of polynomial- Computation
	CRC- Cyclic redundancy check
3	Concept of Hamming code
	Protocols- Simplex, stop and wait algorithms
	Stop and wait ARQ algorithm
4	Sliding window protocols Go Back n , selective repeat
	Protocol specification and verification
	Internetworking Test I Assignment I
5	Network layer design issues services
	Routing concept goals, classification
	Routing algorithms Dijstra
6	Floyd warshall algorithm
	Bellmon ford algorithm

	Congestion control policies-virtual circuit
7	Congestion control in datagram circuit, jitter control
	Congestion control algorithms, leaky bucket
	Token bucket algorithms
8	Transport layer design issues –services
	Transport services primitives, connection management
9	Session layer design issues
	Remote procedure call
	RPC issues
10	Presentation layer design issues
	Cryptography-encryption decryption
	Data compression techniques lossyless, lossy
11	Need of ASN.1, concept, explaination.
	Application layer design issues FTP,
	Virtual terminal
12	Electronic mail concept
	User agent services
	Test II, Assignment II
13	
14	
15	

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Teaching Plan
Academic Year 2015-2016

Class : BCS **Semester: V**

Subject : Data Warehousing &Data mining **Paper No:**

Periods per week : Th__3_ Practical:- 4 **Test (Date):_____**

Weeks (Total) : 15 **Tutorials (Date)**:_____

Week	Topic to be Covered
1	Introduction of data mining as a subject, Uses of data mining,
	Applications areas of data mining.
	Applications areas of data mining.
2	What is data mining, definitions by different authors,
	Difference between data mining and DBMS,
	Various issues and challenges in data mining.
3	Application areas of data mining and case studies of data mining
	Applications areas and their case studies.
	Techniques of data mining.
4	Techniques of data mining.
	Introduction of data ware housing ,
	What is data ware housing? Difference between data mining and
5	Data ware Housing.
	Data ware housing architecture.
	Ware house server.
6	Ware house schema,
	Multidimensional data model,
	OLAP operations.
7	OLAP operations.
	OLAP engine

	Backend process.
	Data ware house Usage
8	(test)
	Web mining introduction, applications.
	Web mining, applications
9	web content mining
	Web structure mining
	Page rank.
10	Social networks
11	Transverse and intrinsic links
12	Reference nodes
	Index nodes
13	Web usage mining
14	Revision
15	Revision (test, tutorial)

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Teaching Plan
Academic Year 2015-16

Class **: B.C.S** **Semester:** V Sem
Subject **: E-com** **Paper No:** CS318T
Periods per week **: Th_03 Practical**:___ **Test** (Date):_____
Weeks (Total) **: 15** **Tutorial** (Date):_____

Week	Topic to be Covered
1	Introduction of E-Commerce.
	Types of E-Commerce.
	Uses of E-commerce in IT and business.
2	Concepts Electronic Communication.
	Personal computers, types of computers.
	Networking.
3	Network topology.
	E-mail, types of protocols.
	Introduction of Internet.
4	Internet and Intranet.
	Introduction of EDI.
	EDI to E-commerce.
5	EDI, UN/EDIFACT.
	Concerns for E-commerce Growth.
	Internet bandwidth.
6	Technical issue & security issue.
	India e-commerce readiness.
	Legal issue.
7	Security Technologies.
	Cryptography techniques.
	Public Key Algorithms.
8	Private Key Algorithms.
	Hashing techniques, Certification.
	Key Distribution ,Cryptographic technique
9	Applications of E-commerce.
	Encryption technique.
	Digital Signature.
10	Protocols for Transactions.
	Protocols for Transactions
	SSL-Secure Socket Layer
11	SET-Secure Electronic Transaction
	Credit Card Business
	Electronic Commerce providers.
12	CyberCash, Digi cash, VeriSign
13	Software Package: PGP e-mail encryption software
14	Revision
15	TUTORIAL & Test

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Teaching Plan
Academic Year 2014-2015

Class : BCS **Semester: V**

Subject : GUI Programming **Paper No: CS304ET**

Periods per week : Th. 3 **Test (Date): 20-09-2014**

Weeks (Total) : 15 **Tutorial (Date): 27-09-2014**

Week	Topic to be Covered
1	Introduction to .NET and .NET Framework, Difference between CUI & GUI, Event Driven Programming, the VB IDE
2	Operators, Conditional statements
3	Looping statements
4	Sub Procedure, functions and exception handling
5	Implementation of the above concepts in Programs
6	Implementation of the above concepts in Programs
7	Windows Forms : General Properties, Events handling events like mouse, keyboard
8	Types of forms MDI, adding removing controls at run time. Controls : The control class, Text Box, Rich Text Box
9	Label, Buttons, Checkbox, Radio Button, Panels, Group Boxes, List Box,Combo Box
10	Picture Box, Scroll Bars, Splitters, Track Bars, Pickers, Timer.
11	Implementation of the above concepts in Programs
12	Implementation of the above concepts in Programs & Class Test
13	Object-Oriented Programming : Class and Object, Class Vs. Object Members, Creating Classes, Objects

14	Structures, Modules, Constructors, Data Members, Methods, Properties,Event
15	Revision

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Teaching Plan
Academic Year 2013-2014

Class : BCS **Semester: V**

Subject : VB. Net Architecture and Programming **Paper No: CS304FT**

Periods per week : Th. 3 **Test (Date): 27-02-2014**

Weeks (Total) : 15 **Tutorial (Date): 28-02-2014**

Week	Topic to be Covered
1	**Application Architecture for .NET:** Distributed Application Designing
2	**Designing the Components of an Application or Service:** General Designing Recommendation for Application and Services
3	**ADO.NET:** Overview of ADO.NET Object, Architecture of ADO.NET

4	Structure of DataSet, Creating DataSet, Data Binding, DataAdapter Objects
5	Implementation of the above concepts in Programs
6	Implementation of the above concepts in Programs
7	Command Objects DataReader Objects
8	Implementation of the above concepts in Programs
9	Binding Data to Various Controls, Simple Data Binding and Complex Data Binding
10	Implementation of the above concepts in Programs & Test
11	**Graphics:** Using Graphics Class, Using Pen Class, Using Brush Class.
12	Implementation of the above concepts in Programs
13	**File Handling:** Using FileStream Class, FileMode enumeration, FileAccess Enumeration, FileShare Enumeration, StreamWriter Class, StreamReader Class, BinaryWriter Class, BinaryReader Class, File and Directory Class.
14	Implementation of the above concepts in Programs
15	Revision

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Teaching Plan
Academic Year 2015-2016

Class : **BCS** **Semester:** V

Subject : **Software engineering-II** **Paper No:**

Periods per week : **Th 3 Practical**:____ **Test** (Date):

Weeks (Total) : **15** **Tutorial** (Date):

Week	Topic to be Covered
1	UNITI:- Introduction to syllabus.
	Coding
	Top down
2	Bottom up
	Structured Programming.
3	Information Hiding, Programming style
4	Internal Documentation, Verification, Metrics.
5	Monitoring and control
	UNIT II:- Testing
6	Levels of Testing [Unit testing, Integrating testing]
7	First Class Test and Tutorial
	Functional Testing
8	Structural Testing
	Test Plan
9	Test Cases specifications, Reliability, assessment.
10	UNIT III:- s/w project management
11	Cost Estimation
	Project scheduling
12	S/w configuration management
13	Quality Assurance
	Project monitoring
14	Risk management
15	Revision, Test and Tutorial

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