

DON BOSCO ARTS & SCIENCE COLLEGE
(Affiliated to Kannur University)
ANGADIKADAVU, IRITTY, KANNUR



COURSE PLAN

BCA

SEMESTER - 5

ACADEMIC YEAR 2015 - 16

SL No.	Name of Subjects	Name of the Teacher	Duty Hours per week	
V Sem BCA (2013 - 16)				
1.	5 B 13 BCA - Software Engineering	Nimisha V O	4	
2.	5 B 14 BCA - Data Communication & Computer Network	Soniya Jose	4	
3.	5 B 15 BCA - Web Technology	Vineetha Mathew	4	
4.	5 B 16 BCA - Visual Programming	Mullu Joy	4	
5.	5 B 17 BCA - Lab V (Web Technology)	Vineetha Mathew	3	
6.	5 B 18 BCA - Lab VI (Visual Programming)	Mullu Joy	4	
7.	5 D 07 BCA – Web Technology	Sindhu P.M	2	

TIME TABLE

Day	9.50am– 10.45am	10.45am– 11.40am	11.55am– 12.50am	1.40am– 2.35am	2.35am – 3.30am
1	5 B 13 BCA - Software Engineering	5 B 14 BCA - Data Communicatio n & Computer Network	5 B 15 BCA - Web Technology	5 B 13 BCA - Software Engineering	5 B 16 BCA - Visual Programming
2	5 B 16 BCA - Visual Programming	5 B 14 BCA - Data Communicatio n & Computer Network	5 B 18 BCA - Lab VI (Visual Programming)	5 B 17 BCA - Lab V (Web Technology)	5 B 13 BCA - Software Engineering
3	5 B 16 BCA - Visual Programming	5 B 17 BCA - Lab V (Web Technology)	5 B 18 BCA - Lab VI (Visual Programming)	5 B 15 BCA - Web Technology	5 B 14 BCA - Data Communicati on & Computer Network
4	5 B 15 BCA - Web Technology	5 B 13 BCA - Software Engineering	5 D 07 BCA – Web Technology	5 B 18 BCA - Lab VI (Visual Programming)	5 B 17 BCA - Lab V (Web Technology)
5	5 B 15 BCA - Web Technology	5 B 18 BCA - Lab VI (Visual Programming)	5 D 07 BCA – Web Technology	5 B 14 BCA - Data Communicati on & Computer Network	5 B 16 BCA - Visual Programming

5B13 BCA SOFTWARE ENGINEERING

Contact hours per week : 4 Theory

Credit : 3

Aim:

To introduce basics of methodology of Computer Science.

Objectives:

1. Understand the basic processes in software Development life cycle.
2. Familiarize with different models and their significance.
3. Approach software development in a systematic way.
4. To familiarize students with requirement engineering and classical software design techniques.
5. To introduce objected oriented design concepts. 6. To familiarize with various software testing techniques and tools.

SYLLABUS

Module 1:

Introduction to software engineering-Definition, program versus software, software process, software characteristics, brief introduction about product and process, software process and product matrices; Software life cycle models – Definition, waterfall model, increment process model, evolutionary process model, selection of the life cycle model.

Module 2: Software Requirement Analysis and Specification – Requirements engineering, types of requirements, feasibility studies, requirement elicitation, various steps of requirement analysis, requirement documentation, requirement validation. ** [An example which illustrate various stages in requirement analysis.]

Module 3: Software design – definition, various types, objectives and importance of design phase, modularity, strategy of design, function oriented design, IEEE recommended practice for software design descriptions.

Module 4: Objected Oriented Design – Analysis, design concept, design notations and specifications, design methodology. **[case study based on Objected Oriented Design]

Module 5: Software Testing – What is testing, Why should we test, who should do testing? Test case and Test suit, verification and validation, alpha beta and acceptance testing, functional testing , techniques to design test cases , Boundary value analysis, equivalence class testing, decision table based testing , cause effect graphing techniques ; structural testing , path testing , cyclomatic complexity , Graph matrices , Data flow testing , mutation testing , levels of testing , unit testing , integration testing , system testing , validation testing , a brief introduction about debugging and various testing tools.

Text Book:

1. Software Engineering (Third Edition), K K Aggarwal, Yogesh singh, New age International Publication (For unit 1,2,3,5 and case study of unit 4)
2. An integrated approach to software Engineering (Second Edition), Pankaj Jalote , Narosa Publishing House - (For Unit 4)

References:

1. Software Engineering (Seventh edition), Ian Sommerville – Addison Wesley
2. Software Engineering A practitioners approach (Sixth Edition), Roger S Pressman - Mc Graw Hill.
3. Fundamentals of Software Engineering (Second Edition), Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli - Pearson Education

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	01-06-2015 To 05-06-2015	1	Introduction to Software Engineering-definition
		2	Program versus software
		3	Software characteristics
		4	Software process
2	08-06-2015 To 12-06-2015		Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
3	15-06-2015 To 19-06-2015	5	Brief introduction about product and process, Software process and product matrices
		6	Software life cycle models- definition, Waterfall model
		7	Increment Process model: Iterative Enhancement model
		8	Increment Process model: Rapid Application Development model
4	22-06-2015 To 26-06-2015	9	Evolutionary Process Models: Prototyping Model
		10	Evolutionary Process Models: Spiral Model
		11	Selection of a life cycle model
		12	Test Paper
5	29-06-2015 To 03-07-2015	13	Software Requirement Analysis and Specification: Requirement Engineering
		14	Types of requirements, Feasibility studies
		15	Requirement Elicitation : Interview, Brainstorming Sessions
		16	Requirement Elicitation : Facilitated Application Specification Technique
6	06-07-2015 To 10-07-2015	17	Requirement Elicitation : The use case Approach, Use case diagram
		18	Requirement Analysis : requirement analysis steps
		19	Data flow diagram, Data dictionaries, ER diagram
		20	Requirement documentation, Characteristics of a good SRS
7	13-07-2015 To 17-07-2015	21	Requirements Validation
		22	Test paper
		23	Software Design: Definition, Various Types
		24	Objectives and importance of design phase,
8	20-07-2015 To 24-07-2015	25	Modularity : Coupling, Types of coupling
		26	Modularity : Cohesion, Types of cohesion
		27	Strategy of design : Bottom-Up design, Top-Down design
		28	Function oriented design: Design Notation,StructureChart
9	27-07-2015	29	IEEE Recommended practice for software design description: Definitions, Purpose of an SDD

No of Weeks	Dates	Session	Topic
	To 31-07-2015	30	IEEE Recommended practice for software design description : Design Description Information Content
		32	description : Design Description Information Content
		33	IEEE Recommended practice for software design description : Design Description Information Content
10	03-08-2015 To 07-08-2015	34	Test paper
		35	Object Oriented Design : Analysis
		36	Design Concept
		37	Design Notations and Specifications
11	10-08-2015 To 14-08-2015	38	Design Methodology
			First internal for UG/PG
			First internal for UG/PG
12	17-08-2015 To 21-08-2015		Karkkida Vavu –Holiday
			First internal for UG/PG
			First internal for UG/PG
			First internal for UG/PG
			First internal for UG/PG
13	24-08-2015 To 28-08-2015		Onam Celebration
			Holiday
			Holiday
			Holiday
			Holiday
14	31-08-2015 To 04-09-2015	39	Design Methodology
		40	Revision : Module 3
		41	Test paper
		42	Software Testing: What is Testing?, Why should we Test?, Who should do Testing?
15	07-09-2015 To 11-09-2015	43	Test case and Test Unit
		44	Verification and validation
		45	Alpha Beta and Acceptance testing ,functional testing
		46	Techniques to design test cases , Boundary value analysis
16	14-09-2015 To 18-09-2015	47	Equivalence class testing
		48	Equivalence class testing
			Annual Retreat
			Annual Retreat
17	21-09-2015 To 25-09-2015		Sree Narayana Guru Samadhi – Holiday
		49	Decision table based testing , cause effect graphing techniques
		50	Structural Testing , Path testing , Cyclomatic complexity ,
18	28-09-2015 To		Bakrid - Holiday
		51	Graph matrices , Data flow testing ,mutation testing
		52	Levels of testing , Unit Testing

No of Weeks	Dates	Session	Topic
	02-10-2015	53	Integration Testing , System Testing
		54	Validation testing,a brief introduction about debugging and various testing tools.
19	05-10-2015 To 09-10-2015		Second internal for UG/PG
			Second internal for UG/PG
			Second internal for UG/PG
			Second internal for UG/PG
			Second internal for UG/PG
20	12-10-2015 To 16-10-2015	55	Module 1: Question paper discussion
		56	Revision
		57	Module2: Question paper discussion
		58	Revision
21	19-10-2015 To 23-10-2015	59	Module3: Question paper discussion
		60	Revision
		61	Module4: Question paper discussion
			Mahanavami – Holiday
22	26-10-2015 To 30-10-2015	62	Module5: Question paper discussion
		63	Revision
			Study Leave
			Study Leave
23	02-11-2015 To 06-11-2015		Study Leave
			Study Leave
			Study Leave
			V Sem UG University Exam Begins

5B14 BCA - DATA COMMUNICATION & COMPUTER NETWORK

Hours per week : 4

Credit : 3

SYLLABUS

Module I: Introduction to data communication, important elements /components of data communication, Data transmission- Analog, Digital. Transmission media- Guided media, Unguided media. Synchronous / Asynchronous data transmission. Line configuration – Simplex, Half duplex, Duplex. Network topologies – star, Bus, ring, Mesh.

Computer networks, Use, network hardware, network structure- point to point connection, multicast, broadcast, classification of networks-LAN, WAN, Man. Network software – protocol hierarchies.design issues for layers, interfaces and services- connection oriented, connection less.

Module II: Reference models, the OSI reference model, TCP / IP reference model. Comparison between OSI and TCP / Ip models. Data Link Layer , Design issues, Services to network layer, Framing- charater count, character stuffing, bit stuffing, physical layer coding violation. Error control, flow control, Elementary data link protocols- unrestricted simplex protocol, simplex stop and wait protocol, simplex protocol for a noisy channel.

Module III: Network layer, design issues, services to the transport layer, routing algorithms- adaptive, non adaptive algorithms, optimality principle, dijkstras shortest path routing algorithm, flow based routing, hierarchical routing, congestion control algorithms – the leaky bucket algorithm, the token bucket algorithm.

Module IV: Transport layer, design issues, connection management-addressing, establishing and releasing connection, transport layer protocols- TCP, UDP

Module V: Application layer, network security, traditional cryptography, substitution ciphers, transposition ciphers, fundamental principles, secret key algorithm, data encryption standard, DES chaining, DES breaking. Public key algorithm, RSA algorithm.

References:

1. B Forousan, Introduction to data communication and networking
2. A S Tanenbaum . Computer Networks.
3. Data communication and Networks, Achyut S. godbole, TMH
4. Computer Networks – fundamentals and Applications, Rajesh, Easarakumar & Balasubramaian, Vikas pub.

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	1-06-2015 To 05-06-2015	1	Introduction to data communication, import elements
		2	Components of data communication
		3	Data transmission - Analog, Digital
		4	Transmission media
2	08-06-2015 To 12-06-2015	08 - July	Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
3	15-06-2015 To 19-06-2015	5	Guided Media –Twisted pair
		6	Coaxial Cable
		7	Fiber Optic Cable
		8	Unguided Media
4	22-06-2015 To 26-06-2015	9	Transmission mode-Parallel mode
		10	Serial mode-Asynchronous and Synchronous
		11	Line configuration-Simplex, Half Duplex ,Duplex
		12	Network Topologies-star ,Bus, Ring , Mesh
5	29-06-2015 To 03-07-2015	13	Computer Networks-Use
		14	Network hardware
		15	Network structure- point to point, multicast, broadcast
		16	Classification of networks-LAN, WAN, MAN.
6	06-07-2015 To 10-07-2015	17	Protocol hierarchies
		18	Design issues for layers
		19	Interfaces and services
		20	Connection oriented , connection less.
7	13-07-2015 To 17-07-2015	21	Class Test
		22	Reference models
		23	OSI reference model
		24	TCP/IP reference model
8	20-07-2015 To 24-07-2015	25	Comparison between OSI and TCP/IP models
		26	Data link layer-design issues
		27	Services to network layer
		28	Framing-character count
9	27-07-2015 To 31-07-2015	29	Character stuffing, bit stuffing, physical layer coding violation
		30	Error control
		31	Flow control
		32	Error detection-parity check
10	03-08-2015 To 07-08-2015	33	CRC
		34	Elementary data link protocols
		35	Unrestricted simplex protocol
		36	Simplex stop and wait protocol
11	10-08-2015 To 14-08-2015	37	Simplex protocol for a noisy channel.
		38	Revision
		12 - Aug	First internal for UG/PG

No of Weeks	Dates	Session	Topic
		13 - Aug	First internal for UG/PG
		14 - Aug	Karkkida Vavu –Holiday
12	17-08-2015 To 21-08-2015	17 - Aug	First internal for UG/PG
		18 - Aug	First internal for UG/PG
		19 - Aug	First internal for UG/PG
		20 - Aug	First internal for UG/PG
		21 - Aug	Onam Celebration
13	24-08-2015 To 28-08-2015		Holiday
			Holiday
			Holiday
			Holiday
			Holiday
14	31-08-2015 To 04-09-2015	39	Network layer
		40	Design issues
15	07-09-2015 To 11-09-2015	41	Services to the transport layer
		42	Routing algorithms-adaptive
		43	Non adaptive algorithms
		44	Optimality principle
16	14-09-2015 To 18-09-2015	45	Dijkstras shortest path routing algorithm
		46	Flow based routing
		47	Hierarchical routing
		17 - Sep	Annual Retreat
		18 - Sep	Annual Retreat
		19 - Sep	Annual Retreat
17	21-09-2015 To 25-09-2015	21 - Sep	Sree Narayana Guru Samadhi – Holiday
		48	Congestion control algorithm
		49	The leaky bucket algorithm
		24 - Sep	Bakrid - Holiday
		25 - Sep	COMET
18	28-09-2015 To 02-10-2015	50	The token bucket algorithm
		51	Transport layer-design issues
		52	Connection management
		53	Addressing
		02 - Oct	Gandhi Jayanthi – Holiday
19	05-10-2015 To 09-10-2015	05 - Oct	Second internal for UG/PG
		06 - Oct	Second internal for UG/PG
		07 - Oct	Second internal for UG/PG
		08 - Oct	Second internal for UG/PG
		09 - Oct	Second internal for UG/PG
		10 - Oct	Second internal for UG/PG
20	12-10-2015 To 16-10-2015	54	Establishing and releasing connection
		55	Transport layer protocols-TCP and UDP
		56	Application layer, network security
		57	Traditional cryptography
21	19-10-2015 To	58	Substitution ciphers
		59	Transposition ciphers

No of Weeks	Dates	Session	Topic
	23-10-2015	60	Fundamental principles
		22 - Oct	Mahanavami – Holiday
		23 - Oct	Vijayadasami – Holiday
22	26-10-2015 To 30-10-2015	61	Secret key algorithm, data encryption standard
		62	DES chaining, DES breaking
		63	Public key algorithm, RSA algorithm
			Study Leave
23	02-11-2015 To 06-11-2015		Study Leave
			Study Leave
			Study Leave
		04 - Nov	V Sem UG University Exam Begins

5B15 BCA - WEB TECHNOLOGY

Hours per Week: 4

Credit : 2

Module -1: Introduction to internet and web, An overview of internet programming – WWW design issues. Introduction to HTML-structure of HTML,tags,attributes,syntax of tags ,starting and ending tags,html doc elements-<html>,<title>,<body>,physical style tags,listing,labeling,grouping, -<a>

Module-2: Table tags-<tr>,<td>,<th> attributes-height,width,rowspan,colspan, border,color .Form-tag , attributes-type-passwd,submit,radio,check,method,action.Frame- <frame>,<frameset>, <iframe>,<noframe> and other important tags and attributes.

Module-3: Javascript-datatypes,variables,function,object,array.Client-side object hierarchy and document.object Model,<script>,event handlers,javascript in urls.Windows and frames-dialog boxes,status line,navigator object,opening Windows,closing windows,Location object,history object.- Date object- math object- Accessing form object.

Module-4: Intro to PHP and advantages of ,PHP basics-functions,string,array,object,web techniques, database.

Module-5 Client-server model, introduction to cgi,environment variables, request-response model, encoding and decoding form data. Simple programming in CGI- databse.

Book:

1. HTML-Definitive Guide O'reilley
2. Programming in PHP O'reilley
3. Programming in CGI O'reilley
4. Javascript-Definitive Guide O'reilley

Ref:

1. Complete reference in PHP-Steven Hozner
2. Beginning PHP5 (Wrox Programmer)
3. Complete reference HTML-Tata McGraw Hill

TEACHING SCHEDULE

No. of Weeks	Dates	Session	Topic
1	01-06-2015 To 05-06-2015	1	Introduction
		2	Introduction to internet
		3	HTML
		4	Structure of HTML
2	08-06-2015 To 12-06-2015		Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
3	15-06-2015 To 19-06-2015	5	HTML Tags
		6	Attributes, syntax of tags
		7	HTML doc elements
		8	Syntax of tags
		9	Practical Computer lab
		10	Practical Computer lab
		11	Practical Computer lab
4	22-06-2015 To 26-06-2015	12	HTML Lists
		13	HTML Image element
		14	Revision
		15	HTML tables
		16	Practical Computer lab
		17	Practical Computer lab
		18	Practical Computer lab
5	29-06-2015 To 03-07-2015	19	Styles used in <table> tag
		20	HTML form tag
		21	GET and POST methods
		22	Practical Computer lab
		23	Practical Computer lab
		24	Practical Computer lab
6	06-07-2015 To 10-07-2015	25	Attributes of <form> tags
		26	Action buttons
		27	Checkbox, radio button, textarea
		28	Multiple choice Elements
		29	Practical Computer lab
		30	Practical Computer lab
		31	Practical Computer lab
7	13-07-2015 To 17-07-2015	32	Labeling and grouping
		33	Frames , Frame layout
		34	<noframes>, <iframes>
		35	Revision

No. of Weeks	Dates	Session	Topic
		36	Practical Computer lab
		37	
		17-July	Ramsan - Holiday
8	20-07-2015 To 24-07-2015	38	Introduction to Javascript
		39	Lexical Structure
		40	Data Types
		41	Data Types
		42	Practical Computer lab
		43	Practical Computer lab
		44	Practical Computer lab
9	27-07-2015 To 31-07-2015	45	Data Types
		46	Variables
		47	Functions
		48	Functions
		49	Object
		50	Practical Computer lab
		51	Practical Computer lab
		52	Practical Computer lab
10	03-08-2015 To 07-08-2015	53	Array
		54	Client Side object hierarchy
		55	Document Object Model
		56	<script>
		57	Practical Computer lab
		58	Practical Computer lab
		59	Practical Computer lab
11	10-08-2015 To 14-08-2015	60	Event handlers
		61	JavaScript in URLs
		12 – Aug	First internal for UG/PG
		13 – Aug	First internal for UG/PG
		14 – Aug	Karkkida Vavu –Holiday
12	17-08-2015 To 21-08-2015	17 – Aug	First internal for UG/PG
		18 – Aug	First internal for UG/PG
		19 – Aug	First internal for UG/PG
		20 – Aug	First internal for UG/PG
		21 – Aug	Onam Celebration
13	24-08-2015 To 28-08-2015		Holiday
			Holiday
			Holiday
			Holiday
			Holiday
14	31-08-2015 To	62	Windows and Frames
		63	Dialog boxes

No. of Weeks	Dates	Session	Topic
	04-09-2015	64	Status line
		65	Navigator object
		66	Practical Computer lab
		67	Practical Computer lab
		68	Practical Computer lab
15	07-09-2015 To 11-09-2015	69	Opening windows
		70	Closing windows
		71	Location Object
		72	History Object
		73	Practical Computer lab
		74	Practical Computer lab
		75	Practical Computer lab
16	14-09-2015 To 18-09-2015	76	Date Object
		77	Math Object
		78	Accessing Form Object
		79	Practical Computer lab
		17 – Sep	Annual Retreat
		18 – Sep	Annual Retreat
		19 – Sep	Annual Retreat
17	21-09-2015 To 25-09-2015	21 – Sep	Sree Narayana Guru Samadhi - Holiday
		80	Revision
		81	Practical Computer lab
		82	Practical Computer lab
		24 – Sep	Bakrid - Holiday
18	28-09-2015 To 02-10-2015	83	Test paper of Module III
		84	Introduction to PHP advantages of PHP
		85	PHP basics- Functions
		86	String, Array
		87	Practical Computer lab
		88	Practical Computer lab
		89	Practical Computer lab
19	05-10-2015 To 09-10-2015	05 – Oct	Second internal for UG/PG
		06 – Oct	Second internal for UG/PG
		07 – Oct	Second internal for UG/PG
		08 – Oct	Second internal for UG/PG
		09 – Oct	Second internal for UG/PG
		10 – Oct	Second internal for UG/PG
20	12-10-2015 To 16-10-2015	90	Object
		91	Web Techniques
		92	Database
		93	Revision
		94	Practical Computer lab

No. of Weeks	Dates	Session	Topic
		95	Practical Computer lab
		96	Practical Computer lab
21	19-10-2015 To 23-10-2015	97	Test Paper module V
		98	Previous year question paper discussion
		99	Previous year question paper discussion
		22 – Oct	Mahanavami – Holiday
22	26-10-2015 To 30-10-2015		Study Leave
			Study Leave
			Study Leave
			Study Leave
23	02-11-2015 To 06-11-2015		Study Leave
		04 - Nov	V Semester UG University Exam Begins

5B16BCA - VISUAL PROGRAMMING

Hours per Week: 4

Credit : 3

Objectives:

- i. To introduce Windows programming environment.
- ii. To familiarize with Microsoft foundation Classes.
- iii. Skill in developing programs with VC++. iv. Introduce database connectivity using ODBC.

Module I: The windows environment, dynamic linking, your first windows program, A character – mode model, windows equivalent , Header files ,The MessageBox() function, An introduction to Unicode, brief history, Windows and messages, A window of one's own, An Architectural overview ,Registering the window class, Creating and displaying the window, the message loop, processing the messages, WM_PAINT and WM_DESTROY messages, An Introduction to GDI: Device context, Getting Device context, basic drawing,

Structure of GDI primitives, Drawing basic shapes.

12 Hrs

Module II: Overview of MFC programming: What is MFC, Advantages of using MFC, features, MFC fundamentals: Class hierarchy, member functions, global functions, AFXWIN.H, MFC application skeleton, creating frame windows, CWinApp, Processing messages: Responding to messages- MFC style, BEGIN_MESSAGE_MAP() macro, Responding to key press, MFC Device context classes, WM_PAINT, WM_DESTROY, DrawText() and TextOut() functions, simple graphics programs.

12Hrs

Module III: Introducing menus: Using Resources, compiling .RC files, creating a menu, Responding to Menu commands, Keyboard: keyboard message handlers , virtual key code,sample programs for handling keyevents, Mouse: Handlers, handling mouse events program. Toolbar: CToolbar class

11Hrs

Module IV: Dialog Based applications: creating a dialog based programs, modal and modeless dialog boxes, the CDialog class, DoDataExchange(), UpdateData(). OnInItDialog(), DoModal(),OnOk(), OnCancel() functions. Writing simple dialog based programs.

10hrs

Module V: ODBC classes: ODBC,database drivers , data source name, connecting visual C++ programs to remote database, CDataBase class, Open(), Close() functions, CRecordSet class, establishing connection, MoveFirst(), MoveNext(), MovePrev(), MoveLast functions, adding, editing and deleting records. M_strSort and m_StrFilter variables. creating simple database editing programs.

10Hrs

Texts:

Module I—Programming windows by Charles PetZold

Module II ---VC++ 6 from the ground up by John Paul Muller

Module III ---VC++6 programming by Yaswant Kanitkar

Module IV ---mastering VC++ by Micheal J.Young BpB publications

Module V ---MFC programming with VC++6 by David white,Kennscribner,Eugene olafsen.

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	01-06-2015 To 05-06-2015	01	The windows environment, dynamic linking
		02	A character – mode model
		03	windows equivalent , Header files
		04	The MessageBox() function
		05	Practical Computer Lab
		06	Practical Computer Lab
		07	Practical Computer Lab
		08	Practical Computer Lab
2	08-06-2015 To 12-06-2015		Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
3	15-06-2015 To 19-06-2015	10	An introduction to Unicode, brief history
		11	Windows and messages
		12	Registering the window class
		13	Creating and displaying the window
		14	Practical Computer Lab
		15	Practical Computer Lab
		16	Practical Computer Lab
		17	Practical Computer Lab
4	22-06-2015 To 26-06-2015	18	the message loop
		19	processing the messages
		20	WM_PAINT and WM_DESTROY messages
		21	An Introduction to GDI: Device context
		22	Practical Computer Lab
		23	Practical Computer Lab
		24	Practical Computer Lab
		25	Practical Computer Lab
5	29-06-2015 To 03-07-2015	26	Getting Device context, basic drawing
		27	Structure of GDI primitives
		28	Drawing basic shapes
		29	Test Paper Module I
		30	Practical Computer Lab
		31	Practical Computer Lab
		32	Practical Computer Lab
		33	Practical Computer Lab
6	06-07-2015 To 10-07-2015	34	What is MFC, Advantages of using MFC
		35	Features of MFC fundamentals:
		36	Class hierarchy
		37	member functions, global functions
		38	Practical Computer Lab
		39	Practical Computer Lab

No of Weeks	Dates	Session	Topic
		40	Practical Computer Lab
		41	Practical Computer Lab
7	13-07-2015 To 17-07-2015	42	AFXWIN.H
		43	MFC application skeleton
		44	creating frame windows
		45	CWinApp
		46	Practical Computer Lab
		47	Practical Computer Lab
		48	Practical Computer Lab
		49	Practical Computer Lab
8	20-07-2015 To 24-07-2015	50	Processing messages: Responding to messages
		51	BEGIN_MESSAGE_MAP() macro
		52	Responding to key press
		53	MFC Device context classes
		54	Practical Computer Lab
		55	Practical Computer Lab
		56	Practical Computer Lab
		57	Practical Computer Lab
9	27-07-2015 To 31-07-2015	58	WM_PAINT, WM_DESTROY
		59	DrawText() and TextOut() functions
		60	Simple graphics programs.
		61	Test Paper Module II
		62	Practical Computer Lab
		63	Practical Computer Lab
		64	Practical Computer Lab
		65	Practical Computer Lab
10	03-08-2015 To 07-08-2015	66	Introducing menus
		67	Using Resources, compiling .RC files
		68	creating a menu, Responding to Menu commands
		69	keyboard message, handlers
		70	Practical Computer Lab
		71	Practical Computer Lab
		72	Practical Computer Lab
		73	Practical Computer Lab
11	10-08-2015 To 14-08-2015	74	virtual key code, sample programs for handling keyevents
		75	Mouse: Handlers, handling mouse events program
		76	Practical Computer Lab
		77	Practical Computer Lab
			First Internal for UG/PG
			First Internal for UG/PG
12	17-08-2015 To 21-08-2015		Karkkida Vavu –Holiday
			First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG

No of Weeks	Dates	Session	Topic
			Onam Celebration
13	24-08-2015 To 28-08-2015		Holiday
			Holiday
			Holiday
			Holiday
			Holiday
14	31-08-2015 To 04-09-2015	78	Introduction to Toolbar:
		79	CToolbar class
		80	Test Paper Module III
		81	creating a dialog based programs
		82	Practical Computer Lab
		83	Practical Computer Lab
		84	Practical Computer Lab
		85	Practical Computer Lab
15	07-09-2015 To 11-09-2015	86	modal and modaless dialog boxes
		87	CDialog class, DoDataExchange(), UpdateData().
		88	the OnInItDialog(), DoModal(), OnOk(), OnCancel() functions
		89	Writing simple dialog based programs.
		90	Practical Computer Lab
		91	Practical Computer Lab
		92	Practical Computer Lab
		93	Practical Computer Lab
16	14-09-2015 To 18-09-2015	94	Test Paper Module IV
		95	ODBC,database drivers , data source name
		96	Practical Computer Lab
		97	Practical Computer Lab
			Annual Retreat
			Annual Retreat
			Annual Retreat
17	21-09-2015 To 25-09-2015		Sree Narayana Guru Samadhi - Holiday
		98	connecting visual C++ programs to remote database
		99	CDataBase class, Open(), Close() functions
		100	CRecordSet class
		101	Practical Computer Lab
			Bakrid – Holiday
			COMET
18	28-09-2015 To 02-10-2015	103	Establishing connection,
		104	MoveFirst(), MoveNext(), MovePrev(), MoveLast functions
		105	adding, editing and deleting records
		106	M_strSort and m_StrFilter variables
		107	Practical Computer Lab
		108	Practical Computer Lab
		109	Practical Computer Lab
			Gandhi Jayanthi – Holiday

No of Weeks	Dates	Session	Topic
19	05-10-2015 To 09-10-2015		Second Internal for UG/PG
			Second Internal for UG/PG
			Second Internal for UG/PG
			Second Internal for UG/PG
			Second Internal for UG/PG
			Second Internal for UG/PG
20	12-10-2015 To 16-10-2015	110	Creating simple database editing programs.
		111	Revision Module I
		112	Revision Module II
		113	Revision Module III
		114	Practical Computer Lab
		115	Practical Computer Lab
		116	Practical Computer Lab
		117	Practical Computer Lab
21	19-10-2015 To 23-10-2015	118	Revision Module IV
		119	Revision Module V
		120	Previous year question paper discussion
		121	Practical Computer Lab
		122	Practical Computer Lab
			Mahanavami – Holiday
	Vijayadasami – Holiday		
22	26-10-2015 To 30-10-2015	123	Previous year question paper discussion
		124	Previous year question paper discussion
			Study Leave
			Study Leave
23	02-11-2015 To 06-11-2015		Study Leave
			Study Leave
		04 – Nov	V Sem UG University Exam Begins

5D07 CSC / 5D07 BCA - WEB TECHNOLOGY

Hours/Week:2

Credits:2

Module I:

Introduction to internet and web, An overview of internet programming –WWW design issues. Introduction to HTML-structure of HTML, tags, attributes, syntax of tags ,starting and ending tags, html doc elements-<html>,<title>,<body>,physical style tags, listing, labeling, grouping- - <a>-.

Module II:

Table tags-<tr>,<td>,<th> attributes-height, width, rowspan, colspan, border, color. Form-tag ,attributes- type-passwd, submit, radio, check, method, action. <text area>-Frame-<frame>,<frameset>,<iframe>,<noframe> and other important tags and attributes.

Module III

Javascript-datatypes,variables,function,object, array.Client-side object hierarchy and document. object Model, <script>,event handlers, javascript in urls.

Module IV:

Windows and frames-dialog boxes, status line, navigator object, opening Windows, closing windows, Location object, history object. Date object- Math Object- Accessing Form object

Module V

Client-server model, introduction to cgi, environment variables, request-response model, Simple programming in CGI

BOOKS:

1. HTML-Definitive Guide O'reilley
2. Programming in CGI O'reille
3. Javascript-Definitive Guide O'reilley

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	22-06-2015 To 26-06-2015	1	Introduction to internet and web
		2	An overview of internet programming –WWW design
2	29-06-2015 To 03-07-2015	3	Introduction to HTML-structure of HTML, tags, attributes, syntax of tags
		4	html doc elements-<html>,<title>,<body>,physical style tags
3	06-07-2015 To 10-07-2015	5	Listing
		6	labeling, grouping- - <a>
4	13-07-2015 To 17-07-2015	7	Test paper module-I
		8	Table tags-<tr>,<td>,<th> attributes-height, width, rowspan, colspan, border, color
5	20-07-2015 To 24-07-2015	9	Form-tag ,attributes- type-passwd, submit, radio, check
		10	Form tag-method, action
6	27-07-2015 To 31-07-2015	11	text area
		12	Frame- <frame>,<frameset>
7	03-08-2015 To 07-08-2015	13	<iframe>,<noframe>
		14	and other important tags and attributes
8	10-08-2015 To 14-08-2015	15	Revision
		16	Test paper Module-II
		12 - Aug	First internal for UG/PG
		13 - Aug	First internal for UG/PG
		14 - Aug	Karkkida Vavu –Holiday
9	17-08-2015 To 21-08-2015	17 - Aug	First internal for UG/PG
		18 - Aug	First internal for UG/PG
		19 - Aug	First internal for UG/PG
		20 - Aug	First internal for UG/PG
		21 - Aug	Onam Celebration
10	24-08-2015 To 28-08-2015		Onam Vacation
			Onam Vacation
			Onam Vacation
			Onam Vacation
			Onam Vacation
11	31-08-2015 To 04-09-2015	17	Javascript-datatypes,variables,function,object, array.
		18	function,object, array.
12	07-09-2015 To 11-09-2015	19	Client-side object hierarchy and document. object Model, <script>
		20	event handlers, javascript in urls

No of Weeks	Dates	Session	Topic
13	14-09-2015 To 18-09-2015	21	Windows and frames-dialog boxes, status line, navigator object
		22	opening Windows ,closing windows, Location object, history object
14	21-09-2015 To 25-09-2015	23	Date object- Math Object- Accessing Form object
		24	Test paper Module-III
15	28-09-2015 To 02-10-2015	25	Client-server model, introduction to cgi, environment variables
		26	request-response model,
16	05-10-2015 To 09-10-2015	05 - Oct	Second Internal for UG/PG
		06 - Oct	Second Internal for UG/PG
		07 - Oct	Second Internal for UG/PG
		08 - Oct	Second Internal for UG/PG
		09 - Oct	Second Internal for UG/PG
		10 - Oct	Second Internal for UG/PG
17	12-10-2015 To 16-10-2015	27	Simple programming in CGI
		28	Test paper Module-I V
18	19-10-2015 To 23-10-2015	29	Revision
		30	Revision
19	26-10-2015 To 30-10-2015	31	Previous year question paper discussion
		32	Study Leave
20	02-11-2015 To 06-11-2015		Study Leave
			Study Leave
		04 - Nov	V Sem UG University Exam Begins