MAHATMA GANDHI UNIVERSITY,NALGONDA
BA/BSC(Computer Application)
I SEMESTER SYLLABUS

PROGRAMMING IN C

PAPER-I

Lecture	Topic	Remarks
UNIT-I	COMPUTER FUNDAMENTALS,PROGRAMMING FUNDAMENTALS,ALGORITHMS,BASICS OF C	
Lecture-1	Introduction of computers,classification of computers	
Lecture-2	Anatomy of computer,memory hiearchy	
Lecture-3	Introduction to OS	
Lecture-4	Operational overview of CPU	
Lecture-5	Generation and classification of programming languages	
Lecture-6	compiler,interpreting,loading,linking of a program	
Lecture-7	developing program,software development	
Lecture-8	Algorithms(defination),pseudo code,flow chart	
Lecture-9	strategy for designing Algorithms,Structured programming concept	
Lecture-10	Overview of C,Developing programs in C,Parts of siple C programs,Structure of a C program	
Lecture-11	Comments,Program Staements,C-Tokens,Keywords,Identifiers	
Lecture-12	Data Types in C	
Lecture-13	variables,constants,operators in c	
Lecture-14	Expressions,Expression evaluation precedence and associativty	
Lecture-15	Type conversions	
Unit-II	INPUT-OUTPUT,CONTROL STATEMENTS,ARRAYS AND STRINGS	
Lecture-16	Formatted Input-Output functions	
Lecture-17	Non-Formatted Input-Output functions	
Lecture-18	Escape Sequence	
Lecture-19	Selection Statemens(If,if-else,if-else-I,nested if)	
Lecture-20	Comma operator,Conditional operator	
Lecture-21	Switch Statement	
Lecture-22	Iterative statements While(and programs)	
Lecture-23	Do-while(and programs)	
Lecture-24	For(and Programs)	
Lecture-25	Special control statements(goto,Break,Continue,Return,Exit)	
Lecture-26	Arrays(defination)and types	
Lecture-27	One dimentional Array,two dimentional Array	
Lecture-28	Character Array	
Lecture-29	Functions from Ctype.h headderfile	
Lecture-30	functions from String.h headderfile	

Unit-III	FUNCTIONS, POINTERS	
Lecture-31	Concept of a Function,Using Functions	
Lecture-32	Pre-define Functions	
Lecture-33	Userdefine functions	
Lecture-34	Call-by-Value	
Lecture-35	Call-by-Reference	
Lecture-36	passing Array to Functions,scope of a variable	
Lecture-37	Storage Classes	
Lecture-38	Inline Functions	
Lecture-39	Recursion	
Lecture-40	Introduction to Pointers	
Lecture-41	Address of Operator(&),pointer(*)	
Lecture-42	Uses of pointers	
Lecture-43	Arrays and Pointers	
Lecture-44	Pointers and Strings	
Lecture-45	Dynamic Memory Allocation	
Unit-IV	Userdefine DATATYPES(Structures and Unions) AND FILES IN C	
Lecture-46	User define DataTypes	
Lecture-47	Declaring a Structure	
Lecture-48	Declaring members of structure	
Lecture-49	Initalization of a structure	
Lecture-50	Accessing members of a Structure	
Lecture-51	Declaring Union	
Lecture-52	Declaring members of union	
Lecture-53	Initalization of a Union	
Lecture-54	Accessing members of a Union	
Lecture-55	Structures Vs Unions	
Lecture-56	Enumeration Types	
Lecture-57	Introduction to Files,using Files	
Lecture-58	Working with text files	
Lecture-59	working with Binary files	
Lecture-60	File management functions	

TEXT	Pradip Dey, Manas Ghosh, *Computer Fundamentals and Programming in C* (2e)	
References	Ivor Horton, Beginning C	
	Ashok Kamthane, Programming in C	
	Herbert Schildt, The Complete Reference C	
	Paul Deitel, Harvey Deitel, C How To Program	

	Byron S. Gottfried, Theory and Problems of Programming with C Brian W. Kernighan, Dennis M. Ritchie, The C Programming Language
	B. A. Forouzan, R. F. Gilberg, A Structured Programming Approach Using C

MAHATMA GANDHI UNIVERSITY,NALGONDA
BA/BSC(Computer Application)
II SEMESTER SYLLABUS

PROGRAMMING IN C++

PAPER-II

Lecture	Topic	Remarks
UNIT-I	**INTRODUCTION TO C++,FUNCTIONS IN C++**	
Lecture-1	Applications,example programs,tokens	
Lecture-2	datatypes in c++	
Lecture-3	operators in c++,Expressions in c++	
Lecture-4	Control structures	
Lecture-5	Arrays in c++	
Lecture-6	Strings,pointers	
Lecture-7	searching in Array	
Lecture-8	Sorting in array	
Lecture-9	Introduction to Functions in c++,prototype	
Lecture-10	passing Data by value,Referance variables	
Lecture-11	using Refernce variables as parameters	
Lecture-12	Inline functions	
Lecture-13	Default arguments in functions	
Lecture-14	overloading functions	
Lecture-15	Passing Arrays to Functions	
Unit-II	**OBJECT ORIENTED PROGRAMMING,CLASSES and OBJECT**	
Lecture-16	Procedural programming Vs object oriented programming	
Lecture-17	Terminology,Benefits of OOPs,Oops language,Oops Applications	
Lecture-18	Introduction to Classes and Object	
Lecture-19	Defination of Instance of Class	
Lecture-20	Acesspecifier,Why have private members	
Lecture-21	Seperating class specifiction from Implementation	
Lecture-22	Inline Member functions	
Lecture-23	Constructors,Passing arguments to constructor,Copy constructor	
Lecture-24	Destructors	
Lecture-25	Overloading constructors	
Lecture-26	Private member Functions	
Lecture-27	Arrays of Objects	
Lecture-28	Instance of Static members	
Lecture-29	Friends of a classes	
Lecture-30	member wise assignment,Operator overloading	

Unit-III	INHERITANCE,POLYMORPHISM,C++ STREAMS	
Lecture-31	Inheritance and Types	
Lecture-32	Inheritance and Types examples	
Lecture-33	protected members and Class access	
Lecture-34	Base class access specification	
Lecture-35	Constructor in Base and Derived Classes	
Lecture-36	Destructor in Base and Derived Classes	
Lecture-37	Redefining base class Functions	
Lecture-38	Polymorphism	
Lecture-39	virtual member Functions	
Lecture-40	Abstract Base Classes	
Lecture-41	Pure Virtual Functions	
Lecture-42	Multiple Inheritance	
Lecture-43	Stream classes	
Lecture-44	Unformatted I/O operations	
Lecture-45	Formatted I/O operations	
Unit-IV	EXCEPTIONS AND TEMPLATES	
Lecture-46	Introduction to Exception	
Lecture-47	Throwing an Exception	
Lecture-48	Handling an Exception	
Lecture-49	Object oriented Exception	
Lecture-50	Exception Handling with Classes	
Lecture-51	Multiple Exceptions	
Lecture-52	Extracting data from the Exception class	
Lecture-53	Rethrowing an Exception	
Lecture-54	Template defination and types	
Lecture-55	Function Template	
Lecture-56	Function Template with multiple types	
Lecture-57	overloading function Template	
Lecture-58	Class Template-Introduction	
Lecture-59	Defining object of the class Template	
Lecture-60	Class Template and Inheritance	

TEXT	Tony Gaddis, Starting out with C++: from control structures through objects (7e)	
References	B. Lippman, C++ Primer	
	Bruce Eckel, Thinking in C++	
	K.R. Venugopal, Mastering C++	
	Herbert Schildt, C++: The Complete Reference	
	Bjarne Stroustrup, The C++ Programming Language	
	Sourav Sahay, Object Oriented Programming with C++	

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BA/BSC(Computer Application)
III SEMESTER SYLLABUS

RELATIONAL DATABASE MANAGEMENT SYSTEMS

PAPER-III

Lecture	Topic	Remarks
UNIT-I	**INTRODUCTION TO DATABASES,RELATIONAL MODEL**	
Lecture-1	Introduction to DataBase	
Lecture-2	Traditional File based System	
Lecture-3	DataBase Approach	
Lecture-4	Role in the DB environment	
Lecture-5	Advantages and Disadvantages of DBMS	
Lecture-6	Three level ANSI-SPARC Architechtures	
Lecture-7	DataBase Languages(DDL)	
Lecture-8	DataBase Languages-DML	
Lecture-9	Data Models	
Lecture-10	Functions of DBMS	
Lecture-11	Components of DBMS	
Lecture-12	Relational Model -Introduction,Terminology	
Lecture-13	Terminology	
Lecture-14	Integrity Constrains	
Lecture-15	Views	
UNIT-II	**STRUCTURED QUERY LANGUAGE**	
Lecture-16	Introduction, Simple queries,Sorting Results	
Lecture-17	SQL Aggregate functions,Grouping Results	
Lecture-18	Sub- Queries , ANY and ALL,MultiTable Queries , EXIST and NOT EXIST	
Lecture-19	Combining results Tables, Database updates	
Lecture-20	The ISO SQL datatypes	
Lecture-21	Integrrity Enhancement features	
Lecture-22	Domain Constraints	
Lecture-23	Entity Integrity, Referential Integrity	
Lecture-24	General Constraints	
Lecture-25	Data Definition - Creating a DB, Creating a Table	
Lecture-26	Changing a Table Definition, Removing a Table	
Lecture-27	Creating an Index, Removing an Index	
Lecture-28	Views - Creating a View, Removing a View, View resolution	
Lecture-29	Restrictions on Views- View Updatability, WITH CHECK OPTION	
Lecture-30	Advantages and Disadvantages of Views	

Unit-III	**ADVANCED SQL, ENTITY- RELATIONSHIP MODELING, ENHANCED ENTITY-RELATIONSHIP MODELING**	
Lecture-31	SQL Programming Language, Declarations, Assignments	
Lecture-32	Control Statements	
Lecture-33	Exceptions	
Lecture-34	Cursors, Sub Programs	
Lecture-35	Stored Procedures,Functions	
Lecture-36	Packages	
Lecture-37	Triggers	
Lecture-38	Recursions	
Lecture-39	Entity Relationship Modeling: - Entity Types, Relationship Types	
Lecture-40	Attributes(Types), Keys	
Lecture-41	**S**trong and Weak Entity Types	
Lecture-42	Attributes on Relationships, Structural Constraints	
Lecture-43	Problems with ER- Models - Fan traps, Chasm traps	
Lecture-44	Enhanced Entity Relationship Modeling - Specialization, Generalization	
Lecture-45	Aggregation, Composition	
UNIT - IV	**FUNCTIONAL DEPENDENCIES, NORMALIZATION, TRANSACTION MANAGEMENT**	
Lecture-46	Functional Dependencies - Anomalies	
Lecture-47	Partial Functional Dependency, Transitive Funcional Dependency	
Lecture-48	Normalization - The Purpose of Normalization, Normalization Supports DB Design	
Lecture-49	Data Redundancy and Update Anomalies	
Lecture-50	Fuctional Dependency in Brief	
Lecture-51	The Process of Normalization - 1 NF, 2 NF	
Lecture-52	3 NF, BCNF	
Lecture-53	The DB Design methodology for Relational DB	
Lecture-54	Transaction Support - Properties of Transactions	
Lecture-55	DB Architectures	
Lecture-56	Concurrency Control - The Need For Concurrency Control	
Lecture-57	Serializability	
Lecture-58	Recoverability	
Lecture-59	Locking Methods - DeadLocks	
Lecture-60	Time Stamping Methods	

TEXT	Thomas M. Connolly, Carolyn E. Begg, Database Systems–A Practical Approach to Design, Implementation, and Management (6e)
References	Sharon Allen, Evan Terry, Beginning Relational Data Modeling Jeffrey A. Hoffer, V. Ramesh, Heikki Topi, Modern Database Management Raghu Ramakrishnan, Johannes Gehrke, Database Management Systems Ramez Elmasri, Shamkant B. Navathe, Fundamentals of Database Systems Abraham Silberschatz, Henry F. Korth, S. Sudarshan, Database System Concepts Carlos Coronel, Steven Morris, Peter Rob, Database Systems: Design, Implementation, and Management

MAHATMA GANDHI UNIVERSITY,NALGONDA
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IV SEMESTER SYLLABUS

COMPUTER NETWORKS
PAPER-IV

Lecture	Topic	Remarks
UNIT-I	**INTRODUTION , OPERATION SYSTEM STRUCTURE, PROCESS CONCEPT, MASS STORAGE STRUCTURE**	
Lecture-1	Computer System Architecture	
Lecture-2	Computing Environments	
Lecture-3	Operating System Services	
Lecture-4	User Interface for Operating System	
Lecture-5	System Calls	
Lecture-6	Types of System Calls	
Lecture-7	Operating System Structure	
Lecture-8	Process Concepts	
Lecture-9	CPU Scheduling Concepts	
Lecture-10	Scheduling Criteria	
Lecture-11	Over View of Main Memory	
Lecture-12	Virtual Memory	
Lecture-13	Mass Storage Structure	
Lecture-14	File Systems	
Lecture-15	File Systems Implementations	
UNIT - II	**INTRODUCTION , CATAGORIES OF NETWORKS , TRANSMISSION MEDIA**	
Lecture-16	Data Communication Componets	
Lecture-17	Line Configuration	
Lecture-18	Tropologies	
Lecture-19	Transmission Mode	
Lecture-20	Catagories of Networks	
Lecture-21	ISO Reference Model	
Lecture-22	Layered Architecture of ISO	
Lecture-23	TCP/IP reference Model	
Lecture-24	ISO reference Model Vs TCP/IP reference Model	
Lecture-25	Transmission Media	
Lecture-26	Guided Media - Twisted Pair cable	
Lecture-27	Co-axial Cable	
Lecture-28	Optical Fibers	
Lecture-29	Unguided Media - Satellite Communication	
Lecture-30	Cellular Telephony	

Unit-III	DATA LINK LAYER, LOCAL AREA NETWORKS	
Lecture-31	Error Detection - VRC,LRC	
Lecture-32	CRC	
Lecture-33	Checksum	
Lecture-34	Error Correction - Hamming Code	
Lecture-35	Burst Error Correction	
Lecture-36	Line Descipline - ENQ/ACK,Poll/Select	
Lecture-37	Flow Control - STOP and WAIT,Sliding Window	
Lecture-38	Error Control - STOP and WAIT ARQ	
Lecture-39	Sliding Window ARQ	
Lecture-40	Go - back - n ARQ	
Lecture-41	Select - Reject ARQ	
Lecture-42	LANS - Introduction to IEEE 802,Ethernet	
Lecture-43	CSMA/CD	
Lecture-44	Implementation-Token Ring - Token passing Implementation	
Lecture-45	Multiplexing,Switching	
UNIT-IV	NETWORKING AND INTER NETWORKING DEVICES, TRANSPORT LAYER, UPPER OSI LAYERS	
Lecture-46	Repeaters, Bridges, Routers	
Lecture-47	Gateways	
Lecture-48	Switches	
Lecture-49	Distance Vector Routing Algorithm	
Lecture-50	Transport Layer	
Lecture-51	Duties of Transport Layer	
Lecture-52	Connections	
Lecture-53	Transmission Control Protocol(TCP)	
Lecture-54	User Datagram Protocol(UDP)	
Lecture-55	Upper OSI Layers	
Lecture-56	Presentation Layer	
Lecture-57	Presentation Layer	
Lecture-58	Application Layer	
Lecture-59	Client -Server Model	
Lecture-60	Sockets	

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	Behrouz A. Forouzan, Data Communication and Networking (2e Update)
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	Behrouz A Forouzan, Firouz Mosharraf, Computer Networks A Top-Down Approach
	James F. Kurose, Keith W. Ross, Computer Networking: A Top-Down Approach Featuring
	the Internet

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V SEMESTER SYLLABUS

Multimedia Systems

PAPER-V

Lecture	Topic	Remarks
UNIT-I	**MULTIMEDIA**	
Lecture-1	Introduction, Definitions	
Lecture-2	Where to use Multimedia	
Lecture-3	Multimedia in Business, Schools, Home	
Lecture-4	Multimedia in Schools, Home	
Lecture-5	Multimedia in Public Places	
Lecture-6	Multimedia in Virtual Reality	
Lecture-7	Delivering Multimedia	
Lecture-8	Text :- Meaning, Fonts and faces	
Lecture-9	Using Text in Multimedia	
Lecture-10	Computers and Text	
Lecture-11	Font Editing and Design Tools	
Lecture-12	Hypermedia and HyperText	
Lecture-13	Images - Before you Start to Create	
Lecture-14	Making Still images	
Lecture-15	Color Images	
UNIT - II	**SOUND, ANIMATION AND VIDEO**	
Lecture-16	Sound - The power of Sound	
Lecture-17	Digital Audio	
Lecture-18	MIDI Audio	
Lecture-19	MIDI vs. Digital Audio	
Lecture-20	Multimedia System Sounds	
Lecture-21	Audio File Formats	
Lecture-22	Adding Sound to your Multimedia Project	
Lecture-23	Animation - The Power of Motion	
Lecture-24	Principles of Animation	
Lecture-25	Animation by Computer	
Lecture-26	Making Animations	
Lecture-27	Video - Using Video	
Lecture-28	How Video works and Displayed	

Lecture-29	Digital Video Containers	
Lecture-30	Obtaining Video Clips	
Lecture-31	Shooting and Editing Video	
Unit-III	**MAKING MULTIMEDIA**	
Lecture-32	The stags of a Multimedia Project	
Lecture-33	**The Intangibles**	
Lecture-34	Hardware and Software	
Lecture-35	Authoring Systems	
Lecture-36	The Internet and Multimedia - Internet History	
Lecture-37	Internet Working	
Lecture-38	Multimedia on the Web	
Lecture-39	Designing for the World wide web	
Lecture-40	Developing for the Web	
Lecture-41	Text for the Web	
Lecture-42	Images for the Web	
Lecture-43	Sound for the Web	
Lecture-44	Animation for the web	
Lecture-45	Video for the Web	

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	K. Andleigh, K. Thakkar, Multimedia System Design	
	Ralf Steinmetz, Klara Naharstedt, Multimedia: Computing, Communications Applications	

MAHATMA GANDHI UNIVERSITY,NALGONDA
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V SEMESTER SYLLABUS

WEB TECHNOLOGIES
PAPER-V

Lecture	Topic	Remarks
UNIT-I	**STRUCTURING DOCUMENTS FOR THE WEB**	
Lecture-1	Introducing HTML and XHTML, Basic Text Formatting	
Lecture-2	Presentational Elements,Phrase Elements,Lists	
Lecture-3	Editing Text,Core Elements and Attributes, Attribute Group	
Lecture-4	Links and Navigation - Basic Links,Creating Links with the <a> Element,Advanced E-mail Links	
Lecture-5	Images, Audio and Video - Adding Images Using the <img> Element	
Lecture-6	Using Images as Links Image Maps	
Lecture-7	Choosing the Right Image Format	
Lecture-8	Adding Flash, Video and Audio to your Web Pages	
Lecture-9	Tables: Introducing Tables Grouping Section of a Table	
Lecture-10	Nested Tables, Accessing Tables	
Lecture-11	Forms - Introducing Forms, Form Controls	
Lecture-12	Sending Form Data to the Server	
Lecture-13	Frams - Introducing Frameset, <Frame> Element,Creating Links Between Frames	
Lecture-14	Setting a Default Target Frame Using <base> Element, Nested framesets	
Lecture-15	Inline or Floating Frames with <iframe>	
UNIT -II	**CASCADING STYLE SHEETS**	
Lecture-16	Introducing to CSS, Where you can Add CSS Rules	
Lecture-17	CSS Properties - Controlling Text	
Lecture-18	Text Formatting, Text Pseudo Classes	
Lecture-19	Selectors, lengths	
Lecture-20	Introducin the Box Model	
Lecture-21	More Cascading Style Sheets - Links	
Lecture-22	Lists, Tables, Outlines	
Lecture-23	The Focus and activate Pseudo classes Generated Content	
Lecture-24	Miscellaneous Propeties, Additional Rules	
Lecture-25	Positioning and Layout with CSS	
Lecture-26	Page Layout - Understanding the Site's Audience, Page Size	
Lecture-27	Designing pages, Coding your Design	

Lecture-28	Developping for Mobile Devices	
Lecture-29	Design Issues - Typography	
Lecture-30	Navigation, Tables, Forms	
UNIT- III	**LEARNING JAVASCRIPT**	
Lecture-31	How to Add Script to your pages	
Lecture-32	The Document object Model	
Lecture-33	variables, Operators, Functions	
Lecture-34	Control Statements	
Lecture-35	Looping , Events	
Lecture-36	Built - In Objects	
Lecture-37	Working with javaScript	
Lecture-38	Practical Tips for Writing Scripts	
Lecture-39	Form validation,Form Enhancements	
Lecture-40	JavaScript Libraries	
Lecture-41	Putting Your Site on the Web	
Lecture-42	Meta Tags	
Lecture-43	Testing your site, Talking the Leap to Live	
Lecture-44	Telling the world about your site	
Lecture-45	Understanding your visitors	

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References	Chris Bates, Web Programming	
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	Ralph Moseley and M. T. Savaliya, Developing Web Applications	
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MAHATMA GANDHI UNIVERSITY,NALGONDA
BA/BSC(Computer Applications)
VI SEMESTER SYLLABUS

MOBILE APPLICATIONS

PAPER-VI

Lecture	Topic	Remarks
UNIT-I	**INTRODUCTION TO PROGRAMMING AND APP INVENTOR : INTRODUCTION**	
Lecture-1	INTRODUCTION	
Lecture-2	What is a Computer Pogram ? Introducing App Inventor	
Lecture-3	Getting hands-On with App,	
Lecture-4	Tutorial 1-1,1-2,1-3,1-4 Working with Media	
Lecture-5	Displaying Images	
Lecture-7	Tutorial 2-1,2-2,2-3,	
Lecture-8	Duplicating Blocks and Using Dropdowns	
Lecture-9	Sounds, Color Blocks,layout Components	
Lecture-10	Tutorial 2-7 Input, Variables, and Calculations	
Lecture-11	The Txt Box Component , Performin Calculations	
Lecture-12	Tutorial 3-1,3-2,	
Lecture-13	Storing Data with Variables Tutorials 3-3	
Lecture-14	Creating Blocks with Type blocking	
Lecture-15	Math Functions	
UNIT -II	**Decision Blocks and Boolean**	
Lecture-16	Introduction to Decision Blocks	
Lecture-17	Relational Operators and the if Block	
Lecture-18	Tutorial 4-1	
Lecture-19	The if then else Block Tutorial 4-2	
Lecture-20	A first Look At Comparing Strings	
Lecture-21	logical operaors	
Lecture-22	Tutorial 4-4, Nested Decision Blocks	
Lecture-23	Tutorial 4-5 the if hen else if Block	
Lecture-24	The Screen's Initialize Event	
Lecture-25	The ListPickerComponent	
Lecture-26	The While loop	
Lecture-27	Tutorial 5-1	
Lecture-28	The for each Loop Tutorial 5-2	
Lecture-29	The Clock Component	
Lecture-30	The datePicker Component Procedures and Functions	

UNIT- III	Lists - Graphs and Animation	
Lecture-31	The Canvas Component, Tutorial 9-1	
Lecture-32	Tutorial 9-1	
Lecture-33	The Ball and ImageSprite Component	
Lecture-34	Tutorial 9-2	
Lecture-35	Tutorial 9-3 , Using the clock Component to Create Animations Working with Text	
Lecture-36	Using the clock Component to Create Animations Working with Text	
Lecture-37	Cncatenating Strings	
Lecture-38	Comparing Strings	
Lecture-39	Trimming a String	
Lecture-40	Converting Case	
Lecture-41	Finding a Substring Tutorial 10-3	
Lecture-42	Replacing a Substring	
Lecture-43	Extracting a Substring	
Lecture-44	Splitting a Substring Text to Speech	
Lecture-45	text Messaging	
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References	Mark L. Murphy, Beginning Android	
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VI SEMESTER SYLLABUS

PHP PROGRAMMING

PAPER-VI

Lecture	Topic	Remarks
UNIT-I	**INTRODUCING PHP**	
Lecture-1	What is PHP? Why use PHP?	
Lecture-2	Evolution of PHP, Installing PHP, Otherways to run PHP,Creating your First Script	
Lecture-3	PHP Language basics - using variables, Understanding Datatypes	
Lecture-4	Operators and Expressions, Constants	
Lecture-5	Decisions and Loops- Making Decisions	
Lecture-7	Doing Repetitive Tasks with Looping	
Lecture-8	Mixing Decisions and looping with HTML Strings	
Lecture-9	Creating and Accessing Strings, Searching Strings	
Lecture-10	Replacing Text with Strings, dealing with Upper and Lowercase	
Lecture-11	Formatting Strings	
Lecture-12	Arrays - Creating Arrays, accessing Array Elements	
Lecture-13	looping Through Arrays with for-each	
Lecture-14	Working with Multidimensional Arrays	
Lecture-15	Manipulating Arrays	
UNIT -II	**FUNCTIONS**	
Lecture-16	What is a Function? Why Functins are useful?, Calling Functions	
Lecture-17	Working with Variable Functions	
Lecture-18	writing your own Functions	
Lecture-19	Working with References, Writing Recursive Functions	
Lecture-20	Objects - Introduction OOP Concepts	
Lecture-21	Creating Classes and Objects in PHP	
Lecture-22	Creating and using Properties, Working with methods	
Lecture-23	Object Overloading with _get(),_set() and _call()	
Lecture-24	Using Inheritance to Extend Power of Objects, Constructors and Destructos	
Lecture-25	Automatically Loading Class Files, Storing as Strings	
Lecture-26	Handling HTML Forms with PHP - How HTML form works	
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Lecture-28	Generating Web Foms with PHP	
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Lecture-30	Creating File Upload Forms, Redirecting After a Form Submission	

UNIT- III	WORKING WITH FILES AND DIRECTORIES	
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Lecture-32	Opening and closing Files	
Lecture-33	Reading and writing to files	
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Lecture-37	Introdusing DataBases and SQL,deciding how to store data	
Lecture-38	Understanding Relational DataBases	
Lecture-39	setting up MYSQL,Aquick play with MYSQL	
Lecture-40	Connecting MYSQL from PHP	
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Lecture-43	Manipulating MYSQL Data with PHP-Inserting	
Lecture-44	Manipulating MYSQL Data with PHP-Updating	
Lecture-45	Deleting Records	
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