Branch: BCA	**Semester-I**
Subject Code: 1101	**Lecture: 04** **Credit: 04**
Subject Title	**BUSINESS AND TECHNICAL COMMUNICATION SKILLS**

Modules	**Sr. No.**	**Topic and Details**	**No of Lectures Assigned**	**Marks Weightage %**
UNIT-I	1	**Basics of Communication:** Objectives and functions of Communication, Nature and scope of Communication in organizational setting, Formal and Informal Communication, Oral and Written Communication, Verbal and Non-verbal Communication Listening	8	36
	2	**Basics of English Language:** Importance of English in modern times, Parts of speech Tenses, Types of Sentences, Vocabulary building Paragraph building, Summarizing, Problems of Written Communication: Errors of spellings, grammar, punctuation, improper sentence construction, literal translation, faulty formatting etc. Problems of Oral Communication: Confused words, stress, accent, pitch, errors due to regionality etc	10	
UNIT-II	3	Oral Communication: Group discussion, Extempore speech, Mock interviews Reading aloud editorials of newspapers, articles etc. before an audience	10	30
	4	**Preparing a Presentation:** Factors to be considered before making a presentation (Who, Why, Where, When, How), Psychological Preparation, Preparing Written Material, Preparing Visual Aids , Making the Presentation, Factors affecting the Presentation, Speaking faults in presentations	5	
UNIT-III	5	***Letters- Format of letters*** Principles of Letter writing, Sales letters, Credit letters, Collection letters, Complaint Letters	7	14
UNIT-IV	6	Job Applications Resumes	4	8
	7	**Report writing:**	6	12
Total			50	100

Text & Reference Books:

1. Urmila Rai, S M Rai , "Business Communication", Himalaya Publishing House, 2004
2. Urmila Rai, "Business Communication", Himalaya Publishing House, 1989

3. C. S. Rayud,u , "Media and Communication Management ", Himalaya Publishing House, Bombay
4. Dr. Anjali Ghanekar , "Communication Skill for Effective Management" , Everest Publishing House
5. Aspi Doctor & Rhoda Doctor,"Business Communication",2008
6. Mulgaokar, "Business Communication", Manan Prakashan , 2011

Branch: BCA	**Semester-I**
Subject Code: 1102	**Lecture: 04** **Credit: 04**
Subject Title	**PRINCIPLES AND PRACTICE OF ACCOUNTING**

Modules	**Sr. No.**	**Topic and Details**	**No of Lectures Assigned**	**Marks Weightage %**
UNIT-I	1	**Introduction to Book – Keeping & Accountancy** Accounting Terminologies, Double Entry Book – keeping System, Types of Vouchers & Specimen of vouchers	6	12
UNIT-II	2	**Journal:** Meaning, Importance and Utility of Journal Specimen of Journal ; Writing of Journal Entries on the basis of vouchers	6	12
	3	**Ledger** Meaning, Need and Specimen of Ledger Posting of Entries from Journal to Ledger	6	12
UNIT-III	4	**Subsidiary Books** Meaning, Need and Types of Subsidiary Books Purchase Book, Sales Book, Purchase Return Book, Sales Return Book, Simple Cash Book with Only Cash Column, Cash Book with Cash and Discount Columns, Cash Book with Cash, Bank and Discount Columns and Analytical Petty Cash Book	13	26
	5	**Bank Reconciliation Statement** Meaning, Need and Importance , Preparation of Bank Reconciliation Statements	6	12
UNIT-IV	6	**Final Accounts of a Proprietary Concern** Preparation of Trading Account, Profit & Loss Account and Balance Sheet with Adjustments like: Closing Stock ;Outstanding Expenses, Prepaid Expenses ; Outstanding Income, Income received in Advance; Depreciation, Treatment of Reserve for Bad & Doubtful Debts, Goods Withdrawn for Personal Use Goods Distributed as Free Sample, Interest on Bank Loan & Investments	13	26
Total			50	100

Text Books:

1) Choudhari and Chopade, "Book-Keeping & Accountancy", Sheth Publications, 1998

References:

1) Kishnadwala, "Book-Keeping & Accountancy", Manisha Prakashan, 1983.
2) Ainapurna & Ainapurna, "Management Accountancy"

Branch: BCA	**Semester-I**
Subject Code: 1103	**Lecture: 04** **Credit: 04**
Subject Title	**INTRODUCTION TO PROGRAMMING AND PROBLEM SOLVING USING C**

Modules	**Sr. No.**	**Topic and Details**	**No of Lectures Assigned**	**Marks Weightage**
UNIT-I	1	Overview of programming languages; Definition of the program, Concept- Compilation, interpretation, source code, object code, execution, input and output, debugging etc.	6	24
	2	Expressions; control structures; subroutines, Storage management; scoping rules; bindings for names.	6	
UNIT-II	3	Introduction to problem solving : Concept: problem solving, Problem solving techniques (Trail & Error, Brain Stroming, Divide & Conquer).	5	24
	4	Steps in problem solving (Define Problem, Analyze Problem, Explore Solution) Algorithms and Flowcharts (Definitions, Symbols), Characteristics of an algorithm Conditionals in pseudo-code, Loops in pseudo code Simple Examples: Algorithms and flowcharts (Real Life Examples).	7	
UNIT-III	5	Introduction to 'C' Language History, Structures of 'C' Programming, Function as building blocks. Language Fundamentals : Character set, C Tokens, Keywords, Identifiers, Variables, Constant, Data Types, Comments.	4	22
	6	Operators Types of operators, Precedence and Associativity, Expression, Statement and types of statements Build in Operators and function Console based I/O and related built in I/O function: printf(), scanf(), getch(), getchar(), putchar(); Concept of header files, Preprocessor directives: #include, #define.Conditionals and Loops:	7	
UNIT-IV	7	Control structures: Decision making structures: If, If-	6	20

		else, Nested If-else, Switch; Loop Control structures: While, Dowhile, for, Nested for loop; Other statements: break, continue, goto, exit.		
	8	Storage types: Automatic, external, register and static variables	4	
	9	Userdefined types, array definition , 1-D, 2-D array. Functions:Defining and accessing, passing arguments, Function prototypes.	5	10
Total			50	100

Text and Reference Books:

1. Roosta Seyed, "Foundations of Programming Languages Design & Implementation", 3rd Edition, Cenage learning. ISBN-13:978-81-315-1062-9.
2. Sethi Ravi, "Programming Languages: Concepts and Constructs" Pearson Education, ISBN: 9788177584226
3. Sebesta R. W., "Concepts of programming languages", Pearson Education 2001, 4th edition.ISBN-81-317-0837-3
4. Venu Gopal,"Programming in C" ,Tata Mcgraw-Hill Publishing company Limited,1997
5. Complete reference with C Tata McGraw Hill
6. C – programming E.Balagurusamy Tata McGray Hill
7. How to solve it by Computer : Dromey, PHI
8. B.S Gottifries, "Schaum,s Outline of Theory and Problems of Programming with C", Tata McGraw Hill,1995.
9. Kerningham and Ritchie, "the C Programming Language", Prentice Hall,1991.
10. Ramkumar and Agrawal, "Programming in ANSI C", Tata McGraw Hill, 1996.
11. Y.P Kanetkar, "Let Us "C", Infinity Science Press,2008
12. An introduction to data structures with applications, Jean-Paul Trembly and Paul Sorenson, (2nd edition), 1884
13. Jignesh Shah, "Programming in /c" , Charotar Publisher, 2010

Branch: BCA	**Semester-I**
Subject Code: 1104	**Lecture: 04** **Credit: 04**
Subject Title	**COMPUTER FUNDAMENTALS AND OPERATING SYSTEMS**

Modules	**Sr. No.**	**Topic and Details**	**No of Lectures Assigned**	**Marks Weightage**
UNIT-I	1	**Introduction to computers:** What is Computer? Comparison between computer and human brain, Characteristics of Computer, Computer applications **History of Computers:** Initial development, Generation of Computer, Evolution of Personal Computers.	5	10

	2	**Computer Organisation:** Basic units of computer, Block diagram of Computer, Input Unit, Processing Unit, Output Unit, Storage Unit. **Types of Printers:** Hard Copy output, Impact Printers, Non-Impact Printers, Serial and Line Printers, Dot-Matrix Printers, Laser Printers, Daisy wheel printers, Drum and Chain Printers, Thermal Printers.	5	10
UNIT-II	3	**External storage devices :** SASD, DASD, Punch Cards, Magnetic Tapes, Blocking utilization factor, Magnetic Disk, Tracks, Sectors, Seek Time, Rotational latency, Access time, Numerical problems	5	10
	4	**Type of Computers :** Digital, Analog, Hybrid Computers, General purpose Computers, Turnkey Systems, Micro Computers, Mini Computers, Mainframes, Super Computers.	5	10
UNIT-III	5	Overview of operating systems, functionalities and charateristics of OS. Hardware concepts related to OS, CPU states, I/O channels Types of Os – (Explain concepts): Single processor systems, Uni-programmed, Multiprogrammed, Batch, Time sharing-Interactive, Multitasking, Multiprocessor systems, Parallel systems, Distributed systems, Special purpose systems, Real Time systems, Multimedia systems Handheld Systems	6	12
	6	The concept of a process, operations on processes, process states, concurrent processes, process control block, process context	6	12
UNIT-IV	7	Job and processor scheduling, scheduling algorithms, process hierarchies	5	10
	8	Problems of concurrent processes, critical sections, mutual exclusion, synchronisation, deadlock.	6	12
	9	Memory management strategies: Basic concepts, Swapping – concept Contiguous memory allocation • Memory mapping & Protection • Memory Allocation • Fragmentation Non-contiguous memory allocation • Paging Segmentation- Basic method Virtual Memory – concept	7	14
Total			50	100

Text and Reference Books:

1. P.K.Sinha, "Computer Fundamentals" ,BPB Publications,March1990
2. Silberschatz, Galvin,"Operating System Principles" John Wiley & Sons, 2006
3. Andrew Tanenbaum, Modern Operating Systems, Prentice Hall.
4. William Stallings, Operasting Systems, Prentice Hall.
5. Harvey M. Deitel, An introduction to operating systems. Addison-Wesley.
6. Andrew Tanenbaum & Albert Woodhull, Operating Systems: Design and Implementation. Prentice-Hall.
7. Douglas Comer, Operating System Design - The XINU Approach. Prentice-Hall

Branch: BCA	**Semester-I**
Subject Code: 1201	**Practical: 02** **Credit: 02**
Subject Title	**PROBLEM SOLVING USING C LAB**

Modules	**Sr. No.**	**Topic and Details**	**No of Lectures/Practicals Assigned**	**Marks Weightage %**
UNIT-I	1	Control Statement: Selection Statements, if , Nested if, The if-else-if, etc. The Conditional, Expression, Selection switch, Nested switch, Iteration Statements- The for loop, . The while loop, The do-while loop, Jump Statements- The goto & label ,The break & continue, The exit() function	5	10
UNIT-II	2	Implementations of Operators : Arithmetic, Logical, bitwise, Precedence and Associativity, composite statements. Unary, binary and ternary operators.	5	10
	3	.Build in Operators and function Console based I/O and related built in I/O function: printf(), scanf(), getch(), getchar(), putchar();	4	8
UNIT-III	4	Concept of header files, Preprocessor directives: #include, #define. And macros implementations	2	4
	5	Implementation of Storage types: Automatic, external, register and static variables	2	4
UNIT-IV	6	Implementation of Functions: Defining and accessing, passing arguments, Function prototypes., function calling mechanism.	4	8
	7	Implementation of 1-D and multi dimension Array	3	6
Total			25	50

Branch: BCA	**Semester-I**
Subject Code: 1202	**Practical: 02** **Credit: 02**
Subject Title	**GNU /Linux LAB**

Modules	**Sr. No.**	**Topic and Details**	**No of Lectures/Practicals Assigned**	**Marks Weightage %**
UNIT-I	1	Getting started –Commands	3	6
	2	The Unix Architecture and command usage – Commands ,General-purpose utilities	2	4
UNIT-I	3	The File system –Commands	2	4
	4	Handling ordinary files, Basic file attributes	2	4
UNIT-III	5	The vi Editor	5	10
	6	Simple Filters, Filters using regular expressions - use of grep command	3	6
UNIT-IV	7	Introduction to shell concept and writing shell script	5	10
	8	Essential Shell Programming	3	6
Total			25	50

Text and reference Books:

1. The Linux Kernel Book Rem Card,Eric Dumas and Frank Mevel Wiley Publications sons, 2003
2. Unix Concepts and Applications by Sumitabha Das, Fourth Edition, TMH
3. MySQL Bible Steve Suchring John Wiley sons, 2002
4. Programming PHP Rasmus Lerdorf and Levin Tatroe O'Reilly Publications, 2002
5. Terry Collings, Kurt Wall, "Red Hat Linux Network and System Administration" 3rd edition Wiley.
6. Neil Mathews, "Beginning Linux Programming" 4th edition, Wrox Press.
7. P.Koparkar, "Unix For You, Tata McGraw-Hill
8. Y.P.Kanetkar,"Unix Shell programming", BPB publications
9. Batch, "Design of Unix Operating System"

Branch: BCA	**Semester-II**
Subject Code: 2101	**Lecture: 04** **Credit: 04**
Subject Title	**INTRODUCTION TO LOGIC CIRCUITS AND DIGITAL DESIGN**

Modules	Sr. No.	Topic and Details	No of Lectures Assigned	Marks Weightage %
UNIT-I	1	**Digital Logic Circuits:** Introduction to digital signals, Logic Gates Universal gates, Implementation of Universal gates using basic gates, Conversion of Universal gates into Basic Gates, Exclusive gates Truth Table, De-Morgan's Theorm : Statement and Proof.	8	16
UNIT-II	2	**Boolean Algebra:** Boolean Laws, Simplification of Boolean expression using Laws, Min terms (SOP) Max terms (POS), Standard/Canonical SOP and POS forms, K-map(2,3 and 4 variables) Don't care conditions.	8	12
	3	**Truth tables:** Simplification of Boolean expression using Truth Tables	4	8
UNIT-III	4	**Combinational Circuits:** What is a combinational circuit - Half Adder, Full Adder, Half Subtracter, Full Subtractor, Multiplexers (MUX) (using Basic gates) (2:1 , 4:1, 8:1) - Designing of Higher Mux using Lower Mux a. 4:1 using 2:1 b. 8:1 using 4:1 c. 16:1 using 8:1 d. 16:1 using 4:1 only Implementation of Mux in Boolean Algebra De-Multiplexer (De-MUX) (using Nand gates) a. 1:2 b. 1:4 c. 1:8 Designing of Higher demux using lower demux a. 1:4 using 1:2 b. 1:8 using 1:4 c. 1:16 using 1:8 d. 1:16 using 1:4 only	14	28
UNIT-IV	5	**Flip flops, Counters and Registers:** **Flip flops,**What is Sequential circuits, S R flip flop (NAND and NOR),Clocked SR flip flop D flip flop, J K flip flop, T flip flop **Counters,** Types of Counters, Design of 4 bit Asynchronous counter, Design of 4 bit synchronous counter, Design of Modulus counters	12	24
	6	**Computer Arithmetic:** Number systems and character codes, Integer representation, Integer arithmetic, Floating point representation, Floating point arithmetic.	4	8
Total			50	100

Text & Reference Books:

1. R P Jain,"Modern Digital Electronics" , Tata McGraw-Hill Education, 2003
2. N.G. Palan,"Logic Circuit" Technova Publication,1998

Branch: BCA	**Semester-II**
Subject Code: 2102	**Lecture: 04** **Credit: 04**
Subject Title	**DISCRETE STRUCTURES AND GRAPH THEORY**

Modules	**Sr. No.**	**Topic and Details**	**No of Lectures Assigned**	**Marks Weightage**
UNIT-I	1	**Set Theory:** Definitions: Sets, Subsets, Types of sets, Power set, Complement of a set, Operations on sets, set builder form , listing form ,set cardinality and examples, Venn Diagram & examples, Fundamental laws of sets and examples .	8	16
UNIT-II	2	**Relations:** Definitions, i. Relation, ii. Reflexive Relation, iii. Symmetric Relation, iv. Transitive Relation, v. Antisymmetric Relation, vi. Equivalance Relation, vii. Equivalance classes. Theorems and problems Recurrence relation: Definitions and problems	8	16
	3	**Functions:** Define i. Function ii. Injective functions iii. Surjective functions iv. Bijective functions v. Composite function vi. Inverse of a function. vii. Domain viii. Range Theorems	8	16
UNIT-III	4	**Permutations and Combinations :** Definitions: Permutation, Combination and problems	6	12
UNIT-IV	5	**Binomial theorem and Mathematics Induction:** Binomial Theorem : Statement and problems Mathematical Induction: 1st and 2nd principles and problems	4	8
	6	**Properties of integers:** Definition of gcd, lcm, Theorems Euclidean algorithm and problems	4	8
	7	**Graph theory:** Graphs, types of graphs, Handshaking Lemma, Isomorphism of graphs, Subgraphs, Complement of graph.	12	24
Total			50	100

Text & Reference Books:

1. Kolman,Busby and Ross, "Discrete mathematical Structures and graph theory"
2. Alan Doerr, K. Levasseur , "Applied discrete structure for computer science", Galgotia publications, 1988
3. Trembley & Manohar, "discrete mathematics structure with application to computer science", McGraw Hill, 1987.
4. S. Lipschutz; "Schaums outline series", McGraw Hill, 1974, Vector analysis
5. M. Spicgel, "Schaums series of essential computer mathematics", McGraw Hill, 1974

Branch: BCA	**Semester-II**
Subject Code: 2103	**Lecture: 04** **Credit: 04**
Subject Title	**ADVANCED C**

Modules	**Sr. No.**	**Topic and Details**	**No of Lectures Assigned**	**Marks Weight age**
UNIT-I	1	**Arrays:** What are Arrays, Array initialization, Passing arrays to a function, Two Dimensional Array, Passing array as arguments to the functions.	8	16
	2	**Pointers:** An Introduction to Pointer, Pointer Declaration and Initialization of Pointer variables, Call by value and Call by Reference, Pointers with Arrays, Pointers and Character Strings	10	20
	3	Dynamic Memory Allocation: Introduction, Allocating Block of Memory, Introduction to the following functions Calloc(), Malloc(), Free(), Realloc	6	12
	4	**Structure and Union:** Introduction to Structure, Defining and Declaring Structure Variables, .Dot Operator, Nested Structure, Array of Structure, Introduction to Union Difference between Structure and Union	6	12
	5	**File Handling:** Why we need a file, File operations(create,open,read, move , write, close), File opening Mode, Closing a file, Input/output operations, Creating and reading a file	6	12
	6	**Graphics :** Introductions to Graphics, Applications of C.G I/O device for, Graphics (mouse, printer, joystick, CRT), Raster and Vector Scan Display.	8	16
	7	**Creating** Circle, Rectangle, and different geometric shapes with existing predefined functions, filling algorithms, drawing and simple graphics creations with line.	6	12
		Total	50	100

Text Books:

1. Y.P Kanetkar, "Let Us "C", Infinity Science Press, 2008
2. B.S Gottifries, "Schaum,s Outline of Theory and Problems of Programming with C", Tata McGraw Hill,1995.
3. Kerningham and Ritchie, "the C Programming Language", Prentice Hall,1991.
4. Ramkumar and agrawal, "Programming in ANSI C", Tata McGraw Hill, 1996.
5. Jignesh Shah,"Programming in /c", Charotar Publisher, 2010
6. Venu Gopal," Programming in C", Tata Mcgraw-Hill Publishing company Limited,1997
7. E- BalaguruSwamy,"Ansi 'C" , Tata McGraw Hill.
8. A.P Godse,"Introduction to Computer Graphics" , Technical Publications, 2009

Branch: BCA	**Semester-II**
Subject Code: 2104	**Lecture: 04** **Credit: 04**
Subject Title	**ENVIRONMENTAL SCIENCE & RTI**

Modules	**Sr. No.**	**Topic and Details**	**No of Lectures Assigned**	**Marks Weightage**
UNIT-I	1	The Multidisciplinary nature of environmental studies, Definition, scope and importance, Need for public awareness	5	10
	2	**Natural Resources:** Renewable and non-renewable resources, Natural resources & role of natural resources with reference to Forests, water, Mineral, Food, Land, Energy, Role of an individual in conservation of these resources	6	12
UNIT-II	3	Ecosystems: Concept of an ecosystem, Structure and functions of an ecosystem, Types, characteristic features, structure and function of following ecosystems : forest, grassland, desert and aquatic	8	16
	4	**Environmental Pollution** – Definition, Causes, effects and control measures with reference to Air Pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear Hazards, Solid waste management: Causes, effect and control measures of urban and industrial wastes: • Role of an individual in prevention of pollution • Pollution case studies related to field of computers Disaster management: floods, earthquake, cyclone and landslides.	12	24
UNIT-III	5	**Disposal of e-waste**	4	8
	6	**Introduction to Green IT:** Concepts of green IT, design, management and education., Approaches of green IT such as virtualization, power management, material recycling, telecommunication, electronic disposals, etc. , Benefits of green IT	7	14
UNIT-IV	7	**Right of Information Act:** Introduction, Right to information and obligations of public authorities, central information commission, state information commission and their duties, powers and functions of information commissions, appeals and penalties, Miscellaneous	8	16

Text Books:

1. AnubhaKaushik, "Environmental Studies", New Age International (P) Ltd., 2007

Branch: BCA	**Semester-II**
Subject Code: 2201	**Practical: 02** **Credit: 02**
Subject Title	**ADVANCED C LAB**

Modules	**Sr. No.**	**Topic and Details**	**No of Lectures/Practicals Assigned**	**Marks Weightage %**
UNIT-I	1	Programs with Arrays • Array initialization • Passing arrays to a function Two Dimensional Array	5	10
	2	Programs Using Pointers • Pointer Declaration and Initialization of Pointer variables • Call by value and Call by Reference • Pointers with Arrays Pointers and Character Strings	5	10
UNIT-II	3	Programs with Dynamic Memory Allocation Programs with following functions-Calloc(), Malloc(), Free(), Realloc	4	8
	4	Programs Using Structure and Union Defining and Declaring Structure Variables,.Dot Operator, Nested Structure, Array of Structure, Examples of Union.	2	4
UNIT-III	5	Programs using I/O Operations File Handling • File operations(create, open, read, move, write, close) • Program To Create A file • Program to Open a file • Program to Close A file Input/output operations on file Character by – fgetc,fputc), Reading and writing files	5	10
UNIT-IV	6	Program with Computer Graphics: • Drawing Shapes using different functions (line, Rectngle,Circle,ellipse,Arc) • Filling shapes with fillcolor options Use of setcolor(), sleep() and delay() functions	4	8
Total			25	50

Text and Reference Books:

1. Y.P Kanetkar, "Let Us "C", Infinity Science Press, 2008
2. B.S Gottifries, "Schaum,s Outline of Theory and Problems of Programming with C", Tata McGraw Hill,1995.

3. Kerningham and Ritchie, "the C Programming Language", Prentice Hall,1991.
4. Ramkumar and agrawal, "Programming in ANSI C", Tata McGraw Hill, 1996.
5. Jignesh Shah,"Programming in /c", Charotar Publisher, 2010
6. Venu Gopal,"Programming in C", Tata Mcgraw-Hill Publishing company Limited,1997
7. E- BalaguruSwamy,"Ansi 'C"
8. A.P Godse,"Introduction to Computer Graphics" , Technical Publications, 01-Jan-2009

Branch: BCA	**Semester-II**
Subject Code: 2202	**Practical: 02** **Credit: 02**
Subject Title	**OPEN SOURCE OPERATING SYSTEM AND APPLICATIONS SOFTWARE'S LAB***

Modules	**Sr. No.**	**Topic and Details**	**No of Lectures/Practicals Assigned**	**Marks Weightage 5**
UNIT-I	1	**INSTALLING RED HAT LINUX:** Configuring a Dual Boot System , Allocating Disk Space for Linux, Add a new Hard Drive , Use an Existing Partition to Create Space for Loading Linux Using fdisk to Partition a Hard Disk Viewing, The Current Partitions, Deleting Partitions, Creating New Partitions	3	6
	2	THE APACHE INSTALLATION PROCESS, APACHE CONFIGURATION, MANIPULATING THE APACHE httped SERVICE	3	6
UNIT-II	3	INSTALLING PHP Quick Install Of PHP, Starting the Install Process to Begin PHP Configuration , To complete Installation of PHP , Binding the PHP Installation with Apache , Registering the Changes made in the httpd.conf With Apache	3	6
UNIT-III	4	INSTALLING MySQL: Using the Add/Remove Applications Tool , Using the Linux Command Line, Installing the My SQL RPMS, What to do if the Error Cannot Be Handled Easily, The Directory Tree Created during Installation, MySQL DATABASE ENGINE INSTALL, MySQL Database administration	3	6
	5	STARTING AND STOPPING MySQL Shutting down MySQL, Starting MySQL , Setting up, Setting the root Password using the	3	6

		Mysqladmin, Utility to set the root Password , Logging into MySQL after setting the root Password , Directly Updating User Information to set a root Password , Issues with updating the User Table using SQL , Creating a MySQL Super User , User Privileges		
UNIT-IV	6	CREATING DATABASE Database Ownership, Permitting a User access to the Inventory Database, The Resources of the Inventory Database , Adding New Users to MySQL , Manipulating the MySQL , Grant Tables Directly Deleting Users from MySQL , Creating Passwords for Users	4	8
	7	TESTING PHP AND MySQL SET UP Understanding the syntax of PHP , How are PHP programs created?, Understanding the physical structure of a PHP Program, String Functions Statements, Operators, Looping, PHP functions PHP Forms	6	12
Total			25	50