



SCHEME FOR FIFTH SEMESTER (COMPUTER ENGINEERING)

Sr. No.	Subject	Study Scheme			EVALUATION SCHEME						Total Marks
					INTERNAL ASSESSMENT		EXTERNAL ASSESMENT (EXAMINATION)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs.	Max. Marks	Hrs.	
	Industrial Training	-	-	-	-	50	-	-	50	3	100
5.1	Computer Networks	4	-	2	25	25	100	3	50	3	200
5.2	Software Engineering	3	-	-	25	-	100	3	-	-	125
5.3*	Employability Skills – I	-	-	2	-	25	-	-	50	3	75
5.4*	Environmental Education	3	-	-	25	-	100	3	-	-	125
5.5	RDBMS	3	-	6	25	25	100	3	50	3	200
5.6**	Visual Basic	3	-	6	25	25	100	3	50	3	200
5.7	Troubleshooting of Computer System	-	-	3	-	50	-	-	50	3	100
	# Student Centred Activities	-	-	5	-	25	-	-	-	-	25
	Total	16	-	24	125	225	500	-	300	-	1150

* Common with other diploma programmes

** Choose any one out of the following

5.6.1 Visual Basic

5.6.2 P.H.P

+ Common with diploma programme in Electronics and Communication Engg.

Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.



SYLLABUS: Polytechnic (CSE)

Department: Computer Science & Engineering – 5th Semester

Subject: Computer Networks (Theory)

Subject Code: 120851

Detailed Contents

Unit No.1 Networks Basics

- Topic No.1: Concept of network
- Topic No.2: Models of network computing
- Topic No.3: Peer-to –Peer Network
- Topic No.4: Server Client Network
- Topic No.5: Network Services
- Topic No.6: Concept of switching
- Topic No.7: Switching Techniques

Unit No.2 OSI Model

- Topic No.8: OSI Reference Model
- Topic No.9: Function of various layers in OSI Reference Model

Unit No.3 Introduction to TCP/IP

- Topic No.10: Concept of physical and logical addressing
- Topic No.11: IPv4 addressers Address space, Notations
- Topic No.12: Classful Addressing, Classless Addressing, Network Address Translation
- Topic No.13: Different classes of IP addressing, special IP address
- Topic No.14: Sub netting and super netting
- Topic No.15: Loop back concept
- Topic No.16: IPv4 and IPv6 packet Format

Unit No.4 Network Architecture

- Topic No.17: Ethernet Specification and Standardization:

Unit No. 5 Connectivity Devices

- Topic No.18: Network connectivity Devices – NICs, Hubs, bridges, Repeaters, switches
- Topic No.19: Multiplexers, Modems, Routers, Gateways

Unit No. 6 Network Trouble Shooting Techniques

- Topic No.20: Trouble shooting process
- Topic No.21: Trouble Shooting Tools: PING, IPCONFIG, IFCONFIG, NETSTAT

Unit No. 7 IEEE 802.11

- Topic No.22: IEEE 802.11 Architecture, Bluetooth Architecture

STUDY SCHEME	EVALUATION SCHEME								Total Marks
	Internal Assessment				External Assessment (Examination)				
	Hrs/week			Theory	Practical	Written Paper		Practical	
L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
3		-	25	-	100	3	-	-	125

TEXT BOOKS:

1. Computer Networks by Tanenbaum, Prentice Hall of India, New Delhi
2. Data Communications and Networking by Forouzan, (Edition 2nd and 4th), Tata McGraw Hill Education Pvt Ltd, New Delhi

REFERENCE BOOKS:

1. Data and Computer Communication by William Stallings, Pearson Education, New Delhi
2. Networking Essentials – BPB Publications New Delhi
3. Computer Network and Communications By V.K. Jain and Narija Bajaj, Cyber Tech Publications, New Delhi.

INSTRUCTIONAL STRATEGY

This subject deals with both theory and practicals. The students should be made to practically establish LAN with various hardware and software and their integration.



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SUGGESTED DISTRIBUTION OF MARKS

Topic No.	Time Allotted (hrs)	Marks Allotted (%)
1	6	10
2	12	20
3	12	20
4	12	20
6	8	12
7	8	12
8	6	8
Total	48	100





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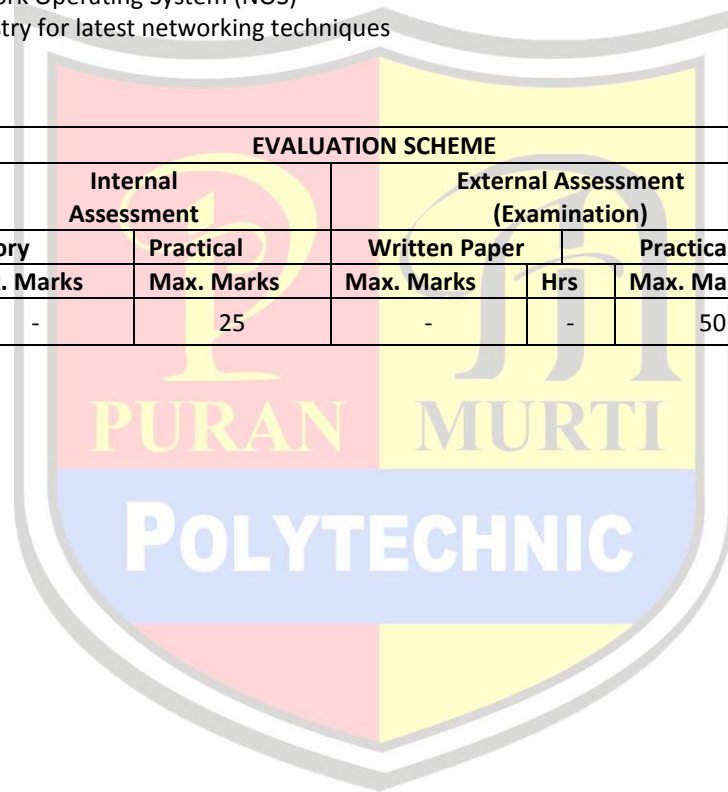
Subject: Computer Networks (Practical)

Subject Code: 120851(P)

LIST OF PRACTICALS

1. Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network.
2. Recognition and use of various types of connectors RJ-45, RJ-11, BNC and SCST
3. Recognition of network devices (Switches, Hub, Routers of access points for Wi-Fi)
4. Making of cross cable and straight cable
5. Install and configure a network interface card in a workstation.
6. Identify the IP address of a workstation and the class of the address and configure the IP Address on a workstation
7. Managing user accounts in windows and LINUX
8. Study and Demonstration of sub netting of IP address
9. Use of Net stat and its options.
10. Connectivity troubleshooting using PING, IPCONFIG, IFCONFIG
11. Installation of Network Operating System (NOS)
12. Visit to nearby industry for latest networking techniques

STUDY SCHEME			EVALUATION SCHEME						Total Marks	
			Internal Assessment		External Assessment (Examination)					
Hrs/week			Theory	Practical	Written Paper		Practical			
L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs		
-	-	2	-	25	-	-	50	3	75	





Detailed Contents

Unit No.1 Introduction to Software Engineering

- Topic No.1: Introduction
- Topic No.2: Programmers v/s Software Products
- Topic No.3: Emergence of Software Engineering: High-Level Language Programming, Control flow based Design, Data Structure Oriented Design, Object Oriented Design

Unit No.2 Software Life Cycle Model

- Topic No.4: Requirement of Life Cycle Model
- Topic No.5: Classical Waterfall Model
- Topic No.6: Prototyping Model

Unit No.2 Software Life Cycle Model

- Topic No.7: Evolutionary Model
- Topic No.8: Spiral Model
- Topic No.9: Comparison of different Life Cycle Models

Unit No.3 Software Planning

- Topic No.10: Responsibilities of Software Project Manager
- Topic No.11: Metrics for Project Size Estimation: LOC (lines of code), Function Point Metrics
- Topic No.12: Project estimation Technique: using COCOMO Model, Halstead's Software Science

Unit No.4 Requirement Analysis and Specification

- Topic No.13: Requirement gathering and Analysis
- Topic No.14: Software Requirement Specification
- Topic No.15: Formal Specification Technique
- Topic No.16: characteristics of good SRS

Unit No.5 Software Design and Implementation

- Topic No.17: Characteristics and features of good Software Design
- Topic No.18: Cohesive and Coupling
- Topic No.19: Software Design and approaches: Function Oriented Design, Object Oriented Design, structured Coding Techniques

Unit No.5 Software Design and Implementation

- Topic No.19.4: Coding Styles
- Topic No.19.5: Documentation

Unit No.6 Software Testing

- Topic No.20: Concept of Testing
- Topic No.21: Verification v/s Validation
- Topic No.22: Unit Testing
- Topic No.23: Black Box Testing
- Topic No.24: White Box Testing
- Topic No.25: Integration Testing
- Topic No.26: System Testing

Unit No.7 Software Quality and Maintenance

- Topic No.27: Introduction to capability Maturity Model
- Topic No.28: ISO9000 and Six Sigma
- Topic No.29: Configuration Management

STUDY SCHEME			EVALUATION SCHEME						Total Marks
			Internal Assessment		External Assessment (Examination)				
Hrs/week			Theory	Practical	Written Paper		Practical		
L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
5	-	-	25	-	100	3	-	-	125



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TEXT BOOKS:

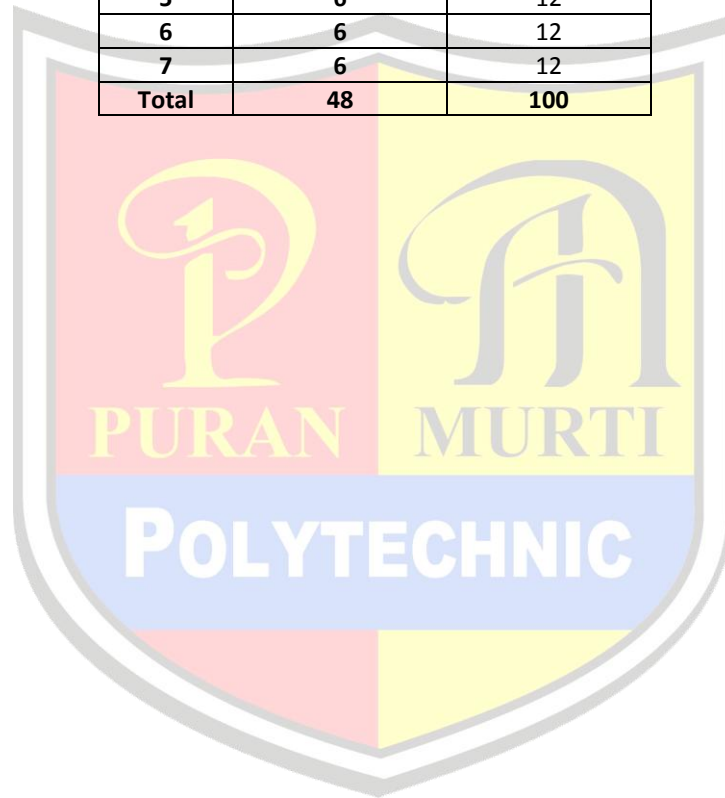
1. Software Engineering by Rajib Mall, PHI Publishers, New Delhi

REFERENCE BOOKS:

1. Software Engineering, Sangeeta Sabharwal, New Age International, Delhi
2. Software Engineering by KK Aggarwal and Yogesh Singh

SUGGESTED DISTRIBUTION OF MARKS

Topic No.	Time Allotted (hrs)	Marks Allotted (%)
1	6	12
2	8	20
3	10	20
4	6	12
5	6	12
6	6	12
7	6	12
Total	48	100





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Subject: Environmental Education (Theory)

Subject Code: 120151

Detailed Contents

Unit No.1 Environmental Education

- Topic No.1: Definition
- Topic No.2: Scope and Importance of Environmental Education

Unit No.2 Eco system

- Topic No.3: Basics of ecology
- Topic No.4: Biodiversity
- Topic No.5: Eco system
- Topic No.6: Sustainable development

Unit No.3 Sources of pollution

- Topic No.7: Causes, effects and control measures of air and water pollution
- Topic No.8: Causes, effects and control measures of noise and soil pollution
- Topic No.9: Causes, effects and control measures of noise and soil pollution
- Topic No.10: Units of measurement

Unit No.4 Solid waste management

- Topic No.11: Causes of urban and industrial waste
- Topic No.12: Effects of urban and industrial waste
- Topic No.13: Control measures of urban and industrial waste

Unit No.5 Mining and deforestation

- Topic No.14: Causes
- Topic No.15: Effects
- Topic No.16: Control measures

Unit No.6 Environmental Legislation

- Topic No.17: Water (prevention and control of pollution) Act 1974
- Topic No.18: Air (Prevention and Control of Pollution) Act 1981
- Topic No.19: Environmental Protection Act 1986
- Topic No.20: Role and Function of State Pollution Control Board
- Topic No.21: Environmental Impact Assessment (EIA)

Unit No.7 Non-conventional Energy Resources

- Topic No.22: Solar Energy
- Topic No.23: Wind Energy
- Topic No.24: Bio Energy
- Topic No.25: Hydro Energy

Unit No.8 Current Issues in Environmental Pollution

- Topic No.26: Global Warming
- Topic No.27: Green House Effect
- Topic No.28: Depletion of Ozone Layer
- Topic No.29: Recycling of Material
- Topic No.30: Environmental Ethics
- Topic No.31: Rain Water Harvesting
- Topic No.32: Maintenance of Groundwater
- Topic No.33: Acid Rain
- Topic No.34: Carbon Credits



STUDY SCHEME			EVALUATION SCHEME						Total Marks
			Internal Assessment		External Assessment (Examination)				
Hrs/week			Theory	Practical	Written Paper		Practical		
L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
3	-	-	25	-	100	3	-	-	125



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TEXT BOOKS:

1. Environmental Engineering and Management by Suresh K Dhameja; SK Kataria and Sons New Delhi.
2. Environmental Science by Dr. Suresh K Dhameja; SK Kataria and Sons, New Delhi. Computer System

REFERENCE BOOKS:

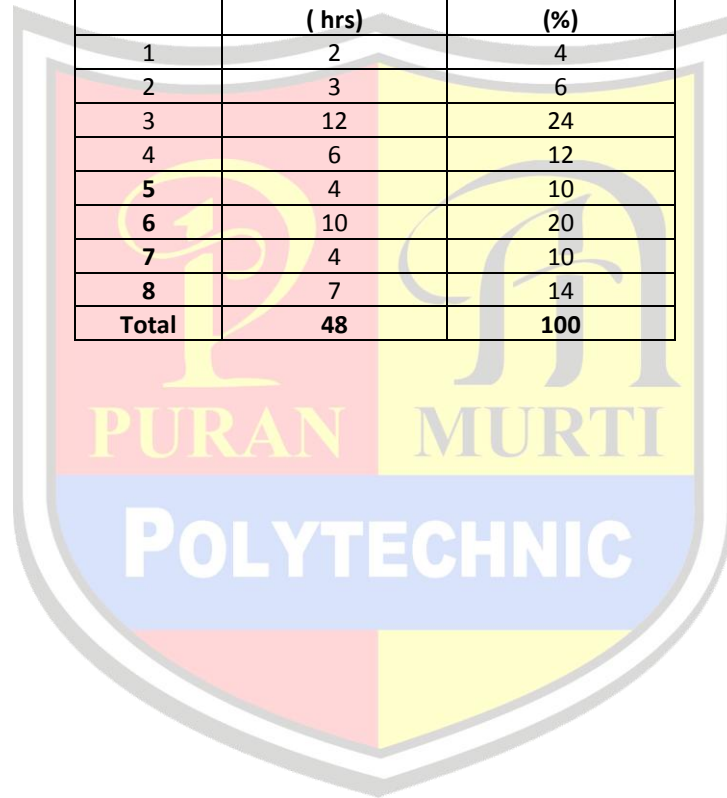
1. Environmental and Pollution Awareness by Sharma BR; Satya Prakashan, New Delhi.
2. Environmental Protection Law and Policy in India by Thakur Kailash; Deep and Deep Publications, New Delhi.
3. Environmental Science by Deswal and Deswal; Dhanpat Rai and Co. (P) Ltd. Delhi.
4. Engineering Chemistry by Jain and Jain; Dhanpat Rai and Co. (P) Ltd. Delhi.

INSTRUCTIONAL STRATEGY

The contents will be covered through lecture cum discussion sessions. In addition, in order to have more appreciation of need for protection of environment, it is suggested that different activities pertaining to Environmental Education like video films, seminars, environmental awareness camps and expert lectures may also be organized.

SUGGESTED DISTRIBUTION OF MARKS

Topic No.	Time Allotted (hrs)	Marks Allotted (%)
1	2	4
2	3	6
3	12	24
4	6	12
5	4	10
6	10	20
7	4	10
8	7	14
Total	48	100





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Subject: RDBMS (Theory)

Subject Code: 120853

Detailed Contents

Unit No.1 Relational Model

- Topic No.1: Relational Model Concept: Domain
- Topic No.2: Attributes
- Topic No.3: Tuples and Relations
- Topic No.4: Relational constraints and relational database schemes
- Topic No.5: Domain constraints
- Topic No.6: Key constraints and constraints on Null
- Topic No.7: Relational database and relational database schemes
- Topic No.8: Entity integrity
- Topic No.9: Referential integrity and foreign Key

Unit No.2 Functional dependencies and Normalization

- Topic No.10: Concept of Normalization
- Topic No.11: Need of Normalization
- Topic No.12: Non-loss decomposition and functional dependencies
- Topic No.13: Trivial and Non-Trivial dependencies
- Topic No.14: Closure of a set of dependencies and attributes
- Topic No.15: Normalization:
- Topic No.15.1: First, second & third Forms
- Topic No. 15.2: Boyce/Codd normal form Multi Valued dependency

Unit No.3 Relational Calculus and Algebra

- Topic No.16: Operation
- Topic No.17: Tuple Calculus
- Topic No.18: Domain Calculus
- Topic No.19: Example of Query language based on tuple and domain

Unit No.4 SQL Components and Data Definition Language

- Topic No.20: SQL's basic Concept
- Topic No.21: Data Type
- Topic No.22: Aggregate functions
- Topic No.23: Scalar Functions
- Topic No.24: Null Values
- Topic No.25: Creating database objects
- Topic No.26: Modifying database objects
- Topic No.27: Removing database Objects

Unit No.5 Queries and Data Manipulation Language

- Topic No.28: Insert statement
- Topic No.29: Update Statement
- Topic No.30: Delete Statement
- Topic No.31: Select statement
- Topic No.32: Queries and sub-queries
- Topic No.33: Different clauses of select statement
- Topic No.34: Join Statement
- Topic No.35: Correlated sub-queries
- Topic No.36: Derived tables

Unit No.6 Stored procedure and User defined functions

- Topic No.37: Procedural Extensions
- Topic No.38: IF Statement
- Topic No.39: WHILE statement
- Topic No.40: Local Variables
- Topic No.41: Try and Catch statements
- Topic No.42: Stored pr cedures
- Topic No.43: User defined functions



Topic No.44: System catalog

Unit No.7 Indexes, View and Security

Topic No.45: Guidelines for creating and using indexes

Topic No.46: Creating and Using Views

Topic No.47: Advantages and disadvantages of Views

Topic No.48: Security system of database engine

Topic No.49: Database security

Topic No.50: Roles

Topic No.51: Authorization: Grant

Topic No.51.1: Grant

Topic No.51.2: Deny

Topic No.51.3: Revoke Statements

Unit No.8 Triggers

Topic No.52: Introduction to triggers

Topic No.53: creating and using triggers

Topic No.54: Database level triggers

Topic No.55: Server level triggers.

STUDY SCHEME			EVALUATION SCHEME						Total Marks
			Internal Assessment		External Assessment (Examination)				
Hrs/week			Theory	Practical	Written Paper		Practical		
L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
3		-	25	-	100	3	-	-	125

TEXT BOOKS:

1. Data Base Management System By Ivan Byross

REFERENCE BOOKS:

1. Fundamentals of Database Systems by Ramez Elmasri, Shamkant Navathe; Pearson Education.
2. A Database System Concepts by Abraham Silberschatz, Henry F. Korth, S. Sudarshan; Tata McGraw Hill.

SUGGESTED DISTRIBUTION OF MARKS

Topic No.	Time Allotted (hrs)	Marks Allotted (%)
1	8	18
2	8	18
3	4	8
4	6	12
5	6	12
6	6	12
7	6	12
8	4	8
Total	48	100



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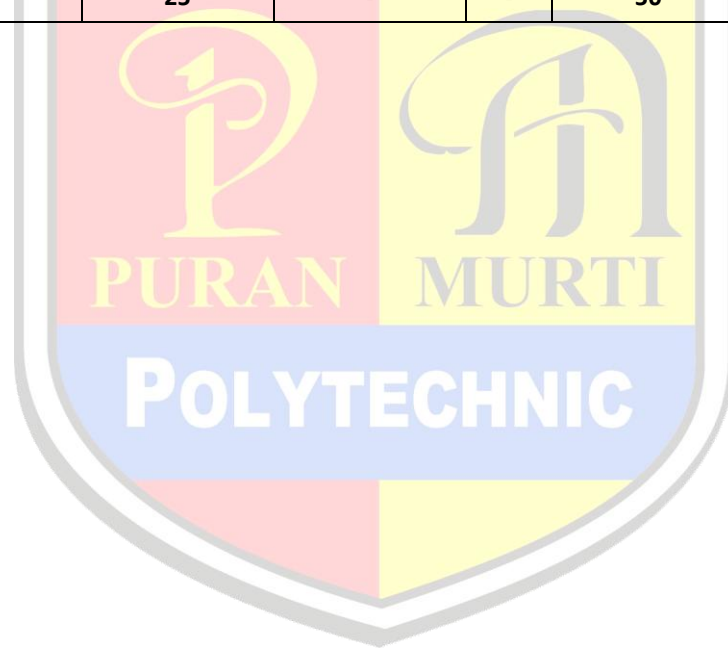
Subject: RDBMS (Practical)

Subject Code: 120853(P)

LIST OF PRACTICALS

1. Installing and Uninstalling SQL Server.
2. Creating, modifying and removing database objects.
3. Working with queries involving joins, correlation, sub-queries, set operators.
4. Creating and using stored procedures and user defined functions.
5. Creating indexes.
6. Creating and using views.
7. Using and understanding grant, revoke and deny statements.
8. Creating and using database triggers

STUDY SCHEME			EVALUATION SCHEME						Total Marks
			Internal Assessment		External Assessment (Examination)				
Hrs/week			Theory	Practical	Written Paper		Practical		
L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks		Hrs
-		2	-	25	-	-	50	3	75





Detailed Contents

Unit No.1 Introduction to Visual Basic

- Topic No.1: Features of VB
- Topic No.2: Characteristics of VB
- Topic No.3: Concept of IDE
- Topic No.4: Advantages and disadvantage of VB
- Topic No.5: Applications of VB

Unit No.2 VB Structure

- Topic No.6: Code Window and Statements in VB
- Topic No.7: Variables and scope of a variable
- Topic No.8: Data Types
- Topic No.9: Arrays
- Topic No.10: Constructors and Functions
- Topic No.11: Control Flow Statements

Unit No.3 Designing the User Interface

- Topic No.12: Design Aspects of VB Forms
- Topic No.13: Elements of user interface
- Topic No.14: Properties of controls- Text Box, Label, Command Button
- Topic No.15: Check Box, List Box, Picture and Image Control
- Topic No.16: Combo box, Option and Check Box

Unit No.4 Menus and Common Dialogue Control

- Topic No.17: Creating menus at design time using menu design window
- Topic No.18: Control menus
- Topic No.20: Common dialogue control

Unit No. 5 Display Date, Time, String Type conversion and Printing Information

- Topic No.21: Statements, Operators
- Topic No.22: Strings and String Function, Date & Time
- Topic No.23: Printing Reports
- Topic No.24: Data Projects

Unit No. 6 Database Programming

- Topic No.25: Database, Database Manager
- Topic No.26; Creating Database using Data Manager
- Topic No.27: Data Control, Activex Data Object

Unit No. 7 Activex Control

- Topic No.28: Types of Activex Control
- Topic No.29: Windows Common Control

STUDY SCHEME			EVALUATION SCHEME						Total Marks
			Internal Assessment		External Assessment (Examination)				
Hrs/week			Theory	Practical	Written Paper		Practical		
L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
3		-	25	-	100	3	-	-	125



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TEXT BOOKS:-

1. Microsoft VB Manual by MS Press

REFERENCE BOOKS:-

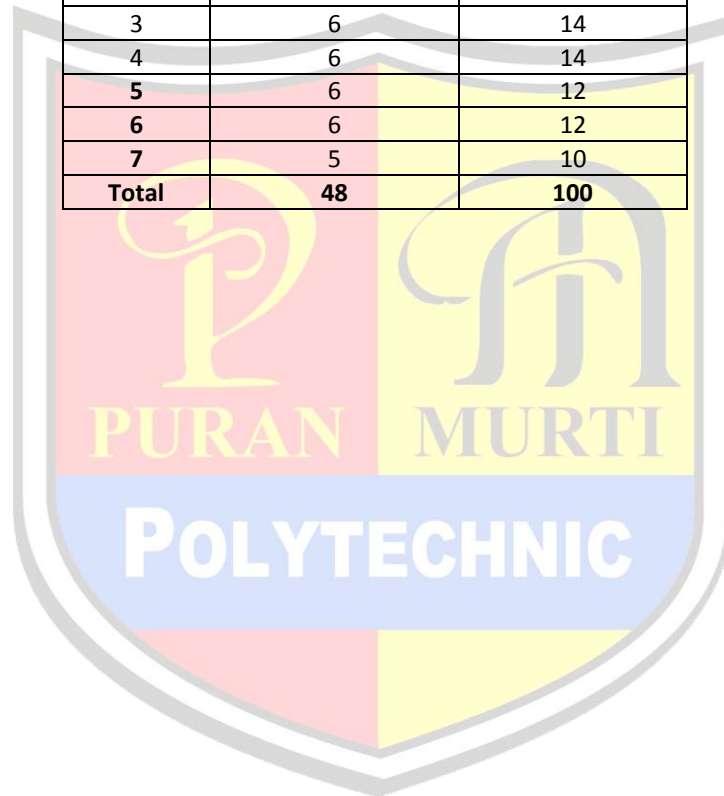
1. Mastering VB, by Evangelous Petroustos BPB Publications, New Delhi
2. Teach Yourself VB by Techmedia Publications, New Delhi

INSTRUCTIONAL STRATEGY

This subject deals with the programming concept of VB and the subject is having both theory and practical. While imparting instructions to the students, the teacher should stress on the usage of various built in Active-X Controls, DLL files so that with the help of which the students can develop application packages of their own

SUGGESTED DISTRIBUTION OF MARKS

Topic No.	Time Allotted (hrs)	Marks Allotted (%)
1	15	30
2	4	8
3	6	14
4	6	14
5	6	12
6	6	12
7	5	10
Total	48	100





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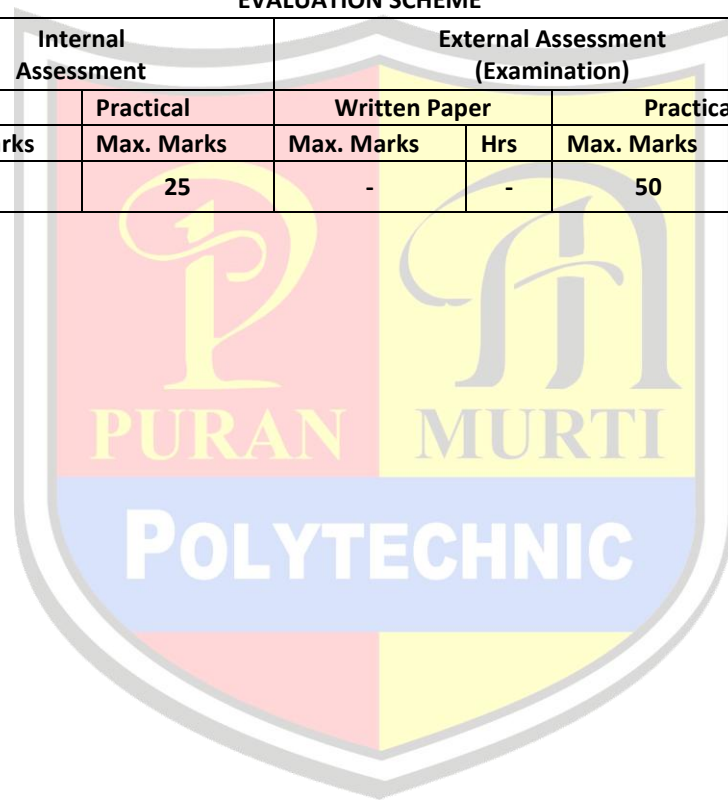
Subject: Visual Basic (Practical)

Subject Code: 120852(P)

LIST OF PRACTICALS

- 1) Exercise on opening projects like standard Exe, Active-X EXE and Active-X control
- 2) Exercise on all the menus of opening window of VB
- 3) Exercise on all basic controls
- 4) Exercise on design form like calculators, traffic lights
- 5) Exercise on small application using appropriate commands
- 6) Exercise on menus
- 7) Writing programs using arrays
- 8) Exercise on creating reports
- 9) Exercise on Data base connectivity
- 10) Exercise on creating own active X, component

STUDY SCHEME			EVALUATION SCHEME						Total Marks
			Internal Assessment		External Assessment (Examination)				
Hrs/week			Theory	Practical	Written Paper		Practical		
L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
-		2	-	25	-	-	50	3	75





1. Repair servicing and maintenance concepts

Introduction to servicing and maintenance concepts . Meantime between failure (MTBF). Meantime to repair and maintenance policy, potential problems. Concept of preventive maintenance and corrective maintenance. Factors responsible for preventive maintenance, scheduling of preventive maintenance. Comparison of Preventive maintenance and corrective maintenance. Concepts of shielding, grounding. Power supply requirements in consideration of computer and its peripherals.

2. Pre-Installation planning, Installation practice:

Unpacking and checking, Removing a motherboard, Removing and replacing daughter boards. Routine checks, PC Assembling. Standard CMOS setup, Adding HDD to a system. Preparing HDD for use: Low level formatting, partitioning, high level formatting. Using system tools: Scandisk, defragmentation, check disk. Backup: Using backup utility, system restoring. Creating drive image: GHOST.

3. Troubleshooting

Introduction, computer faults, nature of faults: Solid and Intermittent. Types of faults: Hardware and software. Reliability problems(Dry solder, loose contact, track break,etc) Diagnostic programs and tools: Nodal Testers and System Testers. Introduction to nodal tools like Logic probe, logic pulser, current tracer, Oscilloscope, Digital Multimeter. Introduction to system testers like function tester, signature analyzer, logic analyzer. Introduction to service manuals. Fault elimination process, Systematic Troubleshooting: Symptoms observation, Symptom analysis, Fault diagnosis, fault rectification. Troubleshooting levels: POST messages, running diagnostics, probing with tools, using emulator. Troubleshooting techniques: Functional area approach split half method, circuit tracing techniques. Fault finding in divergent, convergent and feedback path circuits.

4. Troubleshooting of computers and peripherals

Using Device manager, using task manager, dealing with error messages. problems and diagnosis of parts of computers : Motherboard, Floppy disk drive, Hard disk drives, CD ROM, DVD, Printers(Dot Matrix, Inkjet and laser), Modems, Monitors, SMPS, Serial ports.

REFERENCE BOOKS

1. IBM PC and Clones by B Govind Rajalu, Mc Graw Hill
2. Electronic Test Equipment by Rs Khandpur
3. Upgrading and Maintenance Guide of PC by Mark Minansi

INSTRUCTIONAL STRATEGY

The topic is very important as far as the job opportunity for the student of Computer Engineering is concerned. The teacher must greatly emphasise on detailed explanation of the topic for which he can make use of the peripheral device physically. All practical aspects specified must be handled by the students independently.

STUDY SCHEME			EVALUATION SCHEME						Total Marks
			Internal Assessment		External Assessment (Examination)				
Hrs/week			Theory	Practical	Written Paper		Practical		
L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
-		3	-	50	-	-	50	3	100



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Subject: EMPLOYABILITY SKILLS – I (Practical)

Subject Code: EMP SKLL

1. Writing skills

- i) Official and business correspondence
- ii) Job application - covering letter and resume
- iii) Report writing - key features and kinds

2. Oral Communication Skills

- i) Giving advice
- ii) Making comparisons
- iii) Agreeing and disagreeing
- iv) Taking turns in conversation
- v) Fixing and cancelling appointments

3. Generic Skills

- i) Stress management
- ii) Time management
- iii) Negotiations and conflict resolution
- iv) Team work and leadership qualities

STUDY SCHEME			EVALUATION SCHEME						Total Marks
			Internal Assessment		External Assessment (Examination)				
Hrs/week			Theory	Practical	Written Paper		Practical		
L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
-		2	-	25	-	-	50	3	75

