



**M. Sc (SOFTWARE ENGINEERING)  
 (FIVE YEARS INTEGRATED COURSE)  
 SEMESTER I**

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
YSE101	Technical English	3	0	0	3
YSE102	Mathematics- I	4	0	0	4
YSE103	Computer Hardware	4	0	0	4
YSE104	Fundamentals of Computer Science	4	0	0	4
YSE105	Fundamentals of Digital Computers	4	0	0	4
<b>PRACTICAL</b>					
YSE106	Software Lab	0	0	3	2
YSE107	Digital Electronics Lab	0	0	3	2
YSE108	Hardware Lab	0	0	3	2

**Total Hours: 28**

**Total Credits:25**

**SEMESTER II**

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
YSE201	Mathematics - II	4	0	0	4
YSE202	Applied Physics	4	0	0	4
YSE203	Computer Organization and Architecture	4	0	0	4
YSE204	Programming in C	4	0	0	4
YSE205	COBOL Programming	4	0	0	4
<b>PRACTICAL</b>					
YSE206	C Programming Lab	0	0	3	2
YSE207	COBOL Lab	0	0	3	2
YSE208	Communication Lab	0	0	3	2

**Total Hours: 29**

**Total Credits:26**

### SEMESTER III

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
YSE301	Mathematics - III	4	0	0	4
YSE302	Data Structures	4	0	0	4
YSE303	Object Oriented Programming and C++	3	1	0	4
YSE304	Microprocessors and Assembly Programming	4	0	0	4
YSE305	System Software and Operating System	3	1	0	4
YSE306	Structured System Analysis and Design	3	0	0	3
<b>PRACTICAL</b>					
YSE307	OOPS & Data Structures Lab	0	0	3	2
YSE308	Microprocessor Lab	0	0	3	2

**Total Hours: 29**

**Total Credits:27**

### SEMESTER IV

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
YSE401	Quantitative Techniques	4	0	0	4
YSE402	Database Management Systems	3	1	0	4
YSE403	Computer Networks	3	1	0	4
YSE404	Design and Analysis of Algorithms	4	0	0	4
YSE405	Software Engineering	3	1	0	4
YSE406	Principles of Data Communication	3	1	0	4
<b>PRACTICAL</b>					
YSE407	RDBMS Lab	0	0	3	2
YSE408	Algorithms Lab	0	0	3	2

**Total Hours: 30**

**Total Credits:28**

### SEMESTER V

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
YSE501	Principles of Compiler Design	3	1	0	4
YSE502	Java Programming	3	1	0	4
YSE503	Software Project Management	3	1	0	4
YSE504	Object Oriented Analysis and Design	4	0	0	4
YSE505	Environmental Sciences and Engineering	3	0	0	3
YSE506	Wireless Technology	4	0	0	4
<b>PRACTICAL</b>					
YSE507	UML and Design Lab	0	0	3	2
YSE508	JAVA Programming Lab	0	0	3	2

**Total Hours: 29**

**Total Credits:27**

### SEMESTER VI

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
YSE601	Advanced Database Management Systems	4	0	0	4
YSE602	Visual Programming	4	0	0	4
YSE603	Artificial Intelligence	4	0	0	4
YSE604	Professional Ethics and Human Values	3	0	0	3
YSE605	Software Architecture	4	0	0	4
<b>PRACTICAL</b>					
YSE606	Visual Programming Lab	0	0	3	2
YSE607	Mini Project -I	0	0	6	3
<b>TOTAL</b>		<b>19</b>	<b>0</b>	<b>9</b>	<b>24</b>

**Total Hours: 28**

**Total Credits:24**

### SEMESTER VII

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
YSEE**	Elective - I	4	0	0	4
YSEE**	Elective - II	4	0	0	4
YSE703	Data Mining and Data Warehousing	3	1	0	4
YSE704	Software Design	3	1	0	4
YSE705	C# and .NET	4	0	0	4
YSE706	Entrepreneurial Development Management	3	0	0	3
<b>PRACTICAL</b>					
YSE707	C# and .NET Lab	0	0	3	2
YSE708	Data Mining Lab	0	0	3	2

**Total Hours: 29**

**Total Credits:27**

### SEMESTER VIII

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
YSE801	Software Testing and Quality Assurance	3	1	0	4
YSE802	Software Reuse	3	1	0	4
YSE803	Component based development	4	0	0	4
YSE804	Social Engineering	3	0	0	3
YSEE**	Elective - III	4	0	0	4
YSEE**	Elective - IV	4	0	0	4
<b>PRACTICAL</b>					
YSE807	Software Testing Lab	0	0	3	2
YSE808	Mini Project-II	0	0	6	3

**Total Hours: 32**

**Total Credits:28**

### SEMESTER IX

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
YSE901	Software Documentation	3	0	0	3
YSE902	Web Technologies	4	0	0	4
YSE903	Mobile Computing	4	0	0	4
YSE904	Total Quality Management	4	0	0	4
YSEE**	Elective - V	4	0	0	4
<b>PRACTICAL</b>					
YSE906	Web Technologies Lab	0	0	3	2
YSE907	Main Project Phase - I	0	0	6	3
<b>TOTAL</b>		<b>19</b>	<b>0</b>	<b>9</b>	<b>24</b>

**Total Hours: 28**

**Total Credits:24**

### SEMESTER X

Code No.	Course Title	L	T	P	C
<b>PROJECT</b>					
YSE1001	Main Project Phase-II	0	0	24	12

**Over all Credits: 248**

## ELECTIVES

<b>CODE.NO</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
YSEE51	Distributed Computing	4	0	0	4
YSEE52	Information Security	4	0	0	4
YSEE53	Grid Computing	4	0	0	4
YSEE54	Software Quality Management	4	0	0	4
YSEE55	Software reliability	4	0	0	4
YSEE56	Soft Computing	4	0	0	4
YSEE57	User Interface Design	4	0	0	4
YSEE58	Ad hoc Networks	4	0	0	4
YSEE59	Advanced Java Programming	4	0	0	4
YSEE60	Software Agents	4	0	0	4
YSEE61	Network security	4	0	0	4
YSEE62	Pervasive computing	4	0	0	4
YSEE63	Cryptography	4	0	0	4
YSEE64	Advanced Computer Architecture	4	0	0	4
YSEE65	Simulation and Modelling	3	1	0	4
YSEE66	Theory of Computation	4	0	0	4
YSEE67	Client Server Computing	3	1	0	4
YSEE68	Software Team Process	4	0	0	4
YSEE69	Intelligent Networks	4	0	0	4
YSEE70	Scripting Languages	3	1	0	4

**YSE101 TECHNICAL ENGLISH 3 0 0 3**

**UNIT – I FOCUS ON LANGUAGE 9**

Word formation with prefixes and suffixes - synonyms and antonyms - nominal compounds, prepositions, homonyms, homophones and hyponyms, Part of speech, use of words as nouns and verbs, phrasal verbs, connectives, sentences patterns.

**UNIT – II FUNCTIONAL GRAMMAR 9**

Tense forms and voice forms, concord, degrees of comparison, conditional clause, definition of technical terms, Sentences expressing, (purpose and function,) comparison and contrast, cause and effect constructions, imperatives, reported speeches, Modal verbs, infinitives, gerund, participles

**UNIT – III READING 9**

Techniques of Reading – Technical articles on invention and discoveries, Reading comprehension on biographies of eminent scientists, engineers and successful entrepreneurs, Practicing -skimming and scanning, Rhetorical functions (narrative, descriptive and argumentative) sequencing of sentences. Connective adverbs. Idioms and phrases, phrasal verbs and cloze test.

**UNIT – IV WRITING I 9**

Framing questions and answering, (“Wh” type and “Yes or No”) type note making, (guided and open) making lists, stating problems and proposing solutions, recommendations, instructions, check lists, technical report writing, decoding from graphical representation ( flow chart, pie chart, tree diagram) numerical expressions.

**UNIT – V WRITING II 9**

Paragraph writing, essay writing, technical report writing, letter writing, (personal, business, letter of application, letter to the editor) resume writing, drafting e-mails, minutes of meeting, memorandum, creative writing.

**Total: 45**

## TEXT BOOKS:

1. Department of Humanities and Social Sciences, Anna University, English for Engineers and Technologists, Vols. I & II (Combined Edition), Orient Longman Pvt. Ltd., 2006.

## REFERENCES:

1. V.R. Narayanaswami, Strengthen Your Writing, 3<sup>rd</sup> Edition, Orient Longman, 2005.
2. Andrea J. Rutherford, Basic Communication Skills for Technology, 1<sup>st</sup> Edition, Pearson Education Asia (Singapore) Pvt. Ltd., Bangalore, 2001.
3. Nell Ann Pickett, Ann A. Laster, Katherine E. Staples, Technical English (Writing, Reading and Speaking), 8<sup>th</sup> Edition, Pearson Education, USA, Addison Wesley Longman Inc., 2001.
4. "Power words in Pairs". Emerald publishers - Chennai



**UNIT-I** **12**

How Computer works, How Hardware and Software Work together, Electricity and Power Supplies.

**UNIT-II** **12**

The Motherboard, Managing Memory, Floppy Drives

**UNIT-III** **12**

Understanding and Installing Hard Drives, Supporting I/O Devices, Multimedia Devices and Mass Storage.

**UNIT-IV** **12**

Supporting Modems, PC on a Network, Notebooks, Tablet PCs, and PDAs.

**UNIT-V** **12**

Supporting Printers, All about SCSI, Purchasing a PC or Building your own, Troubleshooting and Maintenance Fundamentals.

**Total: 60**

**TEXT BOOKS:**

1. A+ Guide to Hardware: Managing, Maintaining, and Troubleshooting, Jean Andrews Third Edition 2004
2. IBM PC and Clones : Hardware, Troubleshooting and Maintenance, B.Govindarajalu, 1991 Tata McGraw-Hill Publishing Company limited, New Delhi.

**REFERENCE:**

1. Lab Manual for A+ Guide to Managing and Maintaining Your PC, Jean Andrews Fifth Edition 2004

**UNIT I****12**

Introduction to computer organization: Central processing unit, Memory, Input-Output devices. Secondary devices, machine language, assembly language, and high level language, system software, operating system, BIOS, DOS, based OS (windows), Compilers and assemblers.

**UNIT II****12**

**Processor and Memory** : The Central Processing Unit (CPU) (The Control Unit, The Arithmetic Logic Unit (ALU), Instruction Set, Registers, Processor Speed, Types of Processors); The Main Memory (Storage Evaluation Criteria, Main Memory Organization, Main Memory Capacity, RAM,ROM, PROM and EPROM, Cache Memory.

**UNIT III****12**

**Secondary Storage Devices** : Sequential and Direct-Access Devices; Magnetic Tape (Basic Principles of Operation, Types of Magnetic Tapes, Advantages and Limitations of Magnetic Tapes, Uses of Magnetic Disks); Optical Disk (Basic Principles of Operation, Types of Optical Disks, Advantages and Limitations of Optical Disks, Uses of Optical Disks); Mass Storage Devices (Disk Array, Automated Tape Library, CD-ROM Jukebox); Storage Hierarchy.

**Input-Output Devices** : Input Devices (Keyboard Devices, Point-and-Draw Devices, Data Scanning Devices, Digitizer, Electronic Card Reader, Voice Recognition Devices, Vision-Input System); Output Devices (Monitors, Printers, Plotters, Screen Image Projector, Voice Response Systems).

**UNIT 1V****12**

**Computer Languages** : Analogy with Natural Languages; Machine Language (Advantages and Limitations of Machine Language); Assembly Language (Assembler, Advantages of Assembly Language over Machine Language, Limitations of Assembly Language, Assembly Languages with Macro Instructions); High-Level Language (Compiler, Linker, Interpreter, Advantages and Limitations of High-Level Languages); Object-Oriented Programming Languages; Characteristics of a Good Programming Language; Subprogram.

**Application Software Packages** : Word-Processing Package; Spreadsheet Package - Features; Graphics Package; Personal Assistance Package; Commonly Supported Features.

**UNIT V****12**

**The Internet** : Brief History; Basic Services (Electronic Mail, File Transfer Protocol, Telnet. Usenet News, The World Wide Web); WWW Browsers; Uses of the Internet.

**Classification of Computers** : Notebook Computers; Personal Computers (PCs); Workstations;  
Mainframe Systems; Supercomputers; Clients and Servers.

**Total : 60**

**TEXT BOOKS:**

1. Computers and common sense: Roger Hunt and John Shelly (PHI).
2. Internet for every one: Lenon & Lenon (Lenon Tech World).

**UNIT I** **12**

Number system-Binary-HEX and other number systems-conversion from one radix to another-Boolean algebra-ASCII-EBCDIC-Gray code-Excess 3 code-code conversion-parity checking.

**UNIT II** **12**

Basic logic gates-positive and negative logic-OR, AND, NAND, NOR, XOR, and NOT gates, K map-Half adder-Full adder-subtraction-serial parallel addition ,binary multiplication and division.

**UNIT III** **12**

Logic families-TTL, RTL, ECL, CMOS- tristate logic-specification-nose consideration interfacing of CMOS to TTL and interfacing of TTL to CMOS.

**UNIT IV** **12**

Sequential Circuits: Flip flops-RS, JK, T and D flip flops-conversions-shift register-counters-asynchronous counter-synchronous counter-up down counter-ring counter.

**UNIT V** **12**

MSI-LSI circuits- multiplexer- demultiplexers-encoder-decoder-programmable logic array-programmed logic-advantage and disadvantages-data transmission principle-RAM, ROM, PROM, EPROM, BJT RAM cells-MOSRAMS.

**Total : 60****TEXT BOOK:**

M.Morris Mano , “Digital Design”, 3<sup>rd</sup> Edition, Pearson Education, Delhi, 2002

**REFERENCE:**

M.Morris Mano , “Digital logic and computer design”, PHI, New Delhi, 2002

**YSE106 SOFTWARE LAB**

**0 0 3 2**

**OFFICE AUTOMATION**

- a. Word Processing
- b. OS commands
- c. Spread Sheet Package
- d. Presentation Software

**YSE107 DIGITAL ELECTRONICS LAB**

**0 0 3 2**

1. Binary and BCD counter using 7493
2. Verification of NAND, NOR, XOR, AND, OR Gate Logic
3. Parity Generator
4. Encoder / Coder
5. Multiplexes / Demultiplexer
6. Adder / Subtractor
7. Code Converters
8. Comparators
9. Up / Down 4 bit Binary Counter
10. Up / Down 4 bit Decimal Counter
11. Shift Register
12. Ring Counter

1. PC Installation
2. Trouble shooting the Mother Board
3. Trouble shooting Keyboard
4. Trouble shooting Floppy Disk Drive
5. Trouble shooting Hard Disk Drive
6. Trouble shooting Printers
7. Dignostic SW
8. Viruses

**YSE201      MATHEMATICS II      4   0   0   4**

**UNIT I      MULTIPLE INTEGRALS      12**

Double integrals – change of order of integration – Area enclosed by plane curves – Triple integrals.

**UNIT II      VECTOR CALCULUS      12**

Scalar and vector point functions – vector operator del, gradient, Divergence and curl, line integral – surface integrals – Verification of Gauss divergence – Green's and Stokes theorems.

**UNIT III      THREE DIMENSIONAL GEOMETRY      12**

Equation of a plane – Equation of a straight line – coplanar lines – shortest distance between two lines – Sphere – Equation of the tangent plane.

**UNIT IV      ANALYTIC FUNCTION      12**

Function of a complex variable – Analytic functions – Cauchy – Riemann equations – Harmonic functions.

**UNIT V      COMPLEX INTEGRATION      12**

Cauchy's integral theorem – Cauchy integral formula – Taylor's and Laurent's theorem (statement only) – singularities – Cauchy's residue theorem – integration around a unit circle – Integration around a semicircle (no poles on real axis).

**Total: 60**

**TEXT BOOKS:**

1. Grewal, B.S and Grewal, T.S., Higher Engineering Mathematics, Khanna Publication, Delhi, 2001 (36<sup>th</sup> Edition).
2. Veerarajan.T. Engineering Mathematics (First year & Semester III), Tata McGraw Hill Publication company Ltd., New Delhi, 1999.

**REFERENCE**

1. Kandasamy, P. Thilagavathy, K. and Gunavathy, K. Engineering Mathematics, Vol. I and II, S.Chand and Company, New Delhi, 2001.

**UNIT I: Diodes, Special Diodes and Transistors** **12**

Rectifier – Junction diode bridge rectifier – Filter – LC, RC and CLC filters – Voltage doubler – Zener diode – Its Characteristics – Voltage regulator using Zener diode – Varactor diode – Schottky diode – Light emitting diode - Photo diode –Construction Characteristics and Applications – SCR- DIAC – TRIAC – UJT their Construction Characteristics and Applications

**UNIT II : Transistors** **12**

Common emitter Configuration - Static Characteristics – Load line – Dynamic Characteristics – Transistor biasing – Methods of Transistor biasing - Equivalent circuit of a transistor - Transistor Amplifier - Analysis using Equivalent circuit - Hybrid parameters of Transistor - Single Stage RC Coupled amplifier using transistor, its frequency response – Analysis using hybrid parameters – LC Coupled and transformer Coupled Amplifier using Transistor - Multi Stage Amplifier - Field Effect Transistor - Construction Working Characteristics , Parameters – FET Amplifier.

**UNIT III : Voltage and Power amplifiers** **12**

Classification of Amplifiers – Small Signal Voltage amplifier Power amplifiers Class A, Class B and Class C amplifiers with an example in each – Feed back amplifiers Negative Feed back amplifier - Voltage Feed back amplifier – Emitter follower – Current Feed back amplifier.

**UNIT IV: Operational Amplifier** **12**

Difference amplifier – Ideal Operational Amplifier - Characteristics – Inverting and Non - Inverting op-Amplifier - Parameters of Op.Amp – application of OP.Amp - Comparator - Scale Changer – adding and Subtracting Op. Amp – Integrator – Differentiator - Logarithmic Amplifier – Antilog Amplifier – Instrumentation amplifier - Half Wave rectifier.

**UNIT V : Oscillators** **12**

Positive feedback in amplifiers – Principles of Positive feedback Oscillators – LC Oscillators – Tuned base , Tuned Collector Transistor Oscillators – Hartley's Oscillators – Colpitt's Oscillators – RC Oscillators, Phase Shift Oscillators – Crystal Oscillators – Multivibrators – Astable , Monostable, Bistable Multivibrators – Schmitt trigger -Blocking Oscillator.

**Total: 60****TEXT BOOKS:**

- 1.Modern Physics, R.Murugesan – S.Chand &Co.1994.
- 2.Principles of Electronics – V.K.Mehta – S.Chand &Co.1991.

**UNIT- I** **12**

Basic operational concepts- Number representation- Bus structures-addressing methods and machine program sequencing- Basic concepts- Memory location, addresses and encoding of information- Main memory operations- Instructions and instruction sequencing –Addressing modes- Basic input output operations- Subroutines

**UNIT- II** **12**

Processing unit- Fundamental concepts- Execution of a complete instruction- Hardwired control- Performance considerations- Microprogrammed control- microinstructions- Microprogram sequencing- Micro instructions with next address field- Prefetching Microinstructions- Emulation

**UNIT III** **12**

Input-output organizations- accessing I/O devices- interrupts- enabling and disabling interrupts- handling multiple devices- controlling device requests- use of interrupts in operating systems- Direct Memory Access- I/O channel- I/O Hardware- processor Bus-standard I/O interfaces –SCSI Bus- Backplane bus standards

**UNIT IV** **12**

Memory- Basic concepts-Semiconductor RAM memories- internal organization of memory chips-static memories- dynamic memories- cache memories- Mapping functions- replacement algorithms- performance considerations- Interleaving Hit rate and Miss penalty- other enhancements- virtual memories- address translation- Memory management requirements

**UNIT V** **12**

Introduction to parallel processing- Parallel processing mechanisms in uniprocessor systems-parallel computer structures- pipeline computers- array computers- Multiprocessor systems-performance of parallel computers- Architectural classification scheme- Flynn's classification-Feng's classification- Data flow computers.

**Total: 60****TEXT BOOKS:**

1. Computer Organization- V Carl Hamacher, Z Vonko G Vranesic, Safwat G Zaky- 4 th edn.Mc Graw Hill
2. Structured Computer Organization- Tanenbaum A S 3 rd Edn. -Phi

**REFERENCES:**

1. Computer Organization- V Carl Hamacher, Z Vonko G Vranesic, Safwat G Zaky- 4 th edn. Mc Graw Hill
2. Computer Organization and Design : Pal Chaudhary P- PHI

**UNIT I** **12**

Algorithms, Flow Charts – symbols and styles used, High Level Language for Computers - representations

**UNIT II** **12**

Overview of C, Constants, Variables, Data types, Operators and Expressions. Managing Input – Output Operators, Decision Making and Branching – Looping, Writing Simple Programs- Arrays - Handling Characters and Strings

**UNIT III** **12**

User Defined Functions – defining and using – syntax rules for functions – arrays in functions – global , recursive functions - local and static variables, Structures –arrays of structures- Unions,

**UNIT IV** **12**

Pointers – pointers and arrays – pointers and functions - Dynamic Memory allocation – Application of pointers – simple data structures

**UNIT V** **12**

File Management in C – creating and storing files – sequential files – unformatted files – text files-preprocessor directives.

**Total : 60****TEXT BOOKS:**

1. V.Rajaraman “Computer Programming in C”, Prentice Hall of India, New Delhi, 2001
2. E.Balaguruswamy “Programming IN ANSI-C” Ed.2, Tata McGraw Hill Publication Company, New Delhi, 2002

**REFERENCES**

1. Kamthane, A.N., “Programming with ANSI and Turbo C”, Pearson Education, Delhi, 2002.
2. Al Kelley, Iya Pohl., “A Book on C”, Pearson Education, Delhi, 2001.

**UNIT I 12**

Introduction – Coding Form – Characteristic – Words – Data Names – Literals – Parts of a COBOL Program – Data Structures – Data Levels – Picture Clause – VALUE and USAGE class – Filler – Basic Input / Output Statements – ACCEPT – DISPLAY – Arithmetic and Data Manipulation – ADD – SUBTRACT – MULTIPLY – DIVIDE – COMPUTE – MOVE statements – REMAMES – Condition Names – String, Unstring and Inspect Statements.

**UNIT II 12**

IF...ELSE Statement – Nested IF...ELSE, GO TO Statement – PERFORM Statement – EXIT Statement – ALTER Statement – Occurs Clause – Table Handling – REDEFINES Clause – SEARCH Statement – SET Verb – Subroutines – Linkage Section – COBOL 85 Features.

**UNIT III 12**

Sequential Files – File – Control Paragraph – FD Entry – Creation and Updation of Sequential Files – SORT / MERGE – Indexed Sequential Files – Creation- Updation – Relative Files – Creation and Manipulation.

**UNIT IV 12**

Report Writing – Screen Handling.

**UNIT V 12**

Theoretical analysis on : Sorting, Searching, Merging, Indexing, Master and Transaction Files – Payroll – Accounts – Inventory – Customer Mailing Lis

**Total: 60**

**TEXT BOOK**

1. E.Balagursamy, “COBOL Programming – A Self- Study Text”, Macmillan Series in Computer Science, 1997.

**REFERENCES**

1. M.K.Roy and D.Ghosh Dastidar, “COBOL Programming”, Second Edition, Tata McGraw Hill, 1998.
2. A.S.Philipakis and L.J.Kazmier, “Structured COBOL”, Tata McGraw Hill Publishing Company Limited, 1993.

*Implementation of*

1. Input / output functions
2. Control Functions
3. Functions
4. Arrays
5. Pointers
6. Structures and Unions
7. File handling

1. Program for Control Structures IF..ELSE, GO TO, PERFORM.
2. Program for Arithmetic Verbs and Picture Clause.
3. Sequential File Updation.
4. Sorting and Merging.
5. Indexed Sequential File Updation.
6. Relative File Updation.
7. Table Handling.
8. Table Searching.
9. Subroutines.
10. Report Writing.

**UNIT-I** **12****Extensive Listening -I**

Listening and typing –Listening and sequencing of sentences – Filling in the blanks – Listening and answering the question. Cloze Exercises- Vocabulary building – Dictionary habits- A brief note on thesaurus.

Listening to specific speeches, discussions, interviews, debates, lectures. (Instructional Aids: Audio cassettes, Tape recorders, Language Software.

**UNIT- II** **12****Intensive Listening-II**

Listening for specific information – note taking-guided and open – listening comprehension- listening to specific speeches-interviews –debates and lectures.

**UNIT III Speaking** **12**

Oral practice –developing confidence-introducing oneself-asking for or eliciting information-offering suggestions and recommendations.

Analysing problems and providing solutions- expressing opinions (agreement and disagreement) A brief note on idiom – its role in Communication English Pronunciation Practice-Stress intonation, accent, questions for oral discussions, describing objects, presenting informations, Process description, narrating events, giving introduction, welcome speech and proposing a vote of thanks.

**UNIT IV Conversation Practice** **12**

Group discussions, Face to Face conversation- Telephonic conversation- Role play activities participating in an interview (Students take on roles and engage in conversation) situational dialogues. Reporting, Role play exercises, word stress and Pronunciation.

## UNIT V

### LABORATORY PRACTICES

12

#### **Resume/ Report preparation / Letter writing**

Structure the resume/Project – note on turn – key project/ report letter writing/ E-mail communication samples

#### **Presentation skills**

Elements of an effective presentation – structure of presentation- presentation tools- voice modulation- audience analysis – body language- video samples.

#### **Soft skills**

The management- articulateness – assertiveness – psychometrics- innovation and creative – stress management and poise- video samples

#### **Group Discussion**

Why is GD part of selection process?- Structure of GD- moderator – led and other GDs – Strategies in GD- Team work- Body language(gestures)- Mock GD- Video samples.

#### **Interview skills**

Kinds of interviews- required key skills – corporate culture – mock interview- video samples.

**L: 60 Periods**

#### **TEXT BOOKS:**

- Meenakshi Raman, Sangeetha Sharma: Technical Communication Principles and Practice, Oxford University Press.

#### **REFERENCES:**

- Jeremy Comfort, Pamela Rogerson, Trish Stott and Derek Utley: Speaking Effectively, Cambridge University Press.
- Jayashree Balan; Spoken English, Vijay Nicole Imprints Private Ltd., Chennai.