பருவம்: முதற் பருவம் **பாடக் குறியீட்டு எண்: LT101T**

அலகு **பாடங்கள்**

1. அலகு – 1 **(மரபு கவிதைகள்)**
   - 1.1 வள்ளலார்
   - 1.2 பாரதியார்
   - 1.3 பாரதிதாசன்
   - 1.4 கவிமணி
   - 1.5 கண்ணதாசன்

2. அலகு – 2 **(புதுக்கவிதைகள்)**
   - 2.1 அப்துல் ரகுமான்
   - 2.2 மு. மேத்தா
   - 2.3 வைரமுத்து
   - 2.4 தமிழச்சி
   - 2.5 நாட்டுப்புறப்பாடல்கள்

3. அலகு – 3 **(இலக்கிய வரலாறு)**
   - 3.1 இருபதாம் நூற்றாண்டுக் கவிஞர்கள்
   - 3.2 புதுக்கவிதையின் தோற்றமும், வளர்ச்சியும்
   - 3.3 சிறுகதையின் தோற்றமும், வளர்ச்சியும்
   - 3.4 நாட்டுப்புற இலக்கியங்கள்

4. அலகு- 4 **(சிறுகதைகள்)** கதவு – கி.ரா
   - 4.1 கதவு
   - 4.2 குடும்பத்தில் ஒரு நபர்
   - 4.3 ஜெயில்
   - 4.4 மின்னல்
   - 4.5 எழுத மறந்த கதை

5. அலகு – 5 **(மொழித் திறன்)**
   - 5.1 வல்லொற்று மிகுமிடம்
   - 5.2 வல்லொற்று மிகாமிடம்

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SEMESTER – I ENGLISH THROUGH LITERATURE – I LE101S

UNIT - 1 **[15 HRS]**

RELATIONSHIPS

Freedom at Midnight – Larry Collins and Dominique Lapierre (Prose)
Night of the Scorpion – Nissim Ezekiel (Poem)
Driving Miss Daisy – Alfred Ubry (Play)

UNIT-2 **[15 HRS]**

SELF ENHANCEMENT

Ulysses – Alfred Lord Tennyson (Poem)
Our Urgent Need for Self-esteem – Nathaniel Brandon (Prose)
Emotional Intelligence – Daniel Goleman (Prose)

UNIT - 3 **[15 HRS]**

BASIC GRAMMAR

The Sentence

Parts of Speech

Nouns – Classes and Gender

Nouns – Number and Case

Adjectives

Comparison of Adjectives

UNIT- 4

BASIC LANGUAGE SKILLS **[15 HRS]**

Dialogue Writing
Letter writing – [Formal, Informal]
Comprehension

Text

1. Elango, K. **Insights : A Course in English Literature and Language**. Hyderabad: Orient Black swan Private Limited, 2009.
2. Bhatnagar, R.P., and Bhargava, Rajul. **English for Competitive Examinations**. Chennai: Macmillan India Press, 2002.
3. David Green, **Contemporary English Grammar: Structures and Composition**. Chennai: Macmillan India Limited, 2004.

Reference

1. Prince, Donna. **Skills for Success**, New York: CUP 1998.
2. Wallace, Michael, J. **Study Skills in English**. Kottayam: CUP, 2004.

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SEMESTER – I PROGRAMMING IN C CS101S

UNIT – I **10hrs**

Basics Of C: C fundamentals Character set – Identifier and keywords – data types – constants– Variables – Declarations – Expressions – Statements – operators – Library functions.

UNIT – II **10hrs**

I/O and Control Statements: Data input output functions - Simple C programs - Flow of control – if, if-else, while, do-while, for loop, nested control structures – switch, break and continue, go to statements.

UNIT –III **15hrs**

Function and Storage classes: Function – Definition – Prototypes – Passing arguments – Recursion - Storage classes.

UNIT – IV **15hrs**

Arrays, Structures and Unions: Arrays – Defining and Processing – Passing arrays to functions – Arrays and string - Structures and Unions.

UNIT – V **10hrs**

Pointers and Files: Pointers – Declarations – Passing pointers to function – Operation on Pointers – Pointer and Arrays – Files and operation on files.

Text Books:

1. Programming in ANSI C by E.Balagurusamy.
2. Ashok N.Kamthane, Programming with ANSI and Turbo C, Pearson Education.

Reference Books:

1. B.W. Kernighan and D.M. Ritchie, the C programming Language.
2. H. Schildt, C: The Complete Reference, TMH Edition,.
3. Kanetkar Y., "Let us C", BPB Pub., New Delhi.

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SEMESTER – I DIGITAL LOGIC FUNDAMENTALS CS102

UNIT-I **10 hrs**

Number System: Binary number system - The Basic Gates - Boolean Algebra - Universal Gates - Boolean Laws and Theorem – Number system and its conversion.

UNIT-II **10 hrs**

Simplification: Sum of products - Product of Sums - K-map simplifications - Don't care conditions-Quine Mcclausky tabulation method.

UNIT-III **15 hrs**

Combination and Arithmetic Circuit: Adders-Subtractors-full adder-subtractor-BCD Adder- ROM-PLA-Designing circuits using ROM/PLA

UNIT-IV **15 hrs**

Combination and Logic Circuit: Multiplexers-Demultiplexers-Decoders: 1 of 16 Decoders-seven segment decoders-Encoders.

UNIT-V **10 hrs**

Sequential Logic Circuit: Flip-Flops - Its types - RS Flip flop -, JK Flip flop, D Flip flop, T and Master Slave. Counters and its types - counter Design. Shift Registers and its types. -. Design of ALU.

Text Books:

1. Digital Computer Fundamentals-Thomas C.Bartee- McGraw Hill Pub.
2. Digital principles and applications –Malvino & Leach- McGraw Hill Pub.

Reference Books:

1. Digital Computer Fundmentals-S.Ramalatha
2. Digital Logic and Computer Design-M.Morris Mano-PHI

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SEMESTER – I ALLIED MATHEMATICS – I AMCS101T

OBJECTIVES

This subject covers the topics Theory of equations, matrices, differential calculus, Integral calculus and vector analysis, to explore the fundamental concepts of Mathematics.

UNIT-I: THEORY OF EQUATIONS

Polynomial Equations with real Coefficients – Irrational roots – Complex roots – Symmetric functions of roots.

UNIT-II: THEORY OF EQUATIONS (CONTD)

Transformation of equation by increasing or decreasing roots by a constant – Reciprocal equations – Newton's method to find a root approximately (without proof) .

UNIT-III:MATRICES

Rank of a matrix – Consistency of equations – Eigen roots and Eigen vectors – Cayley – Hamilton's theorem [without proof] – Verification and computation of inverse matrix.

UNIT-IV: TRIGONOMETRY

Expansions of $\sin^n \theta$, $\cos^n \theta$, $\sin n\theta$, $\cos n\theta$, $\tan n\theta$ – Expansions of $\sin\theta$, $\cos\theta$, $\tan\theta$ in terms of θ – Hyperbolic and inverse hyperbolic functions – Logarithms of complex numbers.

UNIT-V: DIFFERENTIAL CALCULUS

n-th derivatives – Leibnitz theorem [without proof] and its applications – Jacobians – Concepts of polar co-ordinates – Curvature and radius curvature in Cartesian co-ordinates.

TEXT BOOK:

P. Duraipandian and S. Udayabaskaran. 2005, " Allied Mathematics", Vol I & II. Chennai: Muhil Publishers.

Unit-I: Chap:3(3.1,3.1.1,3.1.2,3.2,3.2.1)
Unit-II: Chap:3(3.2.2,3.3,3.4.1), Unit-III: Chap:4(4.4,4.5,4.5.2,4.5.3),
Unit-IV: Chap:6 (6.1,6.1.1-6.1.3,6.2,6.2.1-6.2.3,6.3,6.4),
Unit-V: Chap:1(1.1.1,1.1.2,1.2,1.4.3,1.4).

REFERENCE BOOKS:

1. P. Balasubramanian and K. G. Subramanian. 1997, " Ancillary Mathematics", Vol I & II. New Delhi: Tata McGraw Hill.
2. S.P.Rajagopalan and R.Sattanathan 2005, "Allied Mathematics", Vol I & II. New Delhi: Vikas Publications.
3. P. R. Vittal(2003), "Allied Mathematics", Chennai: Marghan Publications.
4. P.Kandhasamy, K. Thilagavathy(2003), "Allied Mathematics", Vol I & II. New Delhi: S. Chand & Co Ltd.

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SEMESTER – I VALUE EDUCATION VE101

Unit I

Values-Definition- Concept -Sources of values-Characteristics of values-Classification of values-Importance of value education-Erosion of values-Political erosion-social erosion-economic erosion.

Unit II

Personal values-Importance- Self concept-Meaning-the existential self- the categorical self- self - image- Ideal self- Attitude-Meaning-Formations-Factors determining attitude-Need for positive attitude-Developing positive attitude-Consequences of negative attitude.

Unit III

Adjustment problems- Emotional and sexual adjustments-Significance of youth period- Autonomy versus dependence -Feeling of inferiority- Marriage and family-Identity of roles- Vocational problems - Social discrimination- stress coping skills.

Unit IV

Social values-Meaning-Importance-Types-Social sensitiveness-Altruism-Toleration-Social adjustment- Social loyalty-Social justice-Panchsheel of values-Other social values-Family values- Value of team work-Functions of family-Moral values-Importance of moral values.

Unit V

Cultural values-Meaning-Importance -Religious values-Characteristics of religious values- significance of religious education- Secular values-mutual understanding – Mutual cooperation- Tolerance- Appreciation of universal truths- Character-Humanitarianism.

Text Books;

1. RATCHAGAR .I (2010) mental health of rural youth.vijay Nicole imprints private limited, Chennai.
2. RATCHAGAR .I (2012) Value education, personality enrichment& soft skills. Vijay Nicole imprints private limited, Chennai.

References;

1. Beliefs Attitudes and Values by Milton Rokeach (1968)
2. The Nature of Human Values by Milton Rokeach (Aug 1973)
3. Understanding Human Values by Milton Rokeach (Jul 1, 2000)
4. The Three Christs of Ypsilanti (New York Review Books Classics) by Milton Rokeach and Rick Moody (Apr 19, 2011)
5. Understanding Human Values by Milton Rokeach (Jul 1, 2001)
6. Health And Human Values by Frank Harron, (1983)

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SEMESTER – I PROGRAMMING IN C CSP101S

1. Control Statements
    a. Implementing Control statements
    b. Implementing Loop structures.
2. Summation of series
3. String Manipulation.
4. Sorting
    a. Bubble Sort
    b. Selection Sort
    c. Insertion Sort
5. Searching
    a. Linear Search
    b. Binary Search.
6. Matrix Manipulations
7. Recursion
8. File Handling - Mark sheet.

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