

பருவம்: முதற் பருவம்

பாடக் குறியீட்டு எண்: LT101S

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 தமிழ்ச்சி
- 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

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.

SEMESTER – I ALGEBRA & TRIGONOMETRY MT101S**UNIT - I: THEORY OF EQUATIONS**

Polynomial Equations - Imaginary and Irrational roots – Symmetric Functions of roots in terms of Coefficients – Reciprocal Equations – Transformation of Equations - Descartes Rule of Signs – Approximate Solutions of Polynomials by Horner's method – Newton Raphson method of Solution of a cubic polynomial.

UNIT-II: TRIGONOMETRY

Expansion of $\cos n\theta$, $\sin n\theta$ - Expansion of $\tan n\theta$ in terms of $\tan\theta$ - Expansion of $\tan[A+B+C+\dots]$ solution of trigonometric equations. Powers of sines and cosines of θ in terms of functions of multiples of θ – Expansions of $\sin\theta$, $\cos\theta$ and $\tan\theta$ in a series of ascending powers of θ - Hyperbolic and Inverse Hyperbolic functions: Real and Imaginary parts - Inverse Hyperbolic functions.

UNIT - III: SUMMATION OF SERIES

Binomial - Exponential and Logarithmic series [Theorems without proofs]

UNIT - IV: MATRICES

Symmetric – Skew symmetric – Hermitian Skew Hermitian – Orthogonal and Unitary Matrices – rank of Matrix – Consistency and solutions of Linear Systems – Cayley Hamilton Theorem [without proof] – Eigen Values – Eigen Vectors – Similar Matrices – Diagonalisation of Matrix.

UNIT - V: ELEMENTARY NUMBER THEORY

Prime Number – Composite Number – Decomposition of a Composite Number as a Product of Primes uniquely [without proof] – Divisors of a Positive Integer – Congruence Modulo n – Euler Function [without proof] – Highest Power of a Prime Number p contained in $n!$ – Fermat's and Wilson's Theorems (without proof)

Text Books:

1. T.K.Manicavachagom Pillay, T.Natarajan and K.S.Ganapathy. [2004], Algebra, Volume I & II S.Viswanathan Printers Pvt. Ltd. Chennai.
2. P. Kandasamy, K.Thilagavathy [2004], Mathematics for B.Sc Vol – I, II, III & IV, S.Chand & Company Ltd., New Delhi-55.

Reference Books

1. P. Kandasamy, K.Thilagavathy [2004], Mathematics for B.Sc Vol – I, II, III & IV, S.Chand & Company Ltd., New Delhi-55.
2. S.Arumugam [2003] Algebra. New Gamma Publishing House, Palayamkottai.
3. A.Singaravelu [2003] Algebra and Trigonometry, Vol – I & II Meenakshi Agency, Chennai.
4. S.Sudha. [1998] Algebra and Trigonometry. Emerald Publishes, Chennai.

SEMESTER – I TWO DIMENSIONAL & THREE DIMENSIONAL GEOMETRY MT102Q**OBJECTIVES:**

The course aims to introduce the concepts of Parabola, Ellipse, Hyperbola & Rectangular Hyperbola, Planes and Straight lines, Sphere, Cone and Cylinder.

UNIT – I: CONICS

Parabola & Ellipse in polar forms; Hyperbola & rectangular Hyperbola in parametric forms.

UNIT - II: PLANES

General equation – angle between the planes - passing through three points – line of intersection – length of the perpendicular – plane bisecting the angles.

UNIT - III: STRAIGHT LINES

Symmetrical form – passing through two points – plane and straight line – coplanar lines – shortest distance.

UNIT - IV: THE SPHERE

Section of a sphere by a plane – Tangent plane Radical plane – Co-axial system of spheres, Limiting points, orthogonal sphere.

UNIT - V: CONE AND CYLINDER

Equation of a cone – Cone whose vertex is at the origin – Quadric cone with vertex at origin – Right Circular Cone – Enveloping Cone of a Sphere – Cylinder – Right Circular Cylinder – Equation of an Enveloping Cylinder.

TEXT BOOKS:

1. T.K.Manicavachagom Pillay & T. Natrajan (2011), "Analytical Geometry, part I Two Dimensions", S.Viswanathan Printers & Publishers Pvt.Ltd. Chennai. Unit-I: Chapter 6:6,6.1, Chapter 7:7,7.1, 7.2, Chapter 8:3,3.1,11,11.1,11.2,12,13.
2. T.K.Manicavachagom Pillay & T. Natrajan (2011), "Analytical Geometry, part II- Three Dimensions", S.Viswanathan Printers & Publishers Pvt.Ltd. Chennai. Unit-II: Chapter: 2.1 – 2.9,2.11, Unit-III:Chapter: 3.1 - 3.8 (omitted 3.8.1 & 3.8.2), Unit-IV:Chapter: 4.1 – 4.8, Unit-V: Chapter: 5.2,5.2.1,5.3,5.4,5.5,5.6 & 8,8.1,8.2,8.3.

REFERENCE BOOKS:

1. Duraipandian and Laxmi Duraipandian(1965), "Analytical Geometry - 3D", Emerald Publishers, Chennai.
2. S.Santha & T.Pathinathan(2005), "3D Analytical Geometry & Propability", Vijay Nicole Imprints Pvt.Ltd.,Chennai.
3. P.R.Vittal [2003], "Coordinate Geometry", Margham Publication, Chennai.
4. P.Kandasamy, K.Thilagavathy (2004), "Mathematics for B.Sc" Vol-I, II, III & IV, S.Chand & Company Ltd, New Delhi-55.

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SEMESTER – I MATHEMATICAL STATISTICS – I ASMT101Q

(A question paper must contains 80% problems and 20% theory)

UNIT – I

Diagrammatic representation of statistical data – Simple bar diagram, Multiple bar diagram, Percentage bar diagram, Subdivided bar diagram and Pie diagram. Graphical representation of statistical data: Histogram, Frequency polygon, Frequency curves and Ogives. Measures of Locations and Dispersion. Skewness and Kurtosis.

UNIT – II

Probability: Basic definitions – Axiomatic approach to Probability – Basic theorems on Probability – Addition theorem on probability and related problems – Conditional probability – Multiplication theorem of probability and related problems – Independent events – Pair wise Independent events (definition only) – Baye's theorem and related problems.

UNIT – III

Random Variable – Distribution function and their properties - Discrete random Variable – Probability mass function and simple problems - Continuous random variable – Probability density function and simple problems – Two dimensional random variables – Joint probability mass function, Joint probability density function and simple problems.

UNIT – IV

Mathematical Expectations: Properties of Expectations – Variance, Covariance and their properties. Moment generating function – Characteristics function - Cumulants – Chebychev's inequality (only theorem)

UNIT –V

Correlation: Scatter diagram, Karl Pearson's Coefficient of correlation, Spearman's rank correlation - Partial and Multiple correlations (3 variables only). Regression analysis: Simple regression equations.

Text Books:

1. "Fundamentals of Mathematical Statistics" (11th edition – 2002), Gupta. S. C. and Kapoor. V. K., Sultan Chand & Sons, New Delhi.
2. "Statistical Methods" (32nd edition - 2004), Gupta. S. P., Sultan Chand & Sons, New Delhi.

Reference Books:

1. "Mathematical Statistics" (1st edition - 2002), Vittal. P. R., Margham Publications, Chennai-17
2. "Introduction to Probability and Statistics" (2nd edition - 1939), Vijay Rohatgi. K. and Ehsanes Saleh. A.K., John Wiley & Sons, Inc., New York.
3. "Introduction to Theory of Statistics" (3rd edition - 2001), Alexander M. Mood, Franklin A. Graybill and Duance C Boes, Tata McGraw Hill Publishing Company Ltd., New Delhi.
4. "Fundamentals of Statistics - Volume II" (6th edition - 1990), Goon. A. M., Gupta. M. K. and Dass Gupta. B, The World Press Private Ltd., Calcutta.

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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)

பருவம்: இரண்டாம் பருவம்

பாடக் குறியீட்டு எண்: LT202S

அலகு பாடங்கள்

அலகு – 1

- 1.1 திருமூலர்
- 1.2 சம்பந்தர்
- 1.3 திருநாவுக்கரசர்
- 1.4 மாணிக்கவாசகர்
- 1.5 ஆண்டாள்

அலகு – 2

- 2.1 பட்டினத்தார்
- 2.2 மஸ்தான் சாகிபு
- 2.3 குமரகுருபரர்
- 2.4 கலிங்கத்துப் பரணி

2.5 நந்திக்கலம்பகம்

2.6 முக்கூடற்பள்ளு

அலகு – 3 (உரைநடை)

நம்மால் முடியும் தம்பி நம்பு

எம்.எஸ்.உதயமூர்த்தி

அலகு- 4 (இலக்கிய வரலாறு)

4.1 சைவ சமயக் குரவர்

4.2 ஆழ்வார்கள் (ஆண்டாள், குலசேகர ஆழ்வார் மட்டும்)

4.3 சிற்றிலக்கியங்கள் (பரணி, பள்ளு, பிள்ளைத் தமிழ், கலம்பகம் மட்டும்)

4.4 இசுலாமும் தமிழும்

4.5 உரைநடை வளர்ச்சி

அலகு – 5 (மொழித் திறன்)

5.3 கலைச் சொல் ஆக்கம்

5.3.1 அறிவியல்

5.3.2 ஆட்சித்துறை

5.3.3 கணினி

5.3.4 புழங்கு பொருட்கள்

5.4 மொழிபெயர்ப்புப் பகுதி

5.4.1 கடிதங்கள்

SEMESTER – II ENGLISH THROUGH LITERATURE – II LE202S

UNIT -1

[15 HRS]

PROSE : Contemporary Issues

The First Atom Bomb – Marcel Junod

Climatic Change and Human Strategy – E. K. Fedcrov

Corruption : Causes, Consequences and Agenda for Further Research – Paolo Mauro

UNIT-2

LIFE STORIES

[15 HRS]

The Diary of a young girl – Anne Frank

Wings of Fire – A.P.J. Abdul Kalam

Mother Teresa – F. G. Herod

UNIT - 3

[15 HRS]

BASIC GRAMMAR

Articles

Pronouns – Personal, Reflexive and Emphatic

Pronouns – Demonstrative, Indefinite, Interrogative, Distributive and Reciprocal.

Pronouns – Relative

Verbs – Transitive and Intransitive, Active and Passive Voice

Verbs – Mood and Tense

UNIT - 4.

WRITTEN COMMUNICATION SKILLS

[15 HRS]

Precis Writing

Note Making

Report Writing

Text

1. Elango, K. **Insights : A Course in English Literature and Language**. Hyderabad: Orient Black Swan Private Limited, 2009.
2. Bhatnagar, R.P., and Rajul Bharagava. **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.

SEMESTER – II CALCULUS MT203S

OBJECTIVES

The course aims to introduce the concepts of Differential Calculus, Curvature, Asymptotes, and Reduction formulae, Beta and Gamma Functions and Double Integrals.

UNIT - I:DIFFERENTIAL CALCULUS

Jacobians – Total differential – maxima and minima functions of 2 and 3 independent variable, Lagrange's method [without proof].

UNIT - II:DIFFERENTIAL CALCULUS[Contd]

Curvature, Radius of Curvature in Cartesian and Polar coordinates , p-r equation.

UNIT – III: DIFFERENTIAL CALCULUS[Contd]

Evolutes, Envelope, Asymptotes: Methods [without proof] of finding asymptotes of rational algebraic curves with special cases.

UNIT -IV:INTEGRAL CALCULUS

Reduction formulae, Beta , Gamma Functions and their Properties .

UNIT -V: INTEGRAL CALCULUS[Contd]

Change of order of Integration – Applications to Area, Surface Area and Volume.

TEXT BOOKS:

1. S.Narayanan and T.K.Manicavachagom Pillay [2006], "Calculus" Volume-I & II, S.Viswanathan Printers & Publishers Pvt.Ltd. Chennai.
Volume-I: Unit-II- Chapter: X (Sec:2.1-2.4,2.6-2.8),
Volume-II: Unit-IV- Chapter:1 (Sec:13.1-13.10) & Chapter:7 (Sec:2.1-6),
Unit-V- Chapter:5 (Sec:5.1-5.7).
2. P.Kandasamy, K.Thilagavathy [2004], "Mathematics for B.Sc", Vol-I & II , S.Chand & Company Ltd., New Delhi-55.
Volume-I: Unit-I- Pages:(199-209 , 215 – 241),
Volume-II: Unit-III- Chapter: 3 (Pgs:345 - 361) & Chapter:4 (Pgs:380 - 396).

REFERENCE BOOKS:

1. Shanti Narayan [2001], "Differential Calculus",Shyamlal Charitable Trust, New Delhi.
 2. Shanti Narayan [2001], "Integral Calculus", S.Chand & Co. New Delhi.
 3. S.Sudha [1998], "Calculus", Emerald publishers, Chennai.
 4. G.B.Thomas and R.L.Finney[1998], "Calculus and Analytic Geometry", Addison Wesley 9th Ed], Mass.[Indian Print].
- P.R.Vittal [2004], "Calculus", Margham Publication, Chennai.

SEMESTER – II NUMERICAL METHODS MT204S

OBJECTIVES

The course aims to introduce the concepts of Finite differences, Central differences, Interpolation for unequal intervals, Inverse interpolation and Solutions of simultaneous linear equations.

UNIT- I: FINITE DIFFERENCES

First and higher order differences-forward differences and Backward differences- Operators, Relation between ∇, Δ and E – Interpolation –Gregory- Newton's forward & backward formulae for interpolation-Factorial polynomial.

UNIT-II: CENTRAL DIFFERENCES

Central difference Operators – Central differences formulae- Gauss Forward and Backward formulae – Stirling's formula – Bessel's formula.

UNIT-III:

INTERPOLATING FOR UNEQUAL INTERVALS AND INVERSE INTERPOLATION

Divided differences – Newton’s divided differences formula and Lagrange’s interpolation formula – Estimating the Missing terms [with one or more missing values] –Inverse Lagrange’s method.

UNIT – IV: LINEAR ALGEBRAIC EQUATIONS

Gauss elimination method – Gauss Jordan Method- Gauss Seidal method – Crout’s method [Three unknowns only]- inverse of a matrix-Gaussian method.

UNIT – V: NUMERICAL DIFFERENTIAL AND INTEGRAL EQUATION

Euler’s method-Improved Euler’s method- Modified Euler’s method- The Runge Kutta Method-Adam’s method-Trapezoidal rule-Simpson’s 1/3rd rule-Simpson’s 3/8 th rule.

TEXT BOOKS:

1. A.Singaravelu [2004], “Numerical Methods”, Meenakshi Agency, Chennai
2. 2.M.K.Venkataraman(1992), “Numerical Methods for Science and Engineering”, National Publishing Company, Chennai.

REFERENCE BOOKS:

1. S.Arumugham[2003], "Numerical Methods", New Gamma Publishing, Palayamkottai.
2. H.C.Saxena[1991], "Finite Differences and Numerical Analysis" ,S.Chand & Co. Delhi.
3. B.D.Gupta(2001), "Numerical Analysis", Konark Pub. Ltd., Delhi.
4. P.Kandasamy, K.Thilagavathy [2003], "Calculus of Finite difference & Numerical Analysis",
5. S.Chand & Company Ltd., New Delhi-55.

St. Joseph's College, Cuddalore.

SEMESTER – II MATHEMATICAL STATISTICS – II ASMT202T**OBJECTIVE:**

- ✓ To motivate the students to apply the statistical techniques in their respective major subjects.
- ✓ To make the students to understand the subject.

UNIT – I

Discrete distributions: Binomial distribution, Poisson distribution and Geometric distribution – Derivations of mean, variance and moment generation functions.

UNIT – II

Continuous distributions: Uniform (mean, variance and m. g. f.), Exponential (mean, variance and m. g. f.) and Normal distributions (m. g. f., characteristics and area problems). Sampling distributions: Student's t, F and χ^2 distributions (derivations only) and their relationships.

UNIT – III

Tests of Significance (small samples) based on t and F distributions with respect to mean, variance and correlation coefficient. Chi-Square distribution: Test for independence of attributes.

UNIT – IV

Tests of significance (large samples) – Proportion, Mean, Standard deviation and Correlation Coefficient.

UNIT –V

Analysis of Variance: One way and two way classifications. Design of experiments: CRD, RBD and LSD.

Text Books:

1. "Fundamentals of Mathematical Statistics" (11th edition – 2002), Gupta. S. C. and Kapoor. V. K., Sultan Chand & Sons, New Delhi.
2. "Statistical Methods" (32nd edition - 2004), Gupta. S. P., Sultan Chand & Sons, New Delhi.
3. "Fundamentals of Applied Statistics" (2nd edition – 1978), Gupta. S. C. and Kapoor. V. K., Sultan Chand & Sons, New Delhi.

Reference Books:

1. "Mathematical Statistics" (1st edition - 2002), Vittal. P. R., Margham Publications, Chennai - 17
 2. "Introduction to Probability and Statistics" (2nd edition - 1939), Vijay Rohatgi. K. and Ehsanes Saleh. A.K., John Wiley & Sons, Inc., New York.
 3. "Introduction to Theory of Statistics" (3rd edition - 2001), Alexander M. Mood, Franklin A. Graybill and Duance C Boes , Tata McGraw Hill Publishing Company Ltd., New Delhi.
- "Fundamentals of Statistics - Volume II" (6th edition - 1990), Goon. A. M., Gupta. M. K. and Dass Gupta. B, The World Press Private Ltd., Calcutta.

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பருவம்: இரண்டாம் பருவம் பாடக் குறியீட்டு எண் : EBT 201

அலகு - 1

எளிய முறையில் தமிழ் கற்றல்.

1. பட்டம் - சட்டம் - கட்டம் - தட்டு - வட்டம் - மாமா
2. பாடம் - சட்டி - கட்டி - தட்டி - வடம் - மாமி
3. பட்டி - சடை - கடை - தடை - வடை - மாதா
4. படி - சாதம் - கார் - தார் - வான் - மாதம்
5. படை - சாவி - காவி - தாள் - வான் - அம்மா - அப்பா
6. பாப்பா -
7. பாட்டி -
8. பாட்டு -

சிறு தொடர்.

பாப்பா படி - பாட்டி கடை - கட்டம் கட்டித்தா -
பாப்பா பாடம்படி - பாட்டி தட்டு -
பாப்பா பாட்டு படி - பாட்டி வடைத்தட்டு

பயிற்சி.

குடும்பத்தினர் (அ) நண்பருடன் பேச்சுத் தமிழில் உரையாடல்
குறில் நெடில் வேறுபாட்டால் பொருள் மாறுபடும் சொற்கள்
பரம் - பாரம் கரம் - காரம் வரம் - வாரம் சரம் - சாரம்
தரம் - தாரம்

அலகு - 2

உயிரெழுத்துக்கள், ஆய்த எழுத்து, மெய்யெழுத்துக்கள் - வகை, எண்ணிக்கையுடன் அறிதல்.

உயிர்மெய் எழுத்துகள் உருவாதலைக் கற்றல்:
(வல்லின மெய்கள்)

க் + அ - க ற் + ஓள - றோள
K + A - KA RR + OU - RROU

அலகு - 3

உயிர்மெய் எழுத்துகள் மெல்லினம், இடையினம்

ங் + அ = ங ன் + ஓள - னோள
NG + A - NGA N + OU - NOU

ய் + அ = ய ள் + ஓள - ளோள
Y + A - YA LL + OU - LLOU

ஒலி வேறுபாட்டால் பொருள் மாற்றம் (ர-ற, ன-ண, ல-ள, ழ)

அரம் - அறம்

உன் - உண்

வால் - வாள் - வாழ்

ஒவ்வொன்றிற்கும் ஐந்து எடுத்துக்காட்டு தருக.

அலகு - 4

சொல்-வகை

ஓரெழுத்து ஒருமொழி

பெயர்:

ஆ, பூ, தீ, தை, கா (சோலை)

வினை:

வா, போ, ஈ (கொடு)

தா, கா (காத்தால்)

ஈரெழுத்து ஒருமொழி:

பெயர்:

கனி, பனி, வான், காடு, வீடு

வினை:

நில், படி, பார், காண், எழு

தொடர்மொழி: பெயர்:

கபிலர், வெள்ளிவீதியார், திருவள்ளுவர், ஆண்டாள், கம்பர், பாரதியார்

முக்கனி, முத்தமிழ், மூவேந்தர், நாற்றிசை, ஐம்பொறி - இவற்றிற்கு விளக்கம் தருக.
முறைப்பெயர் (உறவுப்பெயர்) அம்மா, அப்பா, மாமா,

அலகு - 5

உடலுறுப்புப் பெயர்கள்:

தலை முதல் அடி வரை உள்ள உறுப்புகள்

முதலெழுத்து மாற்றத்தால் பொருள் மாற்றம் பெறும் உடலுறுப்புகள் சான்றாக:

உதயம் - இதயம்

ஊக்கு - மூக்கு

பண், மண் - கண்

படி - அடி

மரம், வரம் - கால்

கல் - பல்

ஆல், பால் - கால்

கொடை - தொடை

அலை, இலை - தலை

மாது - காது

பாக்கு, வாக்கு - நாக்கு

கிழி - விழி

எழுத்து - கழுத்து

பறவைப் பெயர்கள்:

மயில், அன்னம், கிளி, புறா, குயில்

வீட்டு விலங்குகள்:

பசு, ஆடு, குதிரை, நாய், பூனை

மலர்கள்:

தாமரை, மல்லிகை, முல்லை, செண்பகம், அல்லி

நிறங்கள்:

வானவில்லின் வண்ணங்கள் - அறிதல்

எண்கள்:

ஒன்று முதல் ஐம்பது வரை எழுத்தால் எழுதுதல்

சிறுகதை:

“புலியை ஏமாற்றிய நரி” தமிழ் - நான்காம் வகுப்பு, தமிழ் நாட்டுப் பாடநூல் கழகம், சென்னை.

SEMESTER – II PERSONALITY DEVELOPMENT EPD201

Unit I

Personality

Meaning-definition-major determinants of personality genetic determinants, social determinants, cultural determinants, psychological determinants, theories Jung's typology trait theory psychoanalytical theory importance of personality development guidance to improve personality.

Unit II

Mental health

Meaning-concept-definition-characteristics - influential factors - biological factors - psychological factors - socio-economic and cultural factors

Unit III

Stress and its management

Meaning,definition causes of stress, major life changes and environmental events - consequence of stress, stress management techniques.

Unit IV

Part-a

Anger and its management;

Meaning, definition, nature-causes-symptoms and consequence of anger - physiological effects and psychological effects, techniques to control anger.

Part-b

Suicidal prevention

Unit V

Soft skills development - Presentation skill - Interpersonal skill - Body language

Text Book;

Mental health of rural youth

Reference;

Personality development-Elizabeth .B.Hurlock

SEMESTER – II MATHEMATICAL STATISTICS PRACTICAL ASMTP201T**OBJECTIVE:**

- ✓ To motivate the students to apply the statistical techniques in their respective major subjects.
- ✓ To make the students to understand the subject.

UNIT – I

Discrete distributions: Binomial distribution, Poisson distribution and Geometric distribution – Derivations of mean, variance and moment generation functions.

UNIT – II

Continuous distributions: Uniform (mean, variance and m. g. f.), Exponential (mean, variance and m. g. f.) and Normal distributions (m. g. f., characteristics and area problems). Sampling distributions: Student's t, F and χ^2 distributions (derivations only) and their relationships.

UNIT – III

Tests of Significance (small samples) based on t and F distributions with respect to mean, variance and correlation coefficient. Chi-Square distribution: Test for independence of attributes.

UNIT – IV

Tests of significance (large samples) – Proportion, Mean, Standard deviation and Correlation Coefficient.

UNIT –V

Analysis of Variance: One way and two way classifications. Design of experiments: CRD, RBD and LSD.

Text Books:

4. "Fundamentals of Mathematical Statistics" (11th edition – 2002), Gupta. S. C. and Kapoor. V. K., Sultan Chand & Sons, New Delhi.
5. "Statistical Methods" (32nd edition - 2004), Gupta. S. P., Sultan Chand & Sons, New Delhi.
6. "Fundamentals of Applied Statistics" (2nd edition – 1978), Gupta. S. C. and Kapoor. V. K., Sultan Chand & Sons, New Delhi.

Reference Books:

4. "Mathematical Statistics" (1st edition - 2002), Vittal. P. R., Margham Publications, Chennai - 17
5. "Introduction to Probability and Statistics" (2nd edition - 1939), Vijay Rohatgi. K. and Ehsanes Saleh. A.K., John Wiley & Sons, Inc., New York.
6. "Introduction to Theory of Statistics" (3rd edition - 2001), Alexander M. Mood, Franklin A. Graybill and Duance C Boes , Tata McGraw Hill Publishing Company Ltd., New Delhi.
7. "Fundamentals of Statistics - Volume II" (6th edition - 1990), Goon. A. M., Gupta. M. K. and Dass Gupta. B, The World Press Private Ltd., Calcutta.

St. Joseph's College, Cuddalore.

பருவம்: மூன்றாம் பருவம்

பாடக் குறியீட்டு எண்: LT303S

அலகு

பாடங்கள்

அலகு -1

- 1.1 சிலப்பதிகாரம் - வழக்குரை காதை
- 1.2 மணிமேகலை - பாத்திரம் பெற்ற காதை

அலகு - 2

- 2.1 சீவகசிந்தாமணி - கேமசரியார் இலம்பகம்
- 2.2 கம்பராமாயணம் - மந்தரை சூழ்ச்சிப் படலம்

அலகு - 3

- 3.1 பெரியபுராணம் - பூசலார் நாயனார் புராணம்
- 3.2 தேம்பாவணி - வளன் சனித்த படலம்
- 3.3 சீறாப்புராணம் - மானுக்குப் பிணை நின்ற படலம்

அலகு- 4 (இலக்கிய வரலாறு)

- 4.1 ஐம்பெருங்காப்பியங்கள்
- 4.2 கிறிஸ்துவக் காப்பியங்கள்
- 4.3 இசுலாமியக் காப்பியங்கள்
- 4.4 சோழர்காலக் காப்பியங்கள்
- 4.5 இரட்டைக் காப்பியங்கள்

அலகு - 5

- 5.1 பண்பலை வானொலி நிகழ்ச்சித் தொகுப்பு
- 5.2 வாடிக்கையாளர் சேவை மைய அலுவலர்
- 5.3 சுற்றுலா வழிகாட்டி
- 5.4 கடிதங்கள்
- 5.5 பொதுக்கட்டுரை

UNIT- I SPORTS

1. Swami and Friends – R.K. Narayan (Prose)
2. See Off the Shine – Imogen Grosberg (Poem)
3. The Sporting Spirit – George Orwell (Prose)

UNIT-II MASS MEDIA

1. Building an Internet Culture – Philip Agre (Prose)
2. Odds against Us – Satyajit Ray (Prose)
3. TV as Babysitter – Jerzy Kosinski (Prose)

UNIT – III BASIC GRAMMAR

1. Agreement of the Verb with the subject
2. Non – Finite Verbs
3. Strong and Weak verbs
4. The Auxiliaries
5. Anomalous Finites

UNIT – IV BASIC LANGUAGE SKILLS

1. Paragraph Writing
2. Phonetic symbols, transcription (words)
3. Idioms & Phrases:
 - i. List of Idioms: An absent minded person, apple- pie order, an armchair critic, a big shot, a burning question, a cock and bull story, crocodile tears, a flying visit, laughing stock, asquare deal, a tall order, birds of a feather, fish out of water, the lion’s share, storm in a tea cup.
 - ii. List of Phrases: Bear with, call on, call off, carry out, find out, give up, hand over, keep on, keep up, look after, set out, take over, turn down, wind up, work out.

Text

1. Elango, K. **Insights: A Course in English Literature and Language.** Hyderabad: Orient Black Swan Private Ltd, 2009.
2. Bhatnagar, R.P., and Bargava, Rajul. **English for Competitive Examinations.** Chennai: Macmillan, 2002.
3. David Green, **Contemporary English Grammar Structures and Composition.** Chennai: Macmillan, 2010.

Reference

1. Murphy, Raymond, **Essential English Grammar.** New Delhi: Cambridge UP, 2009. Jones; Daniel, **English Pronunciation Dictionary.** Singapore: Cambridge UP, 2009.

SEMESTER – III DIFFERENTIAL EQUATIONS MT305S**UNIT-I: EQUATION OF THE FIRST ORDER BUT OF HIGHER DEGREE:**

Equations Solvable for $\frac{dy}{dx}$ - Equations Solvable for x - Equations Solvable for y -

Equations homogenous in x and y – solving differential linear equation with constant coefficients.

UNIT – II: EQUATION OF THE FIRST ORDER BUT OF HIGHER DEGREE [Contd]:

Linear differential equation with variable coefficient, Equations reducible to the linear equation, simultaneous differential equations.

UNIT- III: TOTAL DIFFERENTIAL EQUATIONS & PARTIAL DIFFERENTIAL EQUATIONS:

Total Differential Equations – Partial differential equation of the first order, derivation of the Partial differential equations, Lagrange's method of solving the linear equation.

UNIT – IV: PARTIAL DIFFERENTIAL EQUATIONS[cont]:

Special methods : Standard forms $f(p, q) = 0$, $f(x, p, q) = 0$, $f(y, p, q) = 0$, $f(z, p, q) = 0$, $f(x, p) = f(y, p)$, Clairaut's Form, Charpit's method

UNIT – V: THE LAPLACE TRANSFORMS:

The Laplace Transforms – the laplace transform of periodic functions - Inverse Transform – solving differential equation using laplace transform

TEXT BOOK:

DIFFERENTIAL EQUATIONS AND ITS APPLICATIONS - S. Narayanan and T.K. Manickavachagom pillay S.Viswanathan printers & publishers pvt .Ltd-2011.

Unit-I: Chapters:4,5(pgs:60-88) ,Unit-II:Chapters:5,6 (pgs: 89-101, 125-129)

Unit-III: Chapter:11,12 (pgs:211-231) , Unit-IV:Chapters:12(pgs:232-246),

Unit-V: Chapter:9(pgs:161-199).

REFERENCE BOOKS:

- P.Kandasamy, K.Thilagavathy [2004], "Mathematics for B.Sc" Vol-,III, S.Chand & Company Ltd., New Delhi-55.
- 3. M.D.Raisighanian, [2001], "Ordinary and Partial Differential Equations", S.Chand and Co., New Delhi
- 4. S.Sudha [1998], "Differential Equations and Integral Transforms", Emerald publishers, Chennai.
- 5. P.R.Vittal [2004], "Differential Equations and Laplace Transform", Margham Publication, Chennai.
- 6. M.K.Venkataraman(1992)," Higher Engineering Mathematics: III-B", National Publishing Company, Chennai.

SEMESTER – III VECTOR ANALYSIS AND FOURIER ANALYSIS MT306**UNIT – I:**

DIFFERENTIAL VECTOR CALCULUS: Differentiation of a Vector – Geometrical Interpretation of the Derivative – Differentiation Formulae – Differentiation of dot and Cross Products – Partial Derivatives of Vectors – Differentials of Vectors.

UNIT – II:

GRADIENT, DIVERGENCE AND CURL: Vector Differential Operator Del – Gradient of a Scalar Function – Directional Derivative – Geometric Interpretation – Gradient of the sum of Functions; of the product of functions and of a function of function – Operations involving Del – Divergence of a Vector and its Physical Interpretation – Curl of a Vector and its Physical Interpretation – Expansion Formulae for Operators involving Del – Solenoidal and Irrotational.

UNIT – III:

VECTOR INTEGRATION: The Line Integral – Surface Integral – Volume Integral – Theorem of Gauss Divergence, Stoke's Theorem and Green's Theorem [Without proof] and Simple Problems.

UNIT – IV

FOURIER SERIES: Euler's Formulae – Conditions for Fourier Expansion – Functions having Discontinuity – Change of Interval – Odd and Even Functions – Expansions of Odd or Even periodic Functions – Half range series – Typical Wave Forms – Parseval's Formula.

UNIT – V:

FOURIER TRANSFORM: Definition – Fourier Integrals – Fourier Sine and Cosine Integral – Complex Form of Fourier Integral – Fourier Transform: Fourier Sine and Cosine Transforms – Finite Fourier Sine and Cosine Transforms [with out proof] – Properties of Fourier Transforms – Convolution Theorem for Fourier Transforms – Parseval's Identity for Fourier Transforms – [with out derivation]

Text Books:

1. P.R.Vittal [2004] Vector Calculus, Margham Publication, Chennai
2. P.R.Vittal [2004] Fourier Series and Fourier Transform. Margham Publication, Chennai.

Reference Books

1. S.Narayanan and T.K.Manicavachagom Pillay [2004] Calculus. S.Viswanathan Printers & Publishers Pvt.Ltd. Chennai.
2. B.S.Grewal. Higher Engineering Mathematics [2002], Khanna Publishers, New Delhi.
3. M.K.Venkataraman.(1992) Higher Engineering Mathematics, III-B, National Publishing Company., Chennai

SEMESTER-III ACCOUNTING FOR BUSINESS ACMT301S**UNIT-I: INTRODUCTION:****[20 Hours]**

Accounting meaning and definition –Branches of accounting – Accounting concepts and conventions – types of accounts – personal, Real and Nominal – Accounting rules – Journal –ledger – preparation of trial balance.

UNIT-II: FINAL ACCOUNTS:**[25Hours]**

Final accounts of sole trader – preparation of profit and loss account and balance sheet – various adjustments (only simple problems)

UNIT – III: FINANCIAL STATEMENT ANALYSIS:**[30Hours]**

Meaning of financial statements- functions of financial statements– Limitations of financial statements – Meaning of financial statement analysis-objectives of analysis-Theoretical aspect of types of financial statement analysis-Ratio Analysis- meaning-Advantages – limitations- classification of ratios-practical problems.

UNIT – IV: COST ACCOUNTING:**[30Hours]**

Meaning and definition – Types of costing –Elements of cost – Preparation of cost sheet and tenders. Marginal costing- Meaning and definition- features- advantages-limitations - Marginal and Absorption costing- cost volume profit analysis- Break Even analysis and Break even point- Applications of marginal costing.

(Key factor, Make or buy decision, export decision, Plant merger decision and sales mix decision)

UNIT – V: BUDGETING AND BUDGETARY CONTROL:**[15Hours]**

Meaning and definition of budget-Meaning and definition of budgeting-meaning of budgetary control-objectives- merits and demerits-Types of budget- Preparation of Sales, Production, materials, flexible, cash and Overhead budget.

Theory: 20 Problems: 80

TEXT BOOKS:

T.S.Reddy, Y.Hari Prasad Reddy, Financial and Management Accounting, Margham Publications, Chennai, Reprinted 2006.

SEMESTER – III ENVIRONMENTAL STUDIES EVS301

Unit I : Environmental studies and Natural resources

(20 Hrs)

Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.

Unit II: Ecosystems :

(20 Hrs)

Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem –

Unit III: Biodiversity:

(20 Hrs)

Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity – India as a mega diversity nation – hot spots – threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.

Unit IV: Environmental Pollution:

(20 Hrs)

Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami.

Unit V: Social Issues, Human population and the Environment:

(20 Hrs)

Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

Field work:

(20 Hrs)

1. Visit to a local area to document environmental assets – river / forest / grassland/mangrove.
2. Visit to a local polluted site – urban / rural / industrial / agricultural.
3. Study of common plants, insects, birds.
4. Study of simple ecosystems – pond, river, forest, etc.,
5. Practical work

Reference Books:

1. Joseph C.Daniel,2004. Principles of Environmental Science. Brightson's Publications,Chennai.
2. Agarwal, K.C. 2001 Environmental Biology, Nidi Publ. Ltd. Bikaner.
3. Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad - 380 013, India,
Email:mapin@icenet.net
4. Jadhav, H & Bhosale, V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi
5. Miller T.G. Jr. Environmental Science, Wadsworth Publishing Co.
6. Odum, E.P. 1971. Fundamentals of Ecology. W.B. Saunders Co. USA,
7. Sharma B.K., 2001. Environmental Chemistry. Geol Publ. House, Meerut
8. Trivedi R.K., Hand book of Environmental Laws, Rules Guidelines, Compliances and Standards. Vol I and II, Enviro Media9.Wanger K.D., 1998. Environmental Management. W.B. Saunders Co. Philadelphia, USA