

FOUNDATION COURSE
I. HUMAN VALUES AND PROFESSIONAL ETHICS
Common for BA/BCom/BSc/BBA/BCA Programmes
I Semester

Unit-I : Introduction to Value Education

1. Value Education, Definition, Concept and Need for Value Education
2. The Content and Process of Value Education
3. Basic Guidelines for Value Education
4. Self Explanation as a means of Value Education
5. Happiness and Prosperity as parts of Value Education

Unit-II : Harmony in the Human Being

1. Human Being is more than just the Body
2. Harmony of the Self ('I') with the Body
3. Understanding Myself as Co-existence of the Self and the Body
4. Understanding Needs of the Self and the Needs of the Body
5. Understanding the Activities in the Self and Activities in the Body

Unit-III : Harmony in the Family and Society and Harmony in the Nature

1. Family as a basic unit of Human Interaction and Values in Relationships
2. The Basics for respect and today's Crisis : Affection, Care, Guidance, Reverence, Glory, Gratitude and Love
3. Comprehensive Human Goal : The Five dimensions of Human Endeavour
4. Harmony in Nature : The Four orders in Nature
5. The Holistic Perception of harmony in Existence

Unit-IV : Social Ethics

1. The Basics for Ethical Human conduct
2. Defects in Ethical Human Conduct
3. Holistic Alternative and Universal order
4. Universal Human Order and Ethical Conduct
5. Human Rights violation and Social Disparities

Unit-V : Professional Ethics

1. Value Based Life and Profession
2. Professional Ethics and Right Understanding
3. Competence in Professional Ethics
4. Issues in Professional Ethics - The Current scenario
5. Vision for Holistic Technologies, Production System and Management Models

Reference Books :

1. A.N.Tripathy, Human Values, New Age International Publishers, 2003
2. Bajpai.B.L., Indian Ethos and Modern Management, New Royal Book Co., Lucknow, Reprinted, 2004
3. Bertrand Russell, Human Society in Ethics and Politics
4. Corliss Lamont, Philosophy of Humanism
5. Gaur.R.R., Sangal.R, Bagaria.G.P., A Foundation Course in Value Education, Excel Books, 2009
6. Gaur.R.R., Sangal.R, Bagaria.G.P., Teacher's Manual, Excel Books, 2009
7. I.C.Sharma, Ethical Philosophy of India, Nagin & Co., Julundhar
8. Mortimer.J.Adler, What Man has Made of Man
9. R.Subramanian, Professional Ethics, Oxford University Press
10. Text Book for Intermediate Ethics and Human Values, Board of Intermediate Education & Telugu Academy, Hyderabad
11. William Lilly, Introduction to Ethics, Allied Publishers

FOUNDATION COURSE

ENVIRONMENTAL STUDIES

Common for BA/BCom/BSc/BBA/BCA Programmes

I Semester

Unit-I : Natural Resources

The Multidisciplinary nature of Environmental Studies. Definition, scope and importance. Need for public awareness. Renewable and non-renewable resources: Natural resources and associated problems

Forest resources: Use and over-exploitation, deforestation, case studies.

Timber extraction, mining, dams and their effects on forests and tribal people

Water resources: use and over - utilization of surface and ground water, floods, drought, conflicts over water, dams- benefits and problems

Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies

Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer- pesticide problems, water logging, salinity, case studies

Energy resources Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, case studies

Land resources: Land as resources, land degradation, man induced landslides, soil erosion and desertification

a. Role of an individual in conservation of natural resources

b. Equitable use of resources for sustainable lifestyles

Unit-II : Ecosystems, Biodiversity and its conservation

Concept of an ecosystem

Structure and function of an ecosystem

Producers, consumers and decomposers

Energy flow in the ecosystem

Ecological succession

Food chains, food webs and ecological pyramids

Introduction, types, characteristic features, structure and function of the following ecosystem:- Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Introduction - Definition genetic, species and ecosystem diversity

Biogeographically classification of India

Value of biodiversity: Consumptive use, productive use, social, ethical aesthetic and option values

Biodiversity at global, National and local levels

India as a mega - diversity nation

Hot-spots of biodiversity

Threats to biodiversity habits loss, poaching of wildlife, man wildlife conflicts

Endangered and endemic species of India

Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity

Unit-III : Environmental Pollution

Definition

Causes, effects and control measures of :-

- a. Air pollution
- b. Water pollution
- c. Soil pollution
- d. Marine pollution
- e. Noise pollution
- f. Thermal pollution
- g. Nuclear pollution

Solid waste management: Causes, effects and control measures of urban and industrial wastes

Role of individual in prevention of pollution

Disaster management: floods, earthquake, cyclone and landslides

Unit-IV : Social Issues and the Environment

From Unsustainable to Sustainable development

Urban problems related to energy

Water conservation, rain water harvesting, watershed management

Resettlement and rehabilitation of people; its problems and concerns

Case studies

Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies

Wasteland reclamation, Consumerism and waste products

Environment protection Act

Air (Prevention and control of Pollution) Act

Water (Prevention and control of Pollution) Act

Wildlife Protection Act, Forest Conservation Act

Issues involved in enforcement of environmental legislation

Public awareness

Unit-V : Human Population and the Environment

Population growth , variation among nations

Population explosion- Family welfare Programme

Environment and human health

Human Rights

Value Education

HIV/AIDS

Women and Child Welfare

Role of Information Technology in Environment and human health

Reference Books :

1. Environmental Studies (for Non-Engineering Students) by Prof. B.Sudhakara Reddy, Prof. T.Shivaji Rao, Prof. U.Tataji and Prof. K.Purushotham Reddy, published by Maruthi Publications, Guntur. (prescribed by APSCHE)
2. Environmental Studies by Dr.M.Satyanarayana, Dr.M.V.R.K.Narasimhacharyulu, Dr.G.Rambabu and Dr.V.Viveka Vardhani, Published by Telugu Academy, Hyderabad.
3. Environmental Studies by R.C.Sharma, Gurbir Sangha, published by Kalyani Publishers.
4. Environmental Studies by Purnima Smarath, published by Kalyani Publishers.

SYLLABUS-SEMESTER – I

Unit – I

PROSE

1. A.P. J. Abdul Kalam: The Knowledge Society (from *Ignited Minds*)
2. C.Rajagopalachary: Good Bricks

Unit – II

POETRY

1. Robert Frost: The Road Not Taken
2. Nissim Ezekiel: Night of the Scorpion

Unit – III

SHORT STORY

1. Mulk Raj Anand : The Lost Child
2. Henry Lawson: The Loaded Dog

Unit – IV

ONE - ACT PLAY

- William Shakespeare: The Merchant of Venice (Court Scene – Act IV Scene -1)

Unit – V

LANGUAGE ACTIVITY

1. Classroom and Laboratory Activities
 - i. Single Sentence Answer Questions on Vocabulary (spelling), sound(pronunciation), sense (meaning), and syntax (usage)
2. Classroom Activity
 - i. Exercises in Articles and Prepositions
 - ii. Exercises in Tenses, Interrogatives and Question tags

Andhra Pradesh State Council of Higher Education
General Telugu Syllabus for B.A/ B.Com/B.Sc., Courses Under CBCS
W.e.f. 2015-16 (Revised in April - 2016)

SEMESTER - I

I. ప్రాచీన కవిత్వం:

- (అ) నన్నయ - గంగాశంకరుల కథ
ఆంధ్రమహాభారతం-ఆదిపర్వం-నాల్గవ ఆశ్వాసం (120-165)
“నరవరుడగు శంకనునకు” నుండి “దివ్య భూషణాలంకృత” వరకు
- (ఆ) తిక్కన - ద్రౌపది పరిదేవనం - ఆంధ్రమహాభారతం - ఉద్యోగపర్వం -
తృతీయ ఆశ్వాసం - (100-125)
“ధర్మనందను పలుకులు” నుండి “అని యూఱడిలగ బలికిన” వరకు

II ఆధునిక కవిత్వం

- (అ) గురజాడ - కన్యక
(ఆ) శ్రీశ్రీ - దేశచరిత్రలు

III కథానికలు

- (అ) పాపినేని శివశంకర్ - చింతల తోపు
(ఆ) బండి నారాయణస్వామి - సావుకూడు

IV వ్యాకరణం

- (అ) సంధులు - సవర్ణదీర్ఘ, గుణ, వృద్ధి, యణాదేశ, త్రిక, గ.స.డ.ద.వాదేశ, రుగాగమ, టుగాగమ, ఆమ్రేడిత, అత్వ, ఇత్వ, ఉత్వ సంధులు.
(ఆ) సమాసాలు - తత్పురుష, కర్మధారయ, ద్వంద్వ, ద్విగు, బహువ్రీహి.
(ఇ) అక్షర దోషాలు - దోషాలు సరిదిద్ది సాధు రూపాలు రాయాలి.

విద్యార్థి కృత్యాలు:

1. శ్రీశ్రీ కవిత దేశ చరిత్రలకు సంబంధించిన పేరడీలు సేకరించండి.
2. ముత్యాల సరాలు ఛందస్సులో రచనలు చేసే ప్రయత్నం చేయండి.
3. ఆనాటి ద్రౌపది పరిస్థితిని ప్రస్తుత సమాజ పరిస్థితికి అన్వయించండి.
(పైన సూచించిన విద్యార్థి కృత్యాలు కొన్ని ఉదాహరణలు మాత్రమే. ఇటువంటివి మరిన్ని ప్రయత్నించగలరు.)

SRI RAMA KRISHNA (AUTONOMOUS) DEGREE COLLEGE, NANDYAL
BA/B.COM&BSC Ist YEAR Ist SEMISTER
SUBJECT: SANSKRIT
SYLLABUS (2015-2016) REGULATIONS

I. प्राचीन साहित्यम्

1. अभिज्ञानम्

2. आतिथ्यम्

II. आधुनिक साहित्यम्

1. उन्नतिः

2. विविक्तपुष्पकरण्डः

III. गद्य काव्यम्

1. मूर्खता

IV. व्याकरणम्

1. शब्दाः - अजन्तशब्दाः

देव, कवि, भानु, धातृ, पितृ, गो, रमा, मति

2. धातवः

भू, गम्, ष्ठा, दृशिर्, लभ्, मुद, अस्, भाष्

3. सन्धयः

सवर्णदीर्घ, अयवायाव संधि, गुण, वृद्धि, यनादेश, श्चुत्व, ष्टुत्व,

अनुनासिक

4. समासाः

द्वन्द्व, तत्पुरुष, कर्मधारय, द्विगु

SRI RAMAKRISHNA (AUTONOMOUS) DEGREE COLLEGE, NANDYAL
BSC, FIRST YEAR MATHEMATICS SYLLABUS (2019)

SEMESTER-I

I Order DIFFERENTIAL EQUATIONS & SOLID GEOMETRY (Planes & Lines)

60 Hrs.

Unit – I (12 Hours) - Differential Equations of first order and first degree :

Linear Differential Equations; Differential Equations Reducible to Linear Form; Exact Differential Equations; Integrating Factors; Change of Variables.

Unit – II (12 Hours) - Orthogonal Trajectories :

Differential Equations of first order but not the first degree :

Equations solvable for P; Equations solvable for y; Equations solvable for x; Equations that do not contain - x (or y); Equations of the first degree in x and y – Clairauts Equation.

Unit - III (12 Hours) – The Plane :

Equation of plane in terms of its intercepts on the axis, Equations of the plane through the given points, Length of the perpendicular from a given point to a given plane, Bisectors of angles between two planes, Combined equation of two planes, Orthogonal projection on a plane.

Unit - IV (12 Hours) – The Line :

Equation of a line; Angle between a line and a plane; The condition that a given line may lie in a given plane; The condition that two given lines are coplanar; Number of arbitrary constants in the equations of straight line; Sets of condition which determine a line: The shortest distance between two lines; The length and equations of the line of shortest distance between two straight lines; Length of the perpendicular from a given point to a given line;

Reference Books :

1. Differential Equations and Their Applications by Zafar Ahsan, published by Prentice- Hall of India Learning Pvt. Ltd., New Delhi. Second Edition.
2. A text book of mathematics for BA/Bsc Vol.I by N.Krishna Murthy & Others, Published by S.Chand & Company, New Delhi.
3. Analytical Solid Geometry by Shanti Narayan and P.K.Mittal, Published by S.Chand & Company Ltd. 7th Edition.
4. A text book of Analytical Geometry of Three Dimensions, by P.K.Jain and Khaleel Ahmed, Published by Wiley Eastern Ltd., 1999.

Suggested Activities :

Seminar/ Quiz / Assignments / Project on Application of Solid Geometry in Engineering.

SRI RAMAKRISHNA DEGREE (AUTONOMOUS) COLLEGE::NANDYAL

I SEMESTER SYLLABUS

MECHANICS AND PROPERTIES OF MATTER

2019-20 Regulation

Time: 3 Hours

Max. Marks :60

1.VECTOR ANALYSIS

Scalar and vector fields, gradient of a scalar field and its physical significance. Divergence and curl of a vector field with derivations and physical interpretation, Vector integration (line, surface and volume), State and proof of Gauss and Stokes theorem.

2.MECHANICS OF PARTICLES

Laws of motion of variable mass system, motion of a rocket . Conservation of energy and momentum . Collisions in two and three dimensions . Concept of impact parameter, scattering cross-section . Rutherford scattering – derivation.

3. MECHANICS OF RIGID BODIES

Definition of rigid body , rotational kinematic relations, equation of motion for a rotating body, angular momentum . Euler equation, precession of a top . Gyroscope, precession of the equinoxes.

4. MECHANICS OF CONTINUOUS MEDIA

Elastic constants of isotropic solids and their relation, Poisson's ratio and expression for Poisson's ratio in terms of ν , n , k . Classification of beams, types of bending, point load, distributed load , shearing force and bending moment, sign conventions.

5. CENTRAL FORCES

Central forces, definition and examples , conservative nature of central forces, conservative force as a negative gradient of potential energy , equation of motion under a central force . Derivation of Kepler's laws . Motion of satellites.

6. SPECIAL THEORY OF RELATIVITY.

Galilean relativity , absolute frames . Michelson – Morley experiment , negative result . Postulates of special theory of relativity. Lorentz transformation, time dilation , length contraction, addition of velocities, mass –energy relation. Concept of four – vector formalism.

Sri Ramakrishna Degree (Autonomous) College:: Nandyal
I BSc/I B.Com (CA) I-Semester
Computer Fundamentals & Photoshop
Syllabus Copy

UNIT-I:

Introduction to computers, characteristics and limitations of computer, Block diagram of computer, types of computers, uses of computers, computer generations. Number systems: binary, hexa and octal numbering system

UNIT-II:

Input and output devices: Keyboard and mouse, inputting data in other ways, Types of Software: system software, Application software, commercial, open source, domain and free, Memories: primary, secondary and cache memory.

Unit -III

Introduction to Adobe Photoshop, Getting started with Photoshop, creating and saving a document in Photoshop, page layout and back ground, Photoshop program window-title bar, menu bar, option bar, image window, image title bar, status bar,ruler,paletts,tool box, screen modes, saving files, reverting files, closing files.

Unit –IV

Images: working with images, image size and resolution, image editing, colour modes and adjustments, Zooming & Panning an Image, Rulers, Guides & Grids- Cropping & Straightening an Image, image backgrounds ,making selections.

Working with tool box: working with pen tool, save and load selection-working with erasers-working with text and brushes- Colour modes- Levels - Cropping

Unit-V

Layers: Working with layers- layer styles- opacity-adjustment layers

Filters: The filter menu, Working with filters- Editing your photo shoot, presentation -how to create adds ,artistic filter, blur filter, brush store filter, distort filters,noise filters,pixelate filters, light effects, difference clouds, sharpen filters, printing.