Course Title: Human Values & Professional Ethics   **Course Code: 20LSCHP2**

No. of Hours: 30 Hrs.   **Credits: 2**

LTP: 200

Objectives:

- To understand the moral values that ought to guide profession.
- To develop a set of beliefs, attitudes and habits that graduate students todisplay concerning morality.

Course Outcomes:

CO1: Explain the types of values and their need

CO2: Display agency in furthering harmonious human relationships

CO3: Demonstrate professional ethics in education

UNIT- I: Introduction – Definition, Importance, Process & Classifications of Value Education   (5 hrs.)

1. Understanding the need, basic guidelines, content and process for Value Education
2. Understanding the thought provoking issues; need for Values in our daily li fe
3. Choices making – Choosing, Cherishing & Acting
4. Classification of Value Education: understanding Personal Values, Social Values, Moral Values & Spiritual Values.

UNIT: 2 Harmony in the Family – Understanding Values in Human Relationships   (5 hrs.)

1. Understanding harmony in the Family- the basic unit of human interaction
2. Understanding the set of proposals to verify the Harmony in the Family;
3. Trust (*Vishwas*) and Respect (*Samman*) as the foundational values of relationship
4. Present Scenario: Differentiation (Disrespect) in relationships on the basis of body, physical facilities, or beliefs.
5. Understanding the Problems faced due to differentiation in Relationships
6. Understanding the harmony in the society (society being an extension of family): *Samadhan* , *Samridhi*, *Abhay* , *Sah- astitva* as comprehensive Human Goals
7. Visualizing a universal harmonious order in society - Undivided Society (*AkhandSamaj*), Universal Order (*Sarvabhaum Vyawastha*)- from family to world family.

UNIT- III: Professional Ethics in Education   (5 hrs.)

1. Understanding about Professional Integrity, Respect & Equality, Privacy, Building Trusting Relationships.
2. Understanding the concepts; Positive co - operation, Respecting the competence of other professions.
3. Understanding about Taking initiative and Promoting the culture of openness.
4. Depicting Loyalty towards Goals and objectives.

Skill/ Hands – on: (15 hours)

1. Group Discussions
2. Seminars
3. Expert Talk
4. Video Presentation

Co- curricular Activities:

1. Visit to an Old Age Home and spending with the inmates for a day.
2. Conduct of Group Discussions on the topics related to the syllabus.
3. Participation in community service activities.
4. Working with a NGO like Rotary Club or Lions International, etc.

Prescribed Text Books:

1. R R Gaur, R Sangal, G P Bagaria, 2009, A Foundation Course in Human Values and Professional Ethics.
2. Bhatia, R. & Bhatia, A (2015) Role of Ethical Values in Indian Higher Education.

References Books:

1. Ivan Il l ich, 1974, Energy & Equity, The Trinity Press, W orcester, and Harper Collins, U
2. E.F. Schumacher, 1973, Small is Beautiful: a study of economics as i f people mattered, Blond & Briggs, Britain.
3. Sussan George, 1976, How the Other Half Dies, Penguin Press. Reprinted 1986, 1991
4. Donella H. Meadows, Dennis L. Meadows, Jorgen Randers, William W . Behrens III, 1972, Limits to Growth – Club of Rome' s report, Universe Books.
5. A Nagraj, 1998, Jeevan Vidya EkParichay, Divya Path Sansthan, Amarkantak.
6. P L Dhar, RR Gaur, 1990, Science and Humanism, Commonwealth Publishers.
7. A N Tripathy, 2003, Human Values,   New   Age   InternationalPublishers

Course Title: Entrepreneurship Development   **Course Code: 20LSCED2**
No. of Hours: 30 Hrs.   **Credits: 2**
LTP-200

Objectives:
- To inculcate an integrated personal Life Skill to the student.
- To develop entrepreneurial process of creating new business

Course Outcomes:
CO1: Demonstrate the concept of Entrepreneurship, its applications and scope
CO2: Determine various types of financial institutions that help the business atCentral, State and Local Level
CO3: Apply the knowledge for generating a broad idea to start an enterprise/start up

Unit - I: Entrepreneurship: (5 Hrs.)
Definition and Concept of entrepreneurship - Entrepreneur Characteristics – Classification of Entrepreneurs – Role of Entrepreneurship in Economic Development –Start-ups.

Unit - II: Idea Generation and Project Formulation: (5 Hrs.)
Ideas in Entrepreneurships – Sources of New Ideas – Techniques for Generating Ideas– Preparation of Project Report –Contents; Guidelines for Reportpreparation – Project Appraisal Techniques –Economic Analysis- Financial Analysis- Market Analysis.

Unit-III: Institutions Supporting and Taxation Benefits: (5 Hrs.)
Central level Institutions: NABARD; SIDBI – State Level Institutions – DICs – SFC- Government Policy for MSMEs - Tax Incentives and Concessions.

Hands On /Skill: (15 Hrs.)
- Group Discussion
- Debate
- Seminar
- Visit to an SSI and preparing of an outline Report
- Invited Lecture by a Bank Employee on the Bank Support to aStart Up.
- Chart showing tax concessions to SSI, MSME both direct and indirect.

Prescribed text books

1. Arya Kumar, Entrepreneurship, Pearson, Delhi
2. Poornima MCH, Entrepreneurship Development – SmallBusiness Enterprises, Pearson, Delhi

Reference books

1. Sangeetha Sharma, Entrepreneurship Development, PHI Learning
2. Kanishka Bedi, Management and Entrepreneurship, Oxford UniversityPress, Delhi
3. Anil Kumar, S., ET. al., Entrepreneurship Development, New AgeInternational Publishers, New Delhi

SYLLABUS

Course Title: Basic Computer Applications   **Course Code: 20LSCCA2**
No. of Hours: 30   **Credits: 2**

LTP: 200

Objectives

- To provide exposure to students in skill development towards basic office applications.
- To use the computer for basic purposes of preparing personnel / business letters, presentations and analyse data using charts.

Course Outcomes

CO1: Demonstrate basic understanding of computer hardware and software.
CO2: Create personal, academic, business documents, spreadsheets, charts and presentations.
CO3: Analyze data using charts and spread sheets.

Unit-I   **(5 Hrs.)**
Basics of Computers: Definition of a Computer - Characteristics of computers, Applications of Computers – Block Diagram of a Digital Computer – I/O Devices, hardware, software human ware, application software, system software, Memories - Primary, Auxiliary and Cache Memory.
MS Windows – Desktop, Recycle bin, My Computer, Documents, Pictures, Music, Videos, Task Bar, Control Panel.

Unit-II   **(5 Hrs.)**
MS-Word: Features of MS-Word - MS-Word Window Components - Creating, Editing, Formatting and Printing of Documents – Headers and Footers – Insert/ Draw Tables, Table Auto format – Page Borders and Shading – Inserting Symbols, Shapes, Word Art, Page Numbers, Mail Merge.

Unit-III   **(5 Hrs.)**
MS-Excel: Overview of Excel features – Creating a new worksheet, Selecting cells, Entering and editing Text, Numbers, Inserting Rows/ Columns – Changing column widths ells , Changing font sizes and colors, Insertion and row heights, Formulae, Referencing cof Charts, Auto fill, Sort.

MS-PowerPoint: Features of PowerPoint – Creating a Presentation - Inserting and Deleting Slides in a Presentation – Adding Clip Art/Pictures - Inserting Other Objects, Audio, Video - Resizing and scaling of an Object – Slide Transition – Custom Animation.

Skills / hands-on (15 Hrs.)

- Create two folders, Rename the folder, create two f iles each using notepad and paint, move the f iles from one folder to another folder, delete a file you have created, copy and paste text with in notepad.

- Create a letter head for your college with watermark, your resume, visiting card, brochure for your college activity, organization chart for your college, any advertisement, Prepare your Class time table.

- Prepare your mark sheet, Prepare your class time table, Prepare a salary bill for an organization, Sort the bill as per the alphabetical order of the names, Get online weather data and analyze it with various charts.

- Create a PowerPoint presentation for a student seminar.

Reference books:

1. Working in Microsoft Office – Ron Mansfield - TMH.
2. MS Office 2007 in a Nutshell –Sanjay Saxena – Vikas PublishingHouse.
3. Excel 2020 in easy steps-Michael Price – TMH publications

MARIS STELLA COLLEGE (AUTONOMOUS), VIJAYAWADA-8
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SYLLABUS

Course Title: Information &   Course Code: 20LSCIT2
         Communication Technology   Credits: 2
No. of Hours: 30   LTP: 200

Objectives

- To provide education in the use of Information and Communication Technology or ICT.
- To encourage higher-level thinking and creativity through ICT.

Course Outcomes

CO1: Apply skills to use various social networking sites, online forums,docs, spreadsheets, etc for communication, collaboration and research.

CO2: Learn a few GOI digital initiatives in higher education.

CO3: Acquaint with internet threats and security mechanisms.

UNIT-I   **(5 Hrs.)**

Fundamentals of Internet: What is Internet?, Internet applications, Internet Addressing – Entering a Web Site Address, URL, Searching the Internet, Browser – Types of Browsers, Introduction to Social Networking: Twitter, Tumblr, LinkedIn, Facebook, f lickr, Skype, yahoo, YouTube, WhatsApp.

UNIT-II   **(5 Hrs.)**

E-mail: Definition of E-mail -Advantages and Disadvantages –User Ids, Passwords, Email Addresses, Domain Names, Mailers, Message Components, Message Composition, Mail Management.

G-Suite: Google Drive, Google documents, Google spreadsheets, Google Slides and Google forms.

UNIT-III   (**5 Hrs.**)

Overview of Internet security, E-mail threats and secure E-mail, Viruses and antivirus software, Firewalls, Cryptography, Digital signatures, Copyright issues.

What are GOI digital initiatives in higher education? (SWAYAM, Swayam Prabha, National Academic Depository, National Digital Library of India, E-Sodh-Sindhu, Virtual labs, e- acharya, e-Yantra and NPTEL).

Skills / hands-on (15 Hrs.)

- Create your accounts for the above social networking sites and explore them, establish a video conference using Skype.
- Create an Email account for yourself - Send an email with two attachments to another friend. Group the email addresses using the address folder.
- Register for one online course through any of the online learning platforms like NPTEL, SWAYAM, Alison, Codeacademy, Coursera. Create a registration form for your college campus placement through Google forms.

Reference Books:

- In-line/On-line : Fundamentals of the Internet and the World Wide Web, 2/e – by Raymond Greenlaw and Ellen Hepp, Publishers : TMH
- Internet technology and Web design, ISRD group, TMH.
- Information Technology – The breaking wave, Dennis P.Curtin, Kim Foley, Kunai Sen and Cathleen Morin, TMH.

SYLLABUS

Course Title: Indian Culture & Science   **Course Code: 20LSCIS2**

No. of Hours: 30 Hrs.   **Credits: 2**

LTP: 200

Objectives

- To facilitate the understanding of Indian culture and assess the process of modernization in Indian society.
- To demonstrate national, moral and scientific temper.

Course Outcomes

CO1: Understand the evolution of Indian Culture.

CO2: Analyze the process of modernization of Indian society and culture from past to future.

CO3: Comprehend objective education and evaluate scientific development of India in various spheres and inculcate nationalist and moral fervor and scientific temper.

UNIT-I: Unity in Diversity in India   (5 Hrs.)

Coexistence of various religions since ancient times - Hinduism, Buddhism, Jainism and Atheism, and later Sikhism, Islam and Christianity; The Bhakti (Vishnavite and Saivaite) and Sufi Movements The concepts of seela, karuna, kshama, maitri, vinaya, santhi andahimsa; Achievements in Literature, Music, Dance, Sculpture andPainting - Craftsmanship in cloth, wood, clay,metal and ornaments,Cultural diversity, Monogamy, Family system, Important seasonal festivals.

UNIT-II: Social Reforms and Modern Society   (5 Hrs.)

Reforms by Basaveswara-Raja Rama Mohan Roy– Dayananda Saraswathi– Swamy Vivekananda–Mahatma Gandhi-B.R.Ambedkar -

Reforms in Andhra by Vemana, Veerabrahmam, Gurajada, Veeresalingam and Gurram Joshua (only reforms in brief, biographies not needed) Modern Society: Family unity, Community service, Social Harmony, Civic Sense,Gender Sensitivity, Equality, National Fervor .

UNIT- III: Science and Technology   (5   Hrs.)

Objectivity and Scientific Temper– Education on Scientific lines(Bloom's Taxonomy)-Online Education, Developments in Industry, Agriculture, Medicine, Space, Alternate Energy, Communications, Media through ages.

Skill/ Hands – on: (15 Hrs.)

1. Assignments, Group discussions, Quiz etc2. Invited Lecture by a local expert
3. Visit to Scientific institutions, local heritage sites, museums,industries, etc.

Reference Books:

1. History of India and Culture (Upto 1526 A.D), Telugu Academy
   2. History of India and Culture (1526 A.D to 1964), Telugu Academy3. Basham, A.L (ed), A Cultural History of India
   4. Hana S. Noor Al-Deen & J.A.Hendricks, Social Media : Usage andImpact
   5. Bipan Chandra, Aditya Mukherjee, Mridula Mukherjee, India After Independence
6. S.K.Thakur, ISRO: History and Achievements
   7. V. Ramakrishna, Social Reform Movement Andhra, VikasPublications.

Course Title: Elementary Statistics **Course Code: 20LSCES2**

No. of Hours: 30 **Credits: 2**

LTP: 200

Objectives

- To provide basic understating of general statistical tools and their elementaryapplications
- To create awareness on the Statistical System particularly in India.

Course Outcomes

CO1: Explain the scope and limitations of statistics, collection andrepresentation of data.

CO2: Interpret central tendency and dispersion measures to the given data.

CO3: Estimate the degree of relationship between variables using the conceptsof correlation and regression.

UNIT - I **(8 Hrs.)**

Meaning, scope and limitations of Statistics , Collection of data: Primary and Secondary, Classification and Tabulation, Construction of frequency distribution.

Graphical and Diagrammatic Representation: Histogram, Ogives and Frequencypolygon, Simple, Multiple Bar and Pie diagrams

UNIT-II **(10 Hrs.)**
Measures of Central Tendency:

Features of good average, Arithmetic mean, Median, Mode. Empiricalrelationship between Mean, Median and Mode.

Measures of Dispersion: Range, Quartile Deviation (QD), Mean Deviation(MD), Variance, Standard Deviation(SD), relationship between QD, MD and SD. Conceptsof Skewness and Kurtosis.

UNIT III **(7 Hrs.)**

Familiarization Of the concepts relating to Correlation and Linear Regression. Their applications in the real world.

Skill / Hands-on **(5 Hrs.)**
1. Practical case studies to know diagrammatic and Graphicalpresentation of data.
2. To Apply central tendency and dispersion methods to a real life data and to drawvalid conclusions from the data

Co-curricular activities

1. Problem Solving
2. Conducting quiz
3. Seminars/ Poster presentations

Prescribed Text Books

1. V.K.Kapoor and S.C.Gupta: Fundamentals of Mathematical Statistics,Sultan Chand & Sons, New Delhi
2. Statistical Methods, S.P. Gupta, Sultan Chand and Sons,New Delhi

Course Title: NCC - I   **Course Code: 20LSCNC2**

No. of Hours: 30 Hrs.   **LTP:200**   **Credits: 2**

Objectives

- To learn concepts of NCC, aims, ranks and honors.
- To understand the concept of Personality Development and SocialSkills.

Course Outcomes

CO1: Identify the concepts of NCC Motto, NCC Flag, Aims of NCC,Cardinal points of NCC.

CO2: Comprehend the concepts of Personality Development andLeadership.

CO3: Analyze the contribution of Youth towards Social Welfare .

Unit-I: Introduction to NCC   **(5 Hrs.)**

Introduction, NCC Motto, NCC Flag, Aims of NCC, Cardinal points ofNCC, Organization of defense forces in general, NCC Song, NCC pledge, Incentives of NCC, Ranks in Army, Navy and Air Force –Honors and Awards

Unit- II: Personality Development & Leadership   **(5 Hrs.)**

Introduction to Personality Development, Factors Influencing / Shaping Personality: Physical, Social, Psychological and Philosophical. Change Your Mind Set. Types of Leadership, Time Management, Interview Skills, Importance of Group / Team work, Influencing Skills, Sociability: Social skills, Etiquettes and Mannerism, Values / Code of Ethics.

Unit III: Social Service & Community Development Activities   (5 Hrs.)

Basics of Social Service, Contribution of Youth towards Social Welfare,NGOs and their Role and Contribution, Social Evils, Drug Abuse, Anti- Corruption awareness, Child labour, Save Girl Child, Counter Terrorism, Eradication of Illiteracy – Aids awareness program, Cancerawareness program.

Skill & Co-curricular Activities: (15 Hrs.)

1. Trekking
2. Cycle Expedition
3. Invited Lecture by NCC Officers, GCI, PI Staff, Adventure activitiesinstructor
4. Visit to Military Academy and NDRF

References:

Cadet's Hand Book- Common Subject, All Wings, by DG NCC, NewDelhi

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SYLLABUS

Course Title: Personality Development   **Course Code: 20LSCPD2**

No. of Hours: 30 Hrs.   **Credits: 2**

LTP: 200

Objective

- To cause a basic awareness about the significance of soft skills in professional and inter-personal communications
- To facilitate an all-round development of personality.

Course Outcomes

At the end of the course, students will be able to

CO1: Understanding of personality

CO2: Assess and enhance one's own personality Practice teamleadership through active group participation

CO3: Enhance Intra and Inter personal skills

Unit – I: (5 Hrs.)

Meaning of Personality – Explanations of Human Personality – Psychodynamic explanations – Social Cognitive Explanation – Big Fivetraits of Personality

Unit – II: (5 Hrs.)

Assessment of Personality - Projective& Self Report Techniques -Building Self Confidence – Enhancing Personality Skills

Unit – III:(5 Hrs.)

Leadership Characteristics – Types of Leaders – Importance of Leadership – Leadership Skills – Building and Leading Efficient Teams – Leadership Qualities of Abraham Lincoln, mahatma Gandhi, Pr akasam Pantulu, Dr. B. R. Ambedkar & J.R.D.Tata

Co-curricular Activities Suggested: (15 Hrs.)

1. Assignments, Group discussions, Quiz etc2.
Invited Lecture by a local expert

3. Case Studies (ex., on students behavior, local leaders etc.)

Reference Books

- Girish Batra, Experiments in Leadership, Chennai: NotionPress, 2018

- Mitesh Khatri, Awaken the Leader in You, Mumbai: Jaico Publishing House, 2013
- Carnegie Dale, Become an Effective Leader, New Delhi: Amaryllis, 2012
- Hall, C.S., Lindzey. G. & Campbell, J. B Theories of Personality.John Wiley & Sons,1998

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SYLLABUS

Course Title: Health and Hygiene   **Course code 20LSCHH2**
No of hrs :30   **Credits:2**
<center>LTP - 200</center>

Objectives:
 • To provide knowledge on health indicators and hygiene programmes in India
 • To enable disaster mitigation strategies, community health and mobile apps .

Course Outcomes:
  CO1: Gain importance of health, hygiene and nutrition for a healthy life,
            different health care programmes of India
  CO2: Health impact assessment by policies, plans and projects using
              quantitative   and qualitative techniques
  CO3: Importance of community and personal health & hygiene measures

Unit- I: Basics of Nutrition   5 Hrs.
1. Nutrition – definition, importance, Good nutrition and mal nutrition; Balanced Diet: Basics of Meal Planning
2. Carbohydrates –functions, dietary sources, effects of deficiency.
3. Lipids –functions, dietary sources, effects of deficiency.
4. Proteins –functions, dietary sources, effects of deficiency.
5. Brief account of Vitamins- functions, food sources, effects of deficiency,
6. Macro and micro minerals –functions, effects of deficiency; food sources of Calcium, Potassium and Sodium; food sources of Iron, Iodine and Zinc
 7. Importance of water– functions, sources, requirement and effects of deficiency.

**   Unit -II: Health   5 Hrs.**
 8. Health - Determinants of health, Key Health Indicators, Environment health & Public health; Health-Education: Principles and Strategies
9. Health Policy & Health Organizations: Health Indicators and National Health Policy of Govt. of India-2017; Functioning of various nutrition and health organizations in India viz., NIN (National Institution of Nutrition), FNB (Food and Nutrition Board), ICMR (Indian Council of Medical Research), IDA (Indian Dietetics Association),WHO-India, UNICEF-India
10. National Health Mission: National Rural Health Mission (NRHM) Framework, National Urban Health Mission (NUHM) Framework
11. Women & Child Health Care Schemes: Reproductive, Maternal, Newborn, Child and Adolescent Health (RMNCH+); Janani Shishu Suraksha Karyakaram (JSSK); Rashtriya Bal Swasthya Karyakram(RBSK); India Newborn Action Plan (INAP); Adolecent Heatlh- Rashtriya Kishor Swasthya Karyakram (RKSK)

12. Disaster Management – Containment, Control and Prevention of Epidemics and Pandemics – Acts, Guidelines and Role of Government and Public

Unit- III: Hygiene   **5 Hrs.**

13. Hygiene – Definition; Personal, Community, Medical and Culinary hygiene; WASH (Water, Sanitation and Hygiene) programme

14. Rural Community Health: Village health sanitation & Nutritional committee (Roles & Responsibilities); About Accredited Social Health Activist (ASHA); Village Health Nutrition Day, Rogi Kalyan Samitis

15. Community & Personal Hygiene: Environmental Sanitation and Sanitation in Public places

16. Public Awareness through Digital Media - An Introduction to Mobile Apps of Government of India: NHP, Swasth Bharat, No More Tension, Pradhan Mantri Surakshit Mantritva Abhiyan (PM Suman Yojana), My Hospital (Mera aspataal), India fights Dengue, JSK Helpline, Ayushman Bhava, Arogya Setu, Covid 19AP

17: Skill/Hands on activity-   15 hrs

1:Identification of nutrients in the different food items.

2.Study of health care schemes and importance.

3. Mobile apps:Public awareness to digital media

Prescribed text books:

1. x Bamji, M.S., K. Krishnaswamy & G.N.V. Brahmam (2009) Textbook of Human Nutrition(3rd edition) Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi

2. Swaminathan (1995)Food & Nutrition(Vol I, Second Edition) The Bangalore Printing &Publishing Co Ltd., Bangalore

3. Vijaya Khader (2000)Food, nutrition & health, Kalyan Publishers, New Delhi

4. Srilakshmi, B., (2010)Food Science, (5th Edition) New Age International Ltd., New Delhi

Reference Weblinks: https://nhm.gov.in/

♣ Health Impact Assessment - https://www.who.int/hia/about/faq/en/ (suggested information only)http://www.euro.who.int/__data/assets/pdf_file/0011/261929/Health-inImpact-Assessments-final-version.pdf?ua=1

♣ National Rural Health Scheme:

https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=969&lid=49

♣ National Urban Health Scheme:

https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=970&lid=137

♣ Village health sanitation & Nutritional committee

https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=149&lid=225 About Accredited Social Health Activist (ASHA)

https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=150&lid=226

♣ Village Health Nutrition Day

https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=152&lid=228

♣ Rogi Kalyan Samitis https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=153&lid=229

SYLLABUS

Course Title: Analytical Skills   **Course code: 20LSCAS2**

No. of Hrs: 30   **Credits:2**

LTP:200

Objectives

- To inculcate quantitative analytical skills and reasoning as an inherent ability
- To enhance competency in pursuing higher studies and jobs

Course Outcomes

CO1: Explain arithmetic and business concepts and develop the associated skills.

CO2: Exhibit acquired skills and competencies in the related areas.

CO3: Solve problems pertaining to quantitative ability, logical and verbal reasoning

UNIT I:(9 Hours)

Arithmetic ability

Algebraic operations, BODMAS, Fractions, Divisibility rules, LCM & GCD (HCF)

Verbal reasoning

Number Series, Coding & Decoding

UNIT II:(9 Hours)

Verbal reasoning

Blood relationship, Clocks, Calendars

Quantitative aptitude

Average, Ratio & Proportion, Problems on ages

UNIT III: (9 Hours)

Quantitative aptitude

Time & Distance,Time & Speed

Business computations

Percentages, Profit & loss, Partnership, Simple & Compound interest

Co-curricular Activities: (3 Hours)

- Quiz
- Problem solving sessions
- Group discussions

Prescribed text book

- Quantitative Aptitude for Competitive Examination by R.S. Agrawal, S.Chand Publications.

Reference Books

1. Analytical Skills by Showick Thorpe, S. Chand and Company Ltd., New Delhi

2. Quantitative Aptitude and Reasoning by R. V. Praveen, PHI Publishers

3. Quantitative Aptitude for Competitive Examination by AbhijitGuha,Tata McGraw Hill Publications.

Course Title: Environmental Education   **Course Code: 20LSCEE2**
No. of Hours: 30   **Credits: 2**
LTP: 200

Objectives:

- A Generic Course intended to create awareness that the life of human beings is an integral part of environment.
- To inculcate the skills required to protect environment from all sides.

Learning Outcomes: On completion of this course the students will be able to -
CO1: Understand the nature, components of an ecosystem and that humans are an integral part of nature.
CO2: Realize the importance of environment, the goods and services of a healthy biodiversity, dependence of humans on environment.
CO3: Evaluate the ways and ill effects of destruction of environment, population explosion on ecosystems and global problems consequent to anthropogenic activities.
CO4: Discuss the laws/ acts made by government to prevent pollution, to protect biodiversity and environment as a whole.
CO5: Acquaint with international agreements and national movements, and realize citizen's role in protecting environment and nature.

UNIT-I: Environment and Natural Resources   (6 Hrs.)
1. Multidisciplinary nature of environmental education; scope and importance.
2. Man as an integral product and part of the Nature.
3. A brief account of land, forest and water resources in India and their importance.
4. Biodiversity: Definition; importance of Biodiversity - ecological, consumptive, productive, social, ethical and moral, aesthetic, and option value.
5. Levels of Biodiversity: genetic, species and ecosystem diversity.

UNIT-II: Environmental degradation and impacts   (6 Hrs.) 1. Human population growth and its impacts on environment; land use change, land degradation, soil erosion and desertification.
2. Use and over-exploitation of surface and ground water, construction of dams, floods, conflicts over water (within India).
3. Deforestation: Causes and effects due to expansion of agriculture, firewood, mining, forest fires and building of new habitats.
4. Non- renewable energy resources, their utilization and influences. 5. A brief

account of air, water, soil and noise pollutions; Biological, industrial and solid wastes in urban areas. Human health and economic risks.

6. Greenhouse effect - global warming; ocean acidification, ozone layer depletion, acid rains and impacts on human communities and agriculture.

7. Threats to biodiversity: Natural calamities, habitat destruction and fragmentation, over exploitation, hunting and poach ing, introduction of exotic species, pollution, predator and pest control.

UNIT-III: Conservation of Environment   (6 Hrs.)

1. Concept of sustainability and sustainable development with judicious use of land, water and forest resources; afforestatio n.

2. Control measures for various types of pollution; use of renewable and alternate sources of energy.

3. Solid waste management: Control measures of urban and industrial waste.

4. Conservation of biodiversity: In- situ and ex-situ conservation of biodiversity.

5. Environment Laws: Environment Protection Act; Act; Wildlife Protection Act; Forest Conservation Act.

6. International agreements: Montreal and Kyoto protocols; Environmental movements: Bishnois of Rajasthan, Chipko, Silent valley.

Skill/ Hands – on: (12 hrs.)

1. Group Discussions 2. Quiz

3. Video Presentations 4. Seminars

Co-curricular Activities:

1. Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc

2. Visit to a local polluted site -Urban/ Rural/Industrial/Agricultural site.

3. Study of common plants, insects, birds and basic principles of identification.

4. Study of simple ecosystems-forest, tank, pond, lake, mangroves etc. 5. Case study of a Forest ecosystem or a pond ecosystem.

Prescribed Text Books:

1. ErachBarucha (2004) *Text book of Environmental Studies for Undergraduate courses* (Prepared for University Grants Commission) Universities Press.

2. PurnimaSmarath (2018) *Environmental studies* Kalyani Publishers, Ludhiana

Reference Books:

1. Odum, E.P., Odum, H.T. & Andrews, J. (1971) *Fundamentals of Ecology.* Philadelphia: Saunders.

2. Pepper, I.L., Gerba, C.P. &Brusseau, M.L. (2011). *Environmental and Pollution Science*. Academic Press.

3.	Raven, P.H., Hassenzahl, D.M. & Berg, L.R. (2012) *Environment. 8th edition*. John Wiley & Sons.

4.	Singh, J.S., Singh, S.P. and Gupta, S.R. (2014) *Ecology, Environmental Science and Conservation.* S. Chand Publishing, New Delhi.

5.	Sengupta, R. (2003) Ecology and economics: An approach to sustainable development. OUP.

6.	Wilson, E. O. (2006) *The Creation: An appeal to save life on earth.* New York: Norton.

7.	Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll (2006) *Principles of Conservation Biology.* Sunderland: Sinauer Associates,

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SYLLABUS

Course Title: Gender Studies **Course Code: 20LSCGS2**

No. of Hours: 30 Hrs.   **LTP: 200**   **Credits: 2**

Objectives

- To understand the concept of Gender and its social construction
- To appraise the role of education, employment and empowermentof women

Course Outcomes

CO1: Explain the concept of gender and its social construction

CO2: Outline the challenges faced by women and legal protection.

CO3: Explain the role of education and employment in women's empowerment.

UNIT-I: Introduction to Gender Studies   (5 Hrs.)

- Gender concepts
- Social construction of gender
- Gender and Sex
- Gender discrimination
- Gender stereotyping
- Gender roles
- Gender needs-practical and strategic.

UNIT-II: Women Education, Employment and Empowerment (5 Hrs.)

- Multiple roles of women
- Professional verses Familial roles
- Women employment verses women empowerment
- Social evils and legal provisions

UNIT III: Violence against Women   (5 Hrs.)

- Forms of violence
- Domestic violence
- Sexual harassment at work place
- Legal protection
- Legal enforcement machinery-police and judiciary

Skills/Hands-on: **(15 Hrs.)**

1. Study of portrayal of women in Mass media-Cinema, T.V. and print media.
2. Screening of relevant films
3. Study of relevant advertisements
4. Comparative study of old and new films/film songs/advertisements etc.

Reference Books:

1. Encyclopedia of Women's problems and their remedies-C.P.Yadav

2. Women's role in the family-Sharma Kanta
3. Violence against womem-M.K.Roy
4. Women and Politics-N.S.Nagar
5. Women and Marriage-Kumar Raj
6. Women and family welfare-Sushma Srivatsava.