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CERTIFICATE PROGRAMME IN PLANT TISSUE CULTURE & ITS APPLICATIONS SYLLABUS

THEORY	36 HOURS	2 CREDITS
COURSE INSTRUCTOR: Dr. C. KIRANMAI ASSISTANT PROFESSOR IN DEPARTMENT OF BIOTECHNOLOGY		
<p>Course Objectives: This course will give a brief understanding of various methods and applications involved in Plant Tissue Culture in crop improvement with the following objectives.</p> <ol style="list-style-type: none"> 1. To understand concepts and techniques in plant tissue culture, 2. To know concepts on production of secondary metabolites and its enhancement, <p>Course Learning Outcomes (CLO): On completion of this course, students should be able to</p> <ol style="list-style-type: none"> 1. Learn concepts and techniques in plant tissue culture, 2. Learn concepts of production of secondary metabolites and its enhancement, 3. Explain in vitro culture methods and applications, 		

UNIT-I: CONCEPTS & TECHNIQUES IN PLANT TISSUE CULTURE

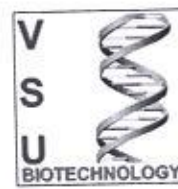
Totipotency; Tissue culture media; Plant hormones and morphogenesis; Direct and indirect organogenesis; Direct and indirect somatic embryogenesis; Applications of plant tissue culture – Micropropagation of field and ornamental crops; National certification and Quality management of TC plants; Virus elimination by meristem culture, meristem tip culture and micrografting; Virus indexing – PCR, ELISA; Nucleic acid hybridization and electron microscopy; Artificial seeds. In vitro germplasm storage and cryopreservation.

UNIT-II: IN VITRO CULTURE METHODS & APPLICATIONS

Callus culture and in vitro screening for stress tolerance; Large-scale cell suspension culture - Production of alkaloids and other secondary metabolites - techniques to enhance secondary metabolite production; Biotransformation, Protoplast culture - isolation and purification; Protoplast culture; Protoplast fusion; Somatic hybridization - Production of Somatic hybrids and Cybrids - Applications; Somaclonal and gametoclonal variations - causes and applications.

PRACTICALS

1. Preparation of plant tissue culture media
2. Surface sterilization of explants
3. Callus induction, propagation, organogenesis, transfer of plants to soil
4. Induction of somatic embryogenesis
5. Cytological examination of regenerated plants



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6. Establishment of cell suspension cultures for plant secondary metabolite production
7. Encapsulation of somatic embryos and production of synthetic seeds

Recommended Textbooks & References:

1. Adrian Slater, Nigel Scott and Mark Fowler. (2008). Plant Biotechnology - the Genetic Manipulation of Plants. Second Edition. Oxford University Press.
2. Bhojwani and Dantu. (2013). Plant Tissue Culture: an Introductory Text, Springer, New Delhi.
3. Bhojwani, S.S and Razdan. M.K. (2009). Plant Tissue Culture-Theory and Practice. Elsevier India Pvt. Ltd
4. Cassells, A. C and Peter B. Gahan. (2006). Dictionary of Plant Tissue Culture. Food Products Press. an imprint of the Haworth Press, Inc., New York-London-Oxford
5. Paul Christou and Harry Klee. (2004). Handbook of Plant Biotechnology, 2nd volume set, Wiley publisher.
6. Plant Tissue Culture- <https://link.springer.com/book/10.1007%2F978-81-322-1026-9>
7. Plant Tissue Culture, Development and Biology - <http://www.ebook777.com/plant-tissue-culturedevelopment-biotechnology/>

Medicinal Plants on Human Health

Course Objective:

- To identify the medicinal plants species in local area
- To identify the medicinal property and its use
- Documentation and cataloguing of newly identified plant species

Course Outcome

- To understand the flora of local community
- Commercial potential of the newly identified species

Module I

Medicinal Plants – Importance and Scope. Cultivation of medicinal plants – Processing and utilization. Chemical nature of crude drugs - Extraction, Preparation and preservation of crude drugs.

Traditional herbal teas. Herbs for women, Babies and children. Concepts of Herbal garden–Home, School Herbal gardens.

Module II

Classification and Estimation of primary metabolites- Carbohydrates, fatty acids, aminoacids and Proteins. Secondary Metabolites - Classification , General characters, Chemical nature, Extraction and Estimation methods for Glycosides, Tannins, Volatile oils, Resinous substances, Terpenoids – Phenolic compounds and Alkaloids.

Antioxidants - Role of antioxidants - Estimation of antioxidants – Ascorbic acid, α – Tocopherol.

Post-harvest technology in medicinal plants: scope and importance. Importance of herbal marketing -Future prospects and constraints of the herbal drug industry - Regulatory status of herbal medicine in India.

References

1. Farooqi, A.A. and B. S. Sreeramu, 2004. Cultivation of medicinal and aromatic crops. Revised edition, Universities Press (India) Private Limited, Hyderabad
2. WHO, 2002. Quality control methods for medicinal plant materials, World Health Organization, Geneva, A.I.T.B.S., Publishers and Distributors, New Delhi.
3. Harbone, J.B. 1998. Phytochemical Methods; A guide to modern techniques of plant analysis. 3rdEdn., Springer (India) Private Limited , New Delhi.
4. Halliwall, B. and J.M.Gutteridge. 1985. Free radicals in Biology and medicine. Oxford university press.



VIKRAMA SIMHAPURI UNIVERSITY

Kakatur - 524 324, SPS Nellore, Andhra Pradesh
College of Science & Technology

DEPARTMENT OF CHEMISTRY

Department : Chemistry

Course Title : "Life with chemistry and management of chemicals"

Course code : 21CHEVAC-01

Unit I Hazardous Waste : Management & Treatment

Hazardous Waste:

Identification, Classification and Handling

Hazardous Waste Management

Generation

Storage and collection

Transfer and transport

Processing

Disposal

Hazardous Waste Treatment

Physical and chemical treatment

Thermal treatment

Biological treatment

Unit II Chemistry in everyday life

Chemical Attraction :

Understanding chemical structures, naming and fragrance composition
Fragrant organic compounds from roses and oranges

New antibiotics :

Overview: an introduction to antibiotics
Applications of antibiotics

Textile Chemistry :

New fibres : Chemistry and Technology
Applications of Dyes
Nanotechnology in textiles

Chemistry in sport :

Understanding polymers (Sports Equipment)
The role of polymers in sport
Sports medicine and nutrition

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References :

- Freeman, M. H. 1988. Standard Handbook of Hazardous Waste Treatment and Disposal, McGraw-Hill Book Company, New York.
- Environmental Management in Developing Countries. 1995. Waste Management Vol II, Institute for Scientific Co-operation, Tubingen.
- Flinotoff, R. 1984. Management of Solid Wastes in Developing countries, WHO Regional Publications, South east Asia Series No 1.
- Tchobanoglous, G., Theisen, H., and Samuel A Vigil, 1993. Integrated Solid Waste Management, McGraw-Hill, Inc., New Delhi.
- Organic Chemistry, by Jonathan Clayden, Nick Greeves, Stuart Warren, Peter Wothers Contributor Jonathan Clayden Edition: reprint illustrated by Oxford University press, 2001.
- Principles of Organic Synthesis by Richard O.C Norman. Raymond Bonnett, James M. Coxon, Edition: 3, illustrated published by CRC Press 1993.
- Introduction to Polymer Chemistry: Charles E. Carraher Jr. 2017.
- Textbook of fabric science : Fundamentals to finishing by Sekhri sheema
- Advances in Dyeing and finishing of technical textiles by M.L.Gulrajani

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VIKRAMA SIMHAPURI UNIVERSITY COLLEGE: KAVALI - 524201
SPSR NELLORE (Dt), Andhra Pradesh, INDIA.
DEPARTMENT OF COMMERCE

Course Title: TECHNICAL SKILLS ON ACCOUNTING

Course Code: 201-CVAC-01

COURSE OBJECTIVES

- This course will introduce the student to the concepts and practices of computerized accounting using Tally Software.
- Students will obtain a working knowledge of Financial Statements, General Ledger, Accounts Receivable, Accounts Payable, Bank Reconciliation and Payroll, GST etc.

COURSE OUTCOMES

- Acquire skills in preparing company financial statements on accounting and inventory bases through Tally accounting software.
- Be skillful in recording interstate and intrastate supply and return of goods and in generating various GSTR reports.
- Equip oneself with skills in recording payments and generation of TDS and service tax reports.

UNIT – I: Fundamentals on Accounting Skills

Introduction to Accounting – Book-Keeping and Procedure of Accounting – Accounting concepts – Operating Accounts – Manual Accounts – Computerized Accounts.

UNIT – II: Worksheets

Features of MS Excel – Workbooks and Worksheets – Basic Formulas – Data Validation – Logical Functions – Creation of Charts – VLOOKUP – HLOOKUP.

Unit-III: Tally

Accounting – Groups – Process of Inventory in Tally – Cash Book Problems – Final Accounts Problems – Inventory Problems – Bank Reconciliation Statement – Purchase and Sales Orders – Bills of Materials – Budgets – Cost Center and Cost Category – Payroll Process in Tally – GST – TDS – Tally Shortcuts.

REFERENCE BOOKS:

1. Tally Prime with GST, Gaurav Agrawal
2. Tally Workbook – A Real Practical Accounting /GST/Inventory, Rakesh Sangwan.
3. Kiran Kumar, K. Tally 9, Laasya Publishers, Hyderabad.
4. Advanced Excel 2019: Training Guide, Manish Nigam.

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VIKRAMA SIMHAPURI UNIVERSITY
Kakatur - 524 324, SPS Nellore, Andhra Pradesh
College of Arts
DEPARTMENT OF ENGLISH

Programme: M.A. English
Course Title: Communication Skills
Course Code: 21- ENGVAC - 01

Course Objectives:

1. To help the students develop communication skills and selfconfidence
2. To motivate the students to acquire employability skills
3. To introduce various interview techniques to the students
4. To motivate the students to become good public speakers
5. To develop leadership qualities in the students
6. To guide the students how to tackle interviews
7. To help the students to enhance their writing skills
8. To teach the students how to write a good CV
9. To introduce various articles in writing to the students.

Course Outcomes:

1. This course aims at addressing the importance of communication skills through an interactive mode of teaching-learning process and by focusing on various dimensions of communication skills.
2. It'll also help the students to learn the language of communication, such as personal communication, social interactions and communication in professional situations such as interviews, group discussions and office environments, important reading skills as well as writing skills such as report writing, note-making etc.
3. It'll also enable the students to commit fewer errors while organizing, structuring and writing sentences as the course focusses on improving the grammatical skills of the students.

UNIT – I

1. **WRITING SKILLS:** Basics of writing, Writing paragraphs, Writing research articles, Report writing, Writing a CV, Importance of writing, Responding to the task, Coherence and cohesion, Lexical resource, Grammatical range and accuracy, Planning and preparation, Using examples, Writing general essays, Descriptive writing

UNIT- II

2. **READING COMPREHENSION:** Introduction to a variety of reading passages, Key to comprehension, tackling questions, Techniques for answering comprehension questions
3. **READING SKILLS:** Skimming, Scanning, Intensive reading, Extensive reading

REFERENCES:

1. Organizational Behaviour, Stephen .P. Robbins, 1 stEdition, Pearson, 2013
2. Brilliant- Communication skills, Gill Hasson, 1 stEdition, Pearson Life, 2011
3. The Ace of Soft Skills: Attitude, Communication and Etiquette for success, GopalaSwamy Ramesh, 5 thEdition, Pearson, 2013
4. Developing your influencing skills, Deborah Dalley, Lois Burton, Margaret, Greenhall, 1st Edition Universe of Learning LTD, 2010
5. Communication skills for professionals, Konar nira, 2ndEdition, New arrivals – PHI, 2011
6. Bringing out the best in people, Aubrey Daniels, 2 ndEdition, Mc Graw Hill, 1999

R. Balakrishnan

DEPARTMENT OF MARINE BIOLOGY

SYLLABUS FOR VALUE ADDED COURSE

MBVAC-01: ORNAMENTAL FISH BREEDING TECHNOLOGY

Total hrs: 36

UNIT -I: Introduction & Breeding of Ornamental fishes 12 hrs

Importance of ornamental fishes-Basic knowledge on profile of ornamental fishes in world; ornamental fish trade and exports in India and world; Scope and development of ornamental fish culture in India; Present status of ornamental fish breeding and culture in India.

Setting of aquariums- types of aquariums; accessories used in setting of aquaria;

Different varieties of exotic and indigenous ornamental fishes- Breeding of live bearers and egg layers and their breeding technology; Breeding and Nursery management of gold fish, Angel fish, Zebra fish etc.

UNIT-II: Ornamental fish farming & Disease/Health management: 12 hrs

Ornamental fish farming management- manuring; feed management-types of feeds; preparation of ornamental fish feeds; live feed culture for aquarium fishes.

Ornamental fish diseases- bacterial, viral, fungal, external parasitic and environmental stress diseases; Disease management- identification of different diseases; treatment methods.

Practicals: 12 hrs

1. Identification of different ornamental fishes
2. Identification of aquarium accessories with their use and maintenance.
3. Observation of different diseases in ornamental fishes
4. Design, construction and setting of aquariums
5. Identifications of males/females in ornamental fishes
6. Preparation and identification of different feeds for aquarium fishes

Reference books/Suggested readings:

Aeclrod, H.R. and Schultz, P.L., 1983. Hand Book of Tropical Aquarium Fishes. T.F.H. Publications, Hongkong. p.28-30.

Ahilan. B, Felix. N and Santhanam.R., 2008. Text book of Aquariculture. Daya Publishing House, New Delhi. p.157.

Ahilan. B, Felix. N and Jameson, J.D., 2009. Goldfish. Daya Publishing House, New Delhi. p.87.

Archana Sinha, Prem shankar Pandey and Surya Kumar Prabhakar 2008. Training Manual on Culture and Breeding of Ornamental Fish. Central Institute of Fisheries Education, Kolkatta centre.

Dey, V.K., 1993. Ornamental fishes. Marine Products Export Development Authority, Kochi. pp.7-10.

Joseph Smart . 2001. Goldfish varieties and genetics. Fishing News Books. USA p 216.

Bhat, B.V., 2008. Export oriented aquaculture in India: An overview. Fishing Chimes, 27 (10/11): 51-58.

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DEPARTMENT OF BUSINESS MANAGEMENT

Course Code: 21-BMVAC-01

Title of the course: Business Analysis

UNIT I: Introduction to Business Analysis, Business change life cycle, principles of Business analysis, Role of Business Analyst, Business competency, T- shaped Professional, Areas of business analysis competency, Business change life cycle.

UNIT II: Strategic context of Business analysis, PESTLE to analyze external environment, VMOST technique to analyze internal environment, Elements of Performance Measurement: Critical Success Factors, KPIs, SWOT analysis, Techniques of strategy Execution,

Business Analysis Service Framework (BASF): Situation investigation and problem analysis, Feasibility assessment and business case development, Business process improvement, Requirements definition, Business acceptance testing, Business change deployment, Stakeholder engagement.

References:

1. Business Analysis – Debra Paul and James Cadle, Fourth Edition, Publisher: BCS
2. Business Analysis Techniques – Paul Turner, James Cadle and Debra Paul, 3rd edition, BCS.
3. The Business Analysis Handbook- techniques and questions to deliver better business outcomes- Helen Winter


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DEPARTMENT OF TOURISM MANAGEMENT

Department: Tourism Management

Course Title: TRAVEL AND TOUR GUIDE

Course Code: 21-MBTVAC-01

Course Outcomes:

By successful completion of the course, students will be able to:

1. Understand the basic tourism aspects
2. Comprehend the requirements, role and responsibilities of profession of a Tourist Guide
3. Apply the knowledge acquired in managing different groups and guiding in a tour
4. Explain basic values related to tourism and heritage
5. Understand Itinerary and other terms used in itinerary

UNIT – I (15 Hours)

Tourism – Definition of Tourism - Characteristics of Tourist Places – Guidance in Tourism - Meaning of Guidance – Types of Tour Guidance - Government/Department Regulations - Types of Guides – Characteristics of a Guide - Duties and Responsibilities of a Guide - The Guiding Techniques –Guide’s personality- Training Institutions – License – Leadership and Social Skills - Presentation and Communication Skills - Working with different age and linguistic groups - Working under difficult circumstances – Precautions at the site -Relationship with Fellow Guides and Officials.

UNIT – II (15 Hours)

Understanding Itinerary – Describing tour itinerary to tourists –Guest Relationship Management- Personal and Official - Arrangements to Tourists – Coordinating transport - VISA/Passport - Accident/Death -Handling Guests with Special Needs/ Different Abilities –Additional skills required for Special/Adventure Tours - Knowledge of Local Security and Route Chart – Personal Hygiene and Grooming - Checklist - Code of Conduct

Course Activities: (06hrs)

1. Assignments, Group discussion, Quiz etc.
2. Invited lecture/training by local tourism operators/expert/guides

Reference Books:

1. Jagmohan Negi (2006); Travel Agency and Tour Operations, Kanishka Publishers, New Delhi
2. Mohinder Chand (2009); Travel Agency and Tour Operations: An Introductory Text, Anmol Publications Pvt. Limited, New Delhi
3. Pat Yale (1995); Business of Tour Operations, Longman Scientific & Technical, New Delhi
4. Websites on Tourism guidance

M. Thyagaraj

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DEPARTMENT OF TOURISM MANAGEMENT
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DEPARTMENT OF MICROBIOLOGY

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CERTIFICATE PROGRAMME IN INFECTIOUS DISEASES

UNIT-I: SOCIETY & INFECTIOUS DISEASES


Definition – Infectious diseases; Critical factors in the emergence or re-emergence of infectious diseases; Disease emergence and transmission of infectious diseases; Impact of infectious diseases on society; Global governance and public health preparedness and response; International efforts to prevent and control infectious diseases. Challenges in infectious disease research.

UNIT-II: INFECTIOUS ORGANISMS

Zoonotic, protozoan and vector-borne infectious diseases; Specific agents of emerging infectious diseases – Ebola, HIV/AIDS, HTLV, Influenza, MRSA, Norovirus, SARS-CoV-2 and COVID-19, SARS and MERS, Henipaviruses (Nipah and Hendra), Smallpox, Tuberculosis, Tularemia, Lyme disease, Brucellosis, Malaria, Chikungunya, Dengue, West Nile, Yellow Fever, Zika; Pathogens of pandemic potential and pathogens of critical regional importance.

Recommended textbooks & References

1. Bennett and Brachman's Hospital Infections, ed.6 by William R. Jarvis (2014) Lippincott Williams & Wilkins.
2. Essentials of Clinical Infectious Diseases, Second Edition. by William F. Wright (2018) Springer.
3. Foundations of Infection Control and Prevention by Christine Mcguire-Wolfe (2018) JB Learning.
4. Harrison's Infectious Diseases, ed.3 by Dennis L. Kasper; Anthony S. Fauci (2017) McGraw-Hill Education.
5. Hunter's Tropical Medicine and Emerging Infectious Disease, ed. 10 by Timothy P. Endy; Tom Solomon; David R. Hill; Naomi Aronson (2020) Elsevier.
6. Infectious Disease Epidemiology, 3rd ed. by Kenrad E. Nelson; Carolyn Williams (2014) JB Learning.
7. Infectious Diseases. ed.4 by Jonathan Cohen; William G. Powderly; Steven M. Opal (2017) Elsevier.
8. Introduction to Clinical Infectious Diseases by Joseph Domachowske (Editor) (2019) Springer.
9. Krasner, R. (2010). The Microbial Challenge: Science, Disease, and Public Health (3rd EDITION) (2013) JB Learning.
10. Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases, ed.9 by John E. Bennett; Raphael Dolin; Martin J. Blaser (2020) Elsevier.
11. Tropical Infectious Diseases: Principles, Pathogens and Practice, 3rd ed. by Richard L. Guerrant; David H. Walker; Peter F. Weller (2011) Saunders
12. Vaccines for Biodefense and Emerging and Neglected Diseases by Alan D. T. Barrett; Lawrence R. Stanberry (2009) Academic Press.


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VIKRAMA SIMHAPURI UNIVERSITY, NELLORE

DEPARTMENT OF SOCIAL WORK

Add on Course- Life skills

UNIT- 1

Overview of Life Skills: Meaning and significance of life skills, Life skills identified by WHO: Self-awareness, Empathy, Critical thinking, Creative thinking, Decision making, problem solving, Effective communication, interpersonal relationship, coping with stress, coping with emotion. Life skills for professionals: positive thinking, right attitude, attention to detail, having the big picture, learning skills, research skills, perseverance, setting goals and achieving them, helping others, leadership, motivation, self-motivation, and motivating others, personality development, IQ, EQ, and SQ

UNIT-2

Self-awareness: definition, need for self-awareness; Coping with Stress and Emotions, Human Values, tools and techniques of SA: questionnaires, journaling, reflective questions, meditation, mindfulness, psychometric tests, feedback. Stress Management: Stress, reasons and effects, identifying stress, stress diaries, the four A's of stress management, techniques, Approaches: action-oriented, emotion oriented, acceptance- oriented, resilience, Gratitude Training, Coping with emotions: Identifying and managing emotions, harmful ways of dealing with emotions, PATH method and relaxation techniques. Morals, Values and Ethics: Integrity, Civic Virtue, Respect for Others, Living Peacefully. Caring, Sharing, Honesty, Courage, Valuing Time, Time management, Cooperation, Commitment, Empathy, Self-Confidence, Character, Spirituality, Avoiding Procrastination, Life skills for enrichment for life.

D.A. Kusum
27/10/2022

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Reference Books

1. Shiv Khera, "You Can Win", Macmillan Books, New York, 2003.
2. Barun K. Mitra, "Personality Development & Soft Skills", Oxford Publishers, Third impression, 2017.
3. ICT Academy of Kerala, "Life Skills for Engineers", McGraw Hill Education (India) Private Ltd., 2016.
4. Caruso, D. R. and Salovey P, "The Emotionally Intelligent Manager: How to Develop and Use the Four Key Emotional Skills of Leadership", John Wiley & Sons, 2004.
5. Kalyana, "Soft Skill for Managers"; First Edition; Wiley Publishing Ltd, 2015. 6. Larry James, "The First Book of Life Skills"; First Edition, Embassy Books, 2016.

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DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC ADMINISTRATION
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PS&PA-01 Human Rights: Indian Perspective (Value Added Course)

Every human being possesses certain basic, inherent and inalienable rights. Human rights are essential for the physical, mental, moral and spiritual upliftment of human personality. Human rights are colour blind and know no barrier. The evolution of the human rights can be traced to the early human civilization. However, on account of tyranny, oppression and barbarism, human rights were grossly abused from time to time. Even then, whenever the human rights were massively violated, each time the human rights were revived with more strength and vigour. Freedom struggles, revolutions are standing examples of the human rights movements in the world. The establishment of the UN Charter in 1945 and subsequent adoption and incorporation of human rights in various international declarations, conventions, treaties, regional conventions, national constitutions and legislation, judicial interpretations reflect the magnitude of the significance of promotion and protection of human rights in the world.

Thus the objectives of the PS&PA-01 are:

- i) To understand the meaning and concept of human rights and its gradual development,
- ii) To know and understand human rights in theoretical and historical perspective,
- iii) To examine and assess the global efforts made to promote and protect human rights in the world, iv) To critically evaluate the measures taken at national level to promote and protect human rights in India, and
- v) To assess the role of individual groups and human right institutions such as media, press, and Human Right Commission in the effective realization of human rights in India.

Course layout

WEEK	TOPICS
Week-1	HISTORICAL AND PHILOSOPHICAL PERSPECTIVE:- Human Rights : Evolution of the Idea, Human Rights : Theoretical/Philosophical Foundation, Human Rights: Different Perspectives (Natural Rights, Positivist, Libertarian and Marxist), Human Rights : The Indian Perspective THE INDIAN TRADITIONS:- Western and Non-Western Traditions: A Comparison Indian Traditions of Human Rights, Buddhist Traditions of Rights Hindu Traditions: The Vedic Concept, Hindu Politico-Religious Traditions: Post-Vedic Notion, Contribution of Asoka and Akbar, Sufi-Bhakti Traditions, Traditions of Sikhism, Constitutional Framework of Protective Discrimination.
Week-2	FREEDOM STRUGGLE AND HUMAN RIGHTS:- Background, The Beginnings, National Movement and Human Rights, Programmatic Content, Making Demands from the government, Struggling for Human Rights, Practising Human Rights, Struggles for Social Transformation, Struggle Against Caste Oppression

	CONSTITUTIONAL PROVISIONS ON HUMAN RIGHTS AND DUTIES:- Human Rights in India, The Constituent Assembly, Fundamental Rights, Right to Equality, Right to Freedom, Right Against Exploitation, Right to Freedom of Religion, Cultural and Educational Rights, Right to Constitutional Remedies, Directive Principles of State Policy, Socio-Economic Rights, Gandhian Principles, Directives for General Welfare and Governance, Fundamental Duties.
Week-3	UNIVERSAL DECLARATION OF HUMAN RIGHTS (UDHR) AND THE UN COVENANTS:- The Universal Declaration of Human Rights, Provisions of the Universal Declaration, Significance of the Universal Declaration, The International Covenant on Civil and Political Rights (ICCPR), Provisions of the ICCPR, Implementation of the ICCPR, The International Covenant on Economic, Social and Cultural Rights (ICESCR), Provisions of the ICESCR, Implementation of the ICESCR, The Interdependence Between ICCPR and ICESCR, The Significance of the International Bill of Human Rights.
	MAJOR CONVENTIONS AND DECLARATIONS:- International Convention on the Elimination of All Forms of Racial Discrimination (ICERD), Provisions, International Convention on the Elimination of All Forms of Discrimination Against Women (CEDAW), Provisions, Problems, Convention against Torture and other Cruel, Inhuman and Degrading Treatment or Punishment (CAT)
Week-4	HUMAN RIGHTS VIOLATIONS:- Major Types of Human Rights Violations, Slavery, Torture, Genocide, Problem of Child Soldiers, Disappearances, MNCs and Human Rights, Human Rights Violation and Terrorism, Violations of Women's Rights and Violence against them, Other Gross Violations: A Global Snapshot, Mechanisms to deal with Human Rights Violations.
	CONTEMPORARY DEBATES ON HUMAN RIGHTS:- The Primacy of a Set of Rights, Interdependence between ICCPR and ICESCR, Universalism and Cultural Relativism, Minority Rights: Problem of Definition, Rights of Indigenous Groups, Disabled or Differently-abled?, Euthanasia: The Right to Die with Dignity.
Week-5	RIGHTS OF WOMEN:- Origins of Woman's Question, Three Waves of Feminism, Liberal Feminism Socialist/Marxist Feminism, Radical Feminism, Post-Modern Feminism, Eco-Feminism.
	RIGHTS OF CHILDREN:- Childhood: Various Aspects, Childhood in Ancient India, Modern Concept of Childhood Rights of the Child – An Overview, Legal Definition of a Child, Constitution of India and the Child, Present Legal Framework, UN and the Child, The UN Convention on the Rights of the Child (CRC) International Instruments and India, India's Courts and the Child, Juvenile Justice in India, Policies and Implementation, Situation of Children in India, Child Population, Adverse Sex Ratio, Children's Health, Child Education, Child Labour, Children with Disabilities, Children in Especially Difficult Circumstances, Progress in Children's Rights, Looking Ahead.
Week-6	INSTITUTIONAL MECHANISMS TO PROTECT HUMAN RIGHTS:- National Human Rights Commission, State Human Rights Commissions, National Commission for Women, National Commission for Minorities, National Commissions for SCs, STs and Backward Classes, Civil Society, Media and Non-governmental Organisations.
	RIGHTS OF MINORITIES AND THE MARGINALISED:- Rights of Minorities, Constitutional Provisions, Freedom of Religion, Rights for Protection of Cultures and Languages, Other Provisions, Right of Scheduled Castes and Tribes, Constitutional Provisions, National Commissions for SCs and STs, Other Backward Classes


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DEPARTMENT OF SOCIAL WORK
Vikrama Simhapuri University: Nellore

Women Development and Empowerment
Course Content

Women Status and Development: Present status of women, Impediments to women's development. Gender and identity; Basic concepts in gender studies-Gender discrimination, Need of Gender Sensitization, **Women and Development:** Changing Scenario and dynamics of Women -Women education, Women and Health, Women and Economic development-Entrepreneurship, Microfinance, Self Help Groups, Capacity Building Programmes, Self-Employment programmes for women, Women Political Participation, Information Communication Technology and Women development – Cyber crime

Strategic Approach for Women Empowerment

Meaning, concept, nature, objectives, determinants of women empowerment, problems & issues of women empowerment-reality of women empowerment in the era of globalization, **Programmes &**

Techniques of Women Empowerment : Constitutional and other legal provisions for women empowerment, Convention on Elimination of All From Discrimination against Women (CEDAW), National Policy for women empowerment –2001, National Commission for Women, Women welfare programmes, NGO's for women empowerment, Initiatives for women protection in Andhra Pradesh –AP State Mahila commission, One Stop Centre, Dhisa Police Stations and Dhisapp

1. Chaudhari D. Paul, (1983) – Social Welfare Administration, Delhi: Atma Ram & Sons, New Delhi
2. Goel, S.L. & Jain, R.K. (1988) – Social Welfare Administration Vol. I & II, New Delhi: Deep and Deep Publications,
3. Ram Ahuja (1998)-Violence against Women, Rawat publications, New Delhi
4. Chaudary D. Paul. (1992)- Women welfare and Development, South Asia Books, New Delhi
5. Gokhale S.D. (1979)- Administration on Child Welfare Services in India-Sage publications, New Delhi.

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Value Added Course

Environmental Ethics

- I. Environmental Ethics – Introduction to Ethics and Environmental Ethics, Environmental Ethics Philosophy and their Importance, Environmental Ethics and Old Traditions, Principles of EE – Anthropocentrism, Non-Anthropocentrism, Biocentrism, Holism, Ecocentrism, Resourceism, Speciesism, Modern Considerability, Instrumental Value, Intrinsic Value, Aesthetic Value.
- II. Culture and Heritage -Cultural Traditions of Nature Conservation in India, Ethical Issues and Possible Solutions.
- III. Ecological Conservation – Ecosphere and Ecosystem, Species and Culture, Individual Responsibility, Ethics in Biodiversity Conservation and Management.
- IV. Environmental Ethics and Sustainable Development – Environmental Pollution, Perspectives, Problems and Preventions, Dynamics of Water Crisis in India and Conservation Strategies, Impact of Climate Change.
- V. Environmental Laws and Global Issues - Pollution Act, Animal Liberation or Animal Right, Animal Welfare

References:

1. Gewirth, A. —Human Rights and Future Generations! in Boylan, Michael (ed.), Environmental Ethics, (New Jersey: Prentice Hall, 2001): 207-211.
2. Holmes, R. „Environmental Ethics: Values In and Duties to the Natural World“ in F Herbert Bormann and Stephen R Kellert (eds), Ecology, Economics, Ethics: The Broken Circle (1991) 73.
3. Benson, John, Environmental Ethics: An Introduction with Readings, (London: Routledge, 2001).
4. Zimmerman, Michael E.; Callicott, J. Baird; Sessions, George; Warren, Karen J.; and Clark, John (eds.), Environmental Philosophy: From Animal Rights to Radical Ecology, (New Jersey: Prentice Hall, 2nd ed., 1998).
5. UNEP (2006) Environmental Education, Ethics and Action. Getting Started. UNEP/Showick.

**పినాకినీ సత్యాగ్రహ (గాంధీ) ఆశ్రమం పల్లిపాడు మరియు
విక్రమ సింహపురి విశ్వవిద్యాలయం కాకుటూరు సంయుక్త ఆధ్వర్యంలో
సర్టిఫికేటు కోర్సు - గాంధీ ఆలోచనలు (గాంధీ థాట్స్)**

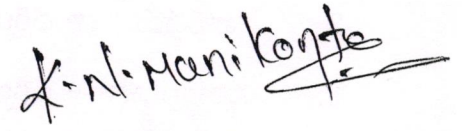
పాఠ్య ప్రణాళిక:

ప్రాఫెసర్

- | | |
|--|---|
| 1. మహాత్మా గాంధీజీ బాల్యం | - శ్రీజయప్రకాశ్ |
| 2. గాంధీజీ విద్యాభ్యాసం(భారతదేశం, ఇంగ్లాండు దేశాలలో) | - డా॥ శ్రీ సి.రాజారాం |
| 3. "బారిష్టరు" గా దక్షిణాఫ్రికా దేశంలో గాంధీజీ జీవితం. | - డా॥ శ్రీమతి టి.విమలా |
| 4. సత్యాగ్రహిగా - దక్షిణాఫ్రికాలో గాంధీజీ | - డా॥ శ్రీ కె.లక్ష్మీనారాయణ రెడ్డి ★ |
| 5. గాంధీజీ మతాలతో పరిచయం | - శ్రీ రొంపిచెర్ల శివరామయ్య |
| 6. గాంధీజీ పై గురువుల ప్రభావం | - శ్రీమతి గూడూరు లక్ష్మి Jan |
| 7. గాంధీజీ ఆశ్రమ జీవిత అనుభవాలు | - శ్రీమతి గూడూరు లక్ష్మి Jan |
| 8. స్వాతంత్ర్య ఉద్యమ కాలంలో గాంధీజీ పాత్ర | - డా॥ శ్రీ జి.సునీల్, పొలిటికల్
సైన్స్ డిపార్టుమెంట్. |
| 9. సప్తపాపాలు - ఏకాదశవ్రతాలు - గాంధీజీ విధానాలు | - శ్రీ టి.సుకుమార్ రెడ్డి |
| 10. గాంధీజీ నిర్మాణాత్మక కార్యక్రమాలు | - శ్రీ టి.సుకుమార్ రెడ్డి |
| 11. సత్యం - అహింస | - డా॥ శ్రీ బి.ప్రభాకరరావు,
పొలిటికల్ సైన్స్ డిపార్టుమెంట్. |
| 12. స్త్రీ సాధికారత పై గాంధీజీ | - డా॥ శ్రీమతి కె.సునీత, సోషల్
వర్క్ |
| 13. గాంధీజీ విద్యా విధానం | - డా॥ శ్రీమతి ఆర్. మధుమతి,
సోషల్ వర్క్ |
| 14. ప్రపంచీకరణ - గాంధీజీ | - డా॥ శ్రీ వి.గోవిందు, పొలిటికల్
సైన్స్ డిపార్టుమెంటు |
| 15. ధర్మ కర్తవ్యం - (ట్రస్టీషిప్) | - డా॥ శ్రీ బి.ప్రభాకర్ రావు |

16. ఆర్థిక స్వావలంబన - స్వదేశీ స్వయం
ఉపాధిపై గాంధీజీ విధానాలు -- డా॥ శ్రీ పి.సుబ్బరామరాజు
ఐ/సి. హెడ్
17. సర్వోదయం - అంత్యోదయం ✓ - డా॥ శ్రీ వి.గోవిందు, పొలిటికల్ సైన్స్
డిపార్టుమెంట్ (B.V.S.R)
18. గాంధీజీ మతం - రాజకీయం - శ్రీ రొంపిచెర్ల శివరామయ్య
19. గాంధీజీ భగవద్గీత - శ్రీ రొంపిచెర్ల శివరామయ్య
20. గాంధీజీ జీవితంలో కస్తూరిబా పాత్ర - శ్రీమతి గూడూరు లక్ష్మీ
21. సత్యాగ్రహ సిద్ధాంత విధానం,
ప్రజాస్వామ్యంలో ' సత్యాగ్రహ విశిష్టత' - డా॥ శ్రీ జి.సునీల్ కుమార్, పొలిటికల్ సైన్స్
డిపార్టుమెంట్.
22. గాంధీజీ మానవత్వం - డా॥ శ్రీ వి.వెంకటేశ్వర్లు
23. గ్రామ స్వరాజ్యం - డా॥ శ్రీమతి కె.సునీత - సోషల్ వర్క్
24. స్వాతంత్ర్య ఉద్యమాల చరిత్ర - గాంధీజీ - డా॥ శ్రీ పి. సుబ్బరామరాజు ఐ/సి. హెడ్
Dr. B.V.S.R.

సర్టిఫికేటర్ కోర్సు కో ఆర్డినేటర్
పినాకిని సత్యాగ్రహ (గాంధీ) ఆశ్రమం పల్లిపాడు
ఇందుకూరు పేట మండలం,
శ్రీపొట్టి శ్రీరాములు నెల్లూరు జిల్లా.


సర్టిఫికేటర్ కోర్సు కో ఆర్డినేటర్
విక్రమ సింహపురి విశ్వవిద్యాలయం
కాకుటూరు,
శ్రీపొట్టి శ్రీరాములు నెల్లూరు జిల్లా.



**VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF FOOD TECHNOLOGY**

Course Name: AGRICULTURE MARKETING

Eligibility: For all the Branches

Learning Outcomes:

By the successful completion of this course, the student will be able to;

1. Know the kinds of agricultural products and their movement
2. Understand the types, structure and functioning of agricultural marketing system
3. Comprehend related skills and apply them in sample situations
4. Extend this knowledge and skills to their production/consumption environment

SYLLABUS:

Unit- I:

Introduction of Agriculture and agricultural products (including agriculture, horticulture, sericulture, floriculture, aquaculture- genetic culture and dairy product) - Agricultural Marketing

- Role of marketing - Concepts - Goods and services - Movement of product from farm to consumer –Middlemen – Moneylenders - Types of agricultural markets (basic classification).

Unit- II:

Basic structure and facilities of an agricultural market – Primary, secondary and tertiary markets–Functioning of Market Yards–Market information – Rythu Bharosa Kendras (RBK) -Govtmarket policies and regulations- Contract farming -Govt Apps for marketing of agri products.


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Unit- III:


- Planning production – assembling – grading - transportation– storage facilities.Price fixation. Dissemination of market information –and role of ICT.Marketing - Mix- Product element- Place element- Price element- Promotion element. Selection of target market. Government programs insupport of Agricultural marketing in India.

Suggested Co-curricular Activities: 05hrs

1. Study visit to agricultural marketsand Rythu Bharosa Kendras (RBK)
 2. Invited lecture by field expert
- Survey of various involved activities e.g.assembling, grading, storage, transportation anddistribution
3. Identify the demand for food processing units
 4. Application of Govt Apps as one Nation and one Market
 5. Assignments, Group discussion, Quiz etc.

Reference books

- 1 .S.S.Acharya&N.L.Agarwala, Agricultural Marketing in India - Oxford and IBH Publications
 2. K.S.Habeeb - Ur - Rahman Rural Marketing in India - Himalaya publishing
 3. S.S.Chinna Agricultural Marketing in India - KALYANI publishers
 4. Publications of National Institute of Agricultural Marketing, Odisha
- Wikipedia and other websites on Agricultural Marketing


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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
Department of Statistics

Course Name: Introduction to SPSS

(30 hrs)

Course Outcomes: Students will be able to

Familiarity with the tool box of statistical software.

Capacitating students in analyzing complex information with the help of statistical software – Statistical Package for Social Sciences (SPSS).

A strong theoretical and empirical foundation in statistical analysis.

Module I: Introduction to SPSS

SPSS Environment: data editor, output viewer, syntax editor – Data view window – SPSS Syntax – Data creation – Importing data – Variable types in SPSS and Defining variables – Creating a Codebook in SPSS, Computing Variables - Recoding (Transforming) Variables: Recoding Categorical String Variables using Automatic Recode - Rank Cases - Sorting Data - Grouping or Splitting Data.

Module II: Working and Analysing Data

Descriptive Statistics for Continuous Variables - The Explore procedure - Frequencies Procedure – Descriptives - Compare Means - Frequencies for Categorical Data, Inferential Statistics for Association: Pearson Correlation, Chi-square Test of Independence – Inferential Statistics for Comparing Means: One Sample t Test, Paired Samples T Test, Independent Samples T Test, One-Way ANOVA

References

1. IBM 2016, IBM Knowledge Center: SPSS Statistics, IBM, viewed 18 May 2016, <https://www.ibm.com/support/knowledgecenter/SSLVMB/welcome/>
2. HOW TO USE SPSS ® A Step-By-Step Guide to Analysis and Interpretation, Brian C. Cronk, Tenth edition published in 2018 by Routledge.
3. SPSS for Intermediate Statistics: Use and Interpretation, Nancy L. Leech


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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
Department of BIOTECHNOLOGY

Course Name: HEALTH AND HYGIENE

(30 hrs)

The course is designed to provide a complete guidance on health and hygiene systems, guidelines for implementing and role of government and public in maintaining a healthy life. At the end of the course the student shall be able to understand –

- the importance of health and hygiene in life
- the importance of nutrition for a healthy life
- different health care programmes of India
- basic concept of health impact assessment as a means of assessing the policies, plans and projects using quantitative and qualitative techniques
- importance of community and personal health & hygiene measures
- Importance of food, social tenets, mental condition, physical activity on health

Learning Objectives:

- To provide knowledge on different health indicators and types of hygiene methods
- To impart knowledge on different health care programmes taken up by India
- To make student understand the latest concepts of health such as HIA, EIA, SIA and SEA
- To enable student with disaster mitigation strategies
- To create awareness on community health and hygiene
- To enrich knowledge on communicable and non-communicable diseases and their control
- To aware the student on the importance of food, social strategies, mental status and physical activities on health
- To introduce different community-based mobile apps on health to student and thereby to the community

Learning / Course Outcomes: On completion of this course, the students will be able to understand -

- What is a healthy diet
- How can we use available information to optimize our diet?
- Can nutrition be used for a healthy life?
- Is there a one-size-fits-all “good” diet or should we individualize our dietary goals?
- Disaster management and responsiveness of public in pandemic and epidemic diseases
- Assess the impact of policies on health and hygiene Health measures to consider while travelling
- through Awareness in public digital media viz., mobile apps

Unit I: Basics of Nutrition

10 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

10 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); Adolescent Health- 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

10 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

REFERENCES

- **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
- **Swaminathan (1995)** *Food & Nutrition*(Vol I, Second Edition) The Bangalore Printing &Publishing Co Ltd., , Bangalore
- **Vijaya Khader (2000)** *Food, nutrition & health*, Kalyan Publishers, New Delhi



VIKRAMA SIMHAPURI UNIVERSITY::KAVALI
DEPARTMENT OF BOTANY
ASSOCIATION WITH NAYAGO EDUCATIONAL TRUST: NELLORE
Eligibility: For all the Branches

Course Name: YOGA PHYLOSOPHY

Outcome of the Course: Yoga; one among the six orthodox philosophical systems of Bharath, is to be learned basically in its philosophical aspect. Since basic texts and commentaries of Bharatiya Darsanas are in Sanskrit, learners should familiarise with basic lessons of Sanskrit.

Objective: To understand basic lessons of Sanskrit language such as types of nouns and verbs, Vibhaktis, Lakaras, Sentence construction, communicative Sanskrit and basics of Bharatiya Darsanas with special reference to Yoga

Course Outline Module 1 Communicative Sanskrit, Subanta, Tinganta, Sentence Creation, Subhashithas.

Module 2 Systems in Indian Philosophy.

Module 3 History and Development of Yoga Philosophy Module 4 Jnanayoga, Bhaktiyoga, Rajayoga and Karmayoga

References: Samskrtasubodhini Outlines of Indian Philosophy Rajayoga Karmayoga Jnanayoga Bhaktiyoga

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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF SOCIAL WORK
ASSOCIATION WITH NAYAGO EDUCATIONAL TRUST: NELLORE
YOGA AND WELLNES
(2017-2018)

Learning Outcomes:

Students of the UG course will have an understanding of Yoga, its origin, history and development of Yoga, Introduction of Yoga according to various texts.

Section-I 06 Hrs	Introduction of Yoga and Asanas & Pranayama
Section-II: 08 Hrs	Kriyas and Mudras
Section-III: 08 Hrs	Yoga Sport & Health, Yoga for Physical Fitness & Concentration
Practicals 08 Hrs	
1.	Asanas (Bhadrasan, Bakasan Padangushthasan, padam bakasan, Sarwang Asan)
2.	Kriyas, Meditation Techniques, Yoga Therapy Special Techniques
3.	Mudras & Bandhas (Mahabandh, Kaki mundra, Shambhavi mundra, Vipreetkarni mundra, yoga mundra)
4.	Pranayamas (Bhastrika, Bhramari)
5.	Viva & Internal Assessment

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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF SOCIAL WORK
ASSOCIATION WITH NAYAGO EDUCATIONAL TRUST: NELLORE

Course name: Health and well being

Learning Outcomes:

Students of the UG course will have an understanding of health and the ways of healthy life style
HEALTH AND WELL BEING

SYLLABUS

Unit 1

Introduction to Health

Health is wealth; Role of lifestyle habits on health; Importance of adolescence; Stages, Characteristics and changes during adolescence; Nutritional needs during adolescence why healthy lifestyle is important for adolescence. Eating Habits – eating disorders, skipping breakfast, junk food consumption.

Practicals – Therapeutic Diets

Unit 2

Promotion of healthy lifestyle

Fluid intake; nutrition related problems; lifestyle related problems, Role of physical activity; resting pattern and postures, Personal habits – alcoholism, and other tobacco products, electronic addiction etc

Practicals – Ethnic Foods

Unit 3

Emotional well being and mental health

Peer pressure & procrastination, Stress, depression, suicidal tendency, Mini project review and viva, Whole portions revision.

Practical – Cooking without Fire or Wire-healthy Snacks


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NELLORE - 524 320



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF COMPUTER SCIENCE

Course Name: BASIC COMPUTER APPLICATIONS

Objectives

This course aims at providing exposure to students in skill development towards basic office applications.

Course Learning Outcomes:

After successful completion of the course, student will be able to:

1. Demonstrate basic understanding of computer hardware and software.
2. Apply skills and concepts for basic use of a computer.
3. Identify appropriate tool of MS office to prepare basic documents, charts, spreadsheets and presentations.
4. Create personal, academic and business documents using MS office.
5. Create spreadsheets, charts and presentations.
6. Analyze data using charts and spread sheets.

Unit-I:

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.

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Unit-II:

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:


MS-Excel : Overview of Excel features – Creating a new worksheet, Selecting cells, Entering and editing Text, Numbers, Inserting Rows/Columns –Changing column widths and row heights, Formulae, Referencing cells , Changing font sizes and colors, Insertion of 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.

RECOMMENDED CO-CURRICULAR ACTIVITIES:

(Co-curricular activities shall not promote copying from textbook or from others work and shall encourage self/independent and group learning)

1. Assignments (in writing and doing forms on the aspects of syllabus content and outside
 - a. the syllabus content. Shall be individual and challenging))
2. Student seminars (on topics of the syllabus and related aspects (individual activity))
3. Quiz, Group Discussion
4. Solving MCQ's available online.
5. Suggested student hands on activities:
 - Create two folders, Rename the folder, create two files each using notepad and paint, move the files from one folder to another folder, delete a file you have created, copy and paste text within 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.


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REFERENCE BOOKS:

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



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NELLORE-524 003



VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF BUSINESS MANAGEMENT

Course Name: ENTREPRENEURSHIP DEVELOPMENT

Learning Outcomes

By the successful completion of this course, the student will be able to;

1. Know the kinds of agricultural products and their movement
2. Understand the types, structure and functioning of agricultural marketing system
3. Comprehend related skills and apply them in sample situations
4. Extend this knowledge and skills to their production/consumption environment

SYLLABUS:

Unit- I: 06hrs

Introduction of Agriculture and agricultural products (including agriculture, horticulture, sericulture, floriculture, aquaculture- genetic culture and dairy product) - Agricultural Marketing- Role of marketing - Concepts - Goods and services - Movement of product from farm to consumer –Middlemen – Moneylenders - Types of agricultural markets (basic classification).

Unit- II: 09hrs

Basic structure and facilities of an agricultural market – Primary, secondary and tertiary markets–Functioning of Market Yards–Market information - RythuBharosaKendras (RBK) -Govtmarket policies and regulations- Contract farming -Govt Apps for marketing of agri products.

Unit- III: 10hrs

Planning production – assembling – grading -transportation–storage facilities.Price fixation. Dissemination of market information –and role of ICT.Marketing - Mix-Product element- Place element- Price element- Promotion element. Selection of target market. Government programs insupport of Agricultural marketing in India.

Suggested Co-curricular Activities: 06hrs

1. Study visit to agricultural markets and Rythu Bharosa Kendras (RBK)
2. Invited lecture by field expert
3. Survey of various involved activities e.g. assembling, grading, storage, transportation and distribution
4. Identify the demand for food processing units
5. Application of Govt Apps as one Nation and one Market
6. Assignments, Group discussion, Quiz etc.

Reference books

1. S.S. Acharya & N.L. Agarwala, Agricultural Marketing in India - Oxford and IBH Publications
2. K.S. Habib - Ur - Rahman Rural Marketing in India - Himalaya publishing
3. S.S. Chinna Agricultural Marketing in India - KALYANI publishers
4. Publications of National Institute of Agricultural Marketing, Odisha
Wikipedia and other websites on Agricultural Marketing



2020
Department of Business
Management
Vivekananda Simhapuri University
Rakurum, Malkangiri Dt.



**VIKRAMA SIMHAPURI UNIVERSITY::KAVALI
DEPARTMENT OF BOTANY**

Course Name: FUNDAMENTALS AND PRINCIPLES OF MEDITATION

Eligibility: For all disciplines

Course Objectives:

Promoting positive health and holistic wellness

Imparting skills to introduce Yoga awareness for health among general public.

To enable students to become competent and committed professionals and willing to perform as Yoga Trainer.

To make student to use competencies and skills needed for becoming effective• Yoga trainer.

To enable student to understand the type of Yoga.

Learning Outcomes:

To acquaint student with the Practical knowledge of Yogasana, Kriya, Bandhas, Mudra, Meditation and Pranayama etc. Students can work as Yoga Trainer in Yoga Studio, Yoga wellness Centres.

Conduct Yoga Protocol at work places.

Conduct yoga classes in Parks, societies

Course Syllabus

1. Fundamentals of Meditation

1.1 Introduction to Meditation


1.2 Basic principles of meditation

1.3 Happiness & Meditation

1.4 Benefits of Meditation

1.5 Philosophy, physiology, Medicine

2. Concentration and Meditation


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2.1 Definitions of concentration

2.2 The power of concentration 2.3 Aids of concentration

2.4 Patience in concentration

2.5 Objects for concentration

2.6 Benefits of concentration

3. Meditation

3.1 The Koshes – Our Great Human Heritage

3.2 The Chakra System – Centres of Unity

3.3 The Gunas – Steps of Evolvement

3.4 Obstacles in Meditation

3.5 Psycho-social environment and its importance for mental health (Yama and Niyama)

PRACTICALS

Parthivi Dharana (concentration on earth)

Ambhasi Dharana (concentration on water)

Agneyi Dharana (concentration on fire)

Vayviye Dharana (concentration on air)

Akashi Dharna (concentration on ether)

Trataka and Concentration

Ujjayi and Concentration

OM Meditation

Text and References

Practical yoga Psychology by Bihar School of Yoga

Gheranda Samhita by Swami Niranjananada Saraswati

Concentration and Meditation by swami Sivananda Saraswati


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Yoga & Mental Health by R. S. Bhogal

Yoga & Modern Psychology by Kaivalyadham Asharam

Yoga for Stress Management by Sri Venkatkrishnan

Yoga for Stress Relief by Swami Shivapramananda

Yoga Nidra by Swami Styananda Saraswa



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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF SOCIAL WORK IN ASSOCIATION
WITH NAYAGO EDUCATIONAL TRUST: NELLORE
(2021-2022)

Eligibility: For all the Branches

Course Name: A FOUNDATION COURSE ON YOGA AND MEDITATION

Course Objectives: Promoting positive health and holistic wellness,• Imparting skills to introduce Yoga awareness for health among general public. • To enable students to become competent and committed professionals willing• to perform as Yoga Trainer. To make student to use competencies and skills needed for becoming effective• Yoga trainer. To enable student to understand the type of Yoga.

Learning outcomes: To acquaint student with the Practical knowledge of Yogasana, Kriya,• Bandhas, Mudra, Meditation and Pranayama etc. Students can work as Yoga Trainer in Yoga Studio, Yoga wellness Centres. • Conduct Yoga Protocol at work places. • Conduct yoga classes in Parks, societies, RWA etc•

Foundation of Yoga syllabus

1. Yoga: Etymology, definitions, aim, objectives and misconceptions.
- 2 Yoga: Its origin, history and development.
- 3 Ashtanga Yoga (Yama, Niyam, Asana, Pranayama, Pratyahara, Dharna, Dhyana, Samadhi)
- 4 Principles and Practices of Jnana Yoga, Bhakti Yoga, Karma Yoga
5. Introduction of Yogic Text (Hatha Yoga Pradeepka, GherandSamhita, Patanjali Yoga Sutra)
6. Principles of Hatha Yoga
7. Fundamentals of Meditation 1.1 Introduction to Meditation 1.2 Basic principles of meditation 1.3 Happiness & Meditation 1.4 Benefits of Meditation 1.5 Philosophy, physiology, Medicin

Text and References

Yogic SuksmaVyayma by DharendraBrahmachari • Asana Pranayama Mudra Bandha by Swami SatyanandaSaraswati. Publisher: Yoga Publication Trust, • Munger, Bihar, India Karma Yoga, Bhakti Yoga, Raja Yoga, Jnana Yoga by Swami Vivekananda • Yoga Sutras of Patanjali by Swami SatyanandaSaraswati. Publisher: Yoga Publication Trust, Munger, • Bihar, India Hatha Yoga by Swami Sivananda. Publisher: The Divine Life Society, Uttarakhand, India • GherandaSamhita by Swami NiranjananandaSaraswati.

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Publisher: Yoga Publication Trust, Munger, Bihar, • India Essence of Yoga by Swami SivanandaSaraswati.
Publisher: The Divine Life Society • Yoga and Kriya by Swami SatyanandaSaraswati. Publisher: Yoga
Publication Trust, Munger, Bihar, Indi •

Practicals

ASANAS

Asana Bhujangasana (cobra pose), AshwaSanchalanasana (equestrian pose), Ushtrasana (camel pose), Tadasana (palm tree pose), TiryakaTadasana (swaying palm tree pose), Nukasana (boat pose), Sirshasana (headstand pose), Halasana (plough pose), Sarvangasana (shoulder stand pose), Setuasana (bridge pose), Gomukhasana (cow's face pose), Paschimottanasana (back stretching pose), Janu Sirshasana (head to knee pose), Sirshaangusthasana (head to toe pose), Ardhamatsyendrasana (half spinal twist), Ekapadapranamasana (one legged prayer pose), Garudasana (eagle pose), Natarajasana (lord Shiva's pose), Ekapadasana (one foot pose), Bakasana (crane pose), Padaang ushthasana (tip toe pose), Bakadhyanasana (patient crane pose), Mayurasana (peacock pose), Chakrasana (wheel pose), Hanumanasana (Hanumana Pose). Brahmacharyasana (celibate's pose), Moolabandhasana (perineal contraction pose), Meruwakrasana (spinal twist pose), Utthanpristhasana (lizard pose), Kandharasana (shoulder pose), Dhanurasana (bow pose), Shalabhasana (locust pose), Sarpasana (snake pose), TriyakBhujangasana (twisting cobra pose), Yogamudrasana (psychic union pose), Matsyasana (fish pose), ArdhaChandrasana (half-moon pose), Trikonasana (triangle pose), Plavanga, Shavasana (corpse pose), Padmasana (lotus pose), Vajrasana (thunderbolt pose), Makarasana (crocodile pose), Simhasana (lion pose), Pawanmuktasana (leglock pose), Dwipada (double angle pose), Samakonasana (rightangle pose), Lolasana (swinging pose), Kukkutasana (cockerel pose)etc

MEDITATION

Pratyahara (Withdrawal of the mind from external objects), Prayer and Meditation, Yoga Nidra (psychic sleep), Cleansing of mind by Mantra chanting, Mantra Sadhana- Behavioral techniques to control mind, Psychological aspects of meditation

MUDRAS

Yoga Mudra (attitude of psychic union), Shambhavi mudra (eyebrow centre gazing), Prana Mudra (invocation of energy), Maha Mudra (great psychic attitude), MahaBandha Mudra (the great lock attitude), MahaVedha Mudra (the great piercing attitude), Tadagi Mudra (barrelled abdomen technique), Akashi Mudra (awareness of inner space), Pashinee Mudra (folded psychic attitude)

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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF PHYSICS

Course Name: SOLAR ENERGY

Course Code: 20RPHYMVAC-01

Learning Outcomes:

After successful completion of the course, students will be able to:

1. Acquire knowledge on solar radiation principles with respect to solar energy estimation.
2. Get familiarized with various collecting techniques of solar energy and its storage
3. Learn the solar photovoltaic technology principles and different types of solar cells forenergy conversion and different photovoltaic applications.
4. Understand the working principles of several solar appliances like Solar cookers, Solar hotwater systems, Solar dryers, Solar Distillation, Solar greenhouses

UNIT-I – Solar Radiation:

Sun as a source of energy, Solar radiation, Solar radiation at the Earth's surface, Measurement of Solar radiation-Pyroheliometer, Pyranometer, Sunshine recorder, Prediction of available solar radiation, Solar energy-Importance, Storage of solar energy, Solar pond

UNIT-II – Solar Thermal Systems:

Principle of conversion of solar radiation into heat, Collectors used for solar thermal conversion: Flat plate collectors and Concentrating collectors, Solar Thermal Power Plant, Solar cookers, solar hot water systems, solar dryers, Solar Distillation, Solar greenhouses.

UNIT-III – Solar Photovoltaic Systems:

Conversion of Solar energy into Electricity - Photovoltaic Effect, Solar photovoltaic cell and its working principle, Different types of Solar cells, Series and parallel connections, Photovoltaic applications: Battery chargers, domestic lighting, street lighting and water pumping.

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Co-curricular Activities (Hands on Exercises):

[Any four of the following may be taken up]

1. Plot sun chart and locate the sun at your location for a given time of the day.
2. Analyse shadow effect on incident solar radiation and find out contributors.
3. Connect solar panels in series & parallel and measure voltage and current.
4. Measure intensity of solar radiation using Pyranometer and radiometers.
5. Construct a solar lantern using Solar PV panel (15W)
6. Assemble solar cooker
7. Designing and constructing photovoltaic system for a domestic house requiring 5kVA power
8. Assignments/Model Exam.

Reference Books:

1. Solar Energy- Fundamentals, design, modeling & applications, G.N. Tiwari, Narosa Pub., 2005.
2. Solar Energy-Principles of thermal energy collection & storage, S.P. Sukhatme, Tata Mc-Graw Hill Publishers, 1999.
3. Solar Photovoltaics- Fundamentals, technologies and applications, Chetan Singh Solanki, PHI Learning Pvt. Ltd.,
4. Science and Technology of Photovoltaics, P. Jayarama Reddy, BS Publications, 2004


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VIKRAMA SIMHAPURI UNIVERSITY::Kavali

DEPARTMENT OF BOTANY

(academic year 2020-2021)

Eligibility: For all the Branches

Course Name: Nursery Management

Course Code: 20RBOTVAC-01

Learning Outcomes:

On successful completion of this course students will be able to;

1. Understand the importance of a plant nursery and basic infrastructure to establish it.
2. Explain the basic material, tools and techniques required for nursery.
3. Demonstrate expertise related to various practices in a nursery.
4. Comprehend knowledge and skills to get an employment or to become an entrepreneur in plant nursery sector.

Syllabus:

Unit-1: Introduction to plant nursery

1. Plant nursery: Definition, importance.
2. Different types of nurseries –on the basis of duration, plants produced, structure used.
3. Basic facilities for a nursery; layout and components of a good nursery.
4. Plant propagation structures in brief.
5. Bureau of Indian Standards (BIS-2008) related to nursery.

Unit- 2: Necessities for nursery

1. Nursery beds – types and precautions to be taken during preparation.
2. Growing media, nursery tools and implements, and containers for plant nursery, in brief.
3. Seeds and other vegetative material used to raise nursery. in brief.
4. Outlines of vegetative propagation techniques to produce planting material.
5. Sowing methods of seeds and planting material.

Unit-3: Management of nursery

1. Seasonal activities and routine operations in a nursery.
2. Nursery management – watering, weeding and nutrients; pests and diseases.
3. Common possible errors in nursery activities.
4. Economics of nursery development, pricing and record maintenance.
5. Online nursery information and sales systems.

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Suggested Co-curricular activities (6 Hrs.)

1. Assignments/Group discussion/Quiz/Model Exam.
2. Demonstration of nursery bed making.
3. Demonstration of preparation of media for nursery.
4. Hands on training on vegetative propagation techniques.
5. Hands on training on sowing methods of seeds and other material.
6. Invited lecture cum demonstration by local expert.
7. Watching videos on routine practices in plant nurseries.
8. Visit to an agriculture/horticulture /forest nursery.
9. Case study on establishment and success of a plant nursery.

Suggested text books/reference books:

1. Ratha Krishnan, M., et.al. (2014) Plant nursery management : Principles and practices, Central Arid Zone Research Institute (ICAR), Jodhpur, Rajasthan
2. Kumar, N., (1997) Introduction to Horticulture, Rajalakshmi Publications, Nagercoil.
3. KumarMishra, K., N.K. Mishra and Satish Chand (1994) Plant Propagation, JohnWiley & Sons, New Jersey.

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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF Business Management
Syllabus for the Value Added Course
(2020-2021)

Eligibility: For all the Branches

Course Name: online Business

Course Code: 20RBMVAC-02

Learning Outcomes:

After successful completion of the course, students will be able to

1. Understand the online business and its advantages and disadvantages
2. Recognize new channels of marketing, their scope and steps involved
3. Analyze the procurement, payment process, security and shipping in online business
4. Create new marketing tools for online business
5. Define search engine, payment gateways and SEO techniques.

SYLLABUS:

Section-I:

Introduction to Online-business-Definition-Characteristics-Advantages of Online Business-Challenges- Differences between off-line business, e-commerce and Online Business.

Section-II:

Online-business Strategies-Strategic Planning Process- Procurement -Logistics & Supply ChainManagement- Customer Relationship management.

Section-III:

Designing Online Business Website – Policies - Security & Legal Issues - OnlineAdvertisements - Payment Gateways - Case Study

Co-curricular Activities Suggested:

1. Assignments, Group discussion, Quiz etc.
2. Short practical training in computer lab
3. Identifying online business firms through internet
4. Invited Lectures by e-commerce operators
5. Working with Google and HTML advertisements.
6. Visit to a local online business firm

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Reference books:

1. David Whiteley, "E-Commerce", Tata McGraw Hill, 2000.
2. E Business by Jonathan Reynolds from Oxford University Press.
3. Soka, From EDI to Electronic Commerce, McGraw Hill.
4. Websites on Online business.



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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF SOCIAL WORK
ASSOCIATION WITH NAYAGO EDUCATIONAL TRUST: NELLORE
YOGA AND WELLBEING
(2020-2021)

Learning Outcomes:

Students of the UG course will have an understanding of Yoga, its origin, history and development of Yoga, Introduction of Yoga according to various texts.

Section-I 06 Hrs	Introduction of Yoga and Asanas & Pranayama
Section-II: 08 Hrs	Kriyas and Mudras
Section-III: 08 Hrs	Yoga Sport & Health, Yoga for Physical Fitness & Concentration
Practicals 08 Hrs	
1.	Asanas (Bhadrasan, Bakasan Padangushthasan, padam bakasan, Sarwang Asan)
2.	Kriyas, Meditation Techniques, Yoga Therapy Special Techniques
3.	Mudras & Bandhas (Mahabandh, Kaki mundra, Shambhavi mundra, Vipreetkarni mundra, yoga mundra)
4.	Pranayamas (Bhastrika, Bhramari)
5.	Viva & Internal Assessment

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Vikrama Simhapuri University
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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
Department of BIOTECHNOLOGY

Course Name: HEALTH AND HYGIENE


(30 hrs)

The course is designed to provide a complete guidance on health and hygiene systems, guidelines for implementing and role of government and public in maintaining a healthy life. At the end of the course the student shall be able to understand –

- the importance of health and hygiene in life
- the importance of nutrition for a healthy life
- different health care programmes of India
- basic concept of health impact assessment as a means of assessing the policies, plans and projects using quantitative and qualitative techniques
- importance of community and personal health & hygiene measures
- Importance of food, social tenets, mental condition, physical activity on health

Learning Objectives:

- To provide knowledge on different health indicators and types of hygiene methods
- To impart knowledge on different health care programmes taken up by India
- To make student understand the latest concepts of health such as HIA, EIA, SIA and SEA
- To enable student with disaster mitigation strategies
- To create awareness on community health and hygiene
- To enrich knowledge on communicable and non-communicable diseases and their control
- To aware the student on the importance of food, social strategies, mental status and physical activities on health
- To introduce different community-based mobile apps on health to student and thereby to the community


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Learning / Course Outcomes: On completion of this course, the students will be able to understand -

- What is a healthy diet
- How can we use available information to optimize our diet?
- Can nutrition be used for a healthy life?
- Is there a one-size-fits-all “good” diet or should we individualize our dietary goals?
- Disaster management and responsiveness of public in pandemic and epidemic diseases
- Assess the impact of policies on health and hygiene Health measures to consider while travelling
- through Awareness in public digital media viz., mobile apps

Unit I: Basics of Nutrition

10 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

10 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


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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); Adolescent Health- 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

10 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

REFERENCES

- **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
- **Swaminathan (1995)** *Food & Nutrition*(Vol I, Second Edition) The Bangalore Printing & Publishing Co Ltd., , Bangalore
- **Vijaya Khader (2000)** *Food, nutrition & health*, Kalyan Publishers, New Delhi


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VIKRAMA SIMHAPURI UNIVERSITY: Nellore
DEPARTMENT OF Political Science and Public Administration

Course Name: INDIAN CULTURE AND SCIENCE

COURSE OBJECTIVES: The course aims at imparting basic principles of thought process, reasoning and inference to identify the roots and details of some of the contemporary issues faced by our nation and try to locate possible solutions to these challenges by digging deep into our past.

- To enable the students to understand the importance of our surroundings and encourage the students to contribute towards sustainable development.
- To sensitize students towards issues related to 'Indian' culture, tradition and its composite character. Non Credit Course 2020-21 AICTE Model Curriculum K series (V & VI Semester) Page 8
- To make students aware of holistic life styles of Yogic-science and wisdom capsules in Sanskrit literature that are important in modern society with rapid technological advancements and societal disruptions.
- To acquaint students with Indian Knowledge System, Indian perspective of modern scientific world-view and basic principles of Yoga and holistic health care system.

COURSE OUTCOMES:

Ability to understand, connect up and explain basics of Indian Traditional knowledge modern scientific perspective.

SUGGESTED PEDAGOGY FOR TEACHERS

- Project based learning
- Case studies
- Group discussion
- Presentations

HEAD

**Department of Political Science
and Public Administration
Vikrama Simhapuri University
NELLORE - 524 324**

SYLLABUS

Unit 1- Indian Literature, Culture, Tradition, and Practices Evolution of script and languages in India: Harappan Script and Brahmi Script. The Vedas, the Upanishads, the Ramayana and the Mahabharata, Puranas, Buddhist And Jain Literature in Pali, Prakrit And Sanskrit, Kautilya's Arthashastra, Famous Sanskrit Authors, Telugu Literature, Kannada Literature, Malayalam Literature, Sangama Literature Northern Indian Languages & Literature, Persian And Urdu, Hindi Literature

Unit 3 -Science, Management and Indian Knowledge System Astronomy in India, Chemistry in India, Mathematics in India, Physics in India, Agriculture in India, Medicine in India, Metallurgy in India, Geography, Biology, Harappan Technologies, Water Management in India, Textile Technology in India, Writing Technology in India Pyrotechnics in India Trade in Ancient India/, India's Dominance up to Pre-colonial Times

Unit 4 - Cultural Heritage and Performing Arts Indian Architect, Engineering and Architecture in Ancient India, Sculptures, Seals, coins, Pottery, Puppetry, Dance, Music, Theatre, drama, Painting, Martial Arts Traditions, Fairs and Festivals, Current developments in Arts and Cultural, Indian's Cultural Contribution to the World. Indian Cinema

Suggested Text & Reference Books

1. V. Sivaramakrishna (Ed.), Cultural Heritage of India-Course Material, Bharatiya Vidya Bhavan, Mumbai, 5th Edition, 2014
2. S. Baliyan, Indian Art and Culture, Oxford University Press, India
3. Swami Jitatmanand, Modern Physics and Vedant, Bharatiya Vidya Bhavan
4. Romila Thapar, Readings In Early Indian History Oxford University Press, India
5. Fritz of Capra, Tao of Physics
6. Fritz of Capra, The wave of Life
7. V N Jha (English Translation), Tarkasangraha of Annam Bhatta, International Chinmay Foundation, Velliarnad, Amaku, am


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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE

DEPARTMENT OF SOCIAL WORK ASSOCIATION WITH NAYAGO
EDUCATIONAL TRUST: NELLORE

YOGA PRACTICES

Learning Outcomes:

Students of the UG course will have an understanding of Yoga, its origin, history and development of Yoga, Introduction of Yoga according to various texts.

YOGA PRACTICES SYLLABUS

UNIT 1

Surya Namaskaras

UNIT 2

Meditative Postures : Sukhasan, Swastikasana; Vajrsan; Ardha padmasan, padmasan, Siddhasan

Relaxation postures: Shavasana; Advasana; Jyeshtikasana; Makharasana

Standing postures: Tiryak Tadasana; Trikonasana; Parivrita Trikonasana; Katichakrasana; Parsvakonasana

Balancing Postures: Tadasana; Vrikshasana; Natarajasan; Ekapadasana; Merudandasana; Parvathasan

Sitting postures: Bhadrasana; Virasana ; Vakrasana

UNIT 3

Mudras : Viparita karni ; Tadagi Mudra ; Pasani Mudra ; Aswani Mudra ; Bhujangini Mudra

UNIT 4

Relaxation Methods : Sixty one Points Relaxation technique; Instant Relaxation Technique ; Quick Relaxation Technique ; Deep Relaxation Technique Practice of Pranayamam.

Text Books For Reference

1. Sachitra Yoga Pradipika by B.K.S. Ayyanger , Telugu Tr. By Jyosthna
2. Journey to Real Self: Dr. Raparathi Ramara


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VIKRAMA SIMHAPURI UNIVERSITY::NELLORE
DEPARTMENT OF PHYSICS

Course Name: Electrical Appliances

Learning Outcomes:

By successful completion of the course, students will be able to:

1. Acquire necessary skills/hand on experience/ working knowledge on multimeters, galvanometers, ammeters, voltmeters, ac/dc generators, motors, transformers, single phase and three phase connections, basics of electrical wiring with electrical protection devices.
2. Understand the working principles of different household domestic appliances.
3. Check the electrical connections at house-hold but will also learn the skill to repair the electrical appliances for the general troubleshoots and wiring faults.

SYLLABUS:

UNIT-I

Voltage, Current, Resistance, Capacitance, Inductance, Electrical conductors and Insulators, Ohm's law, Series and parallel combinations of resistors, Galvanometer, Ammeter, Voltmeter, Multimeter, Transformers, Electrical energy, Power, Kilowatt hour (kWh), consumption of electrical power

UNIT-II

Direct current and alternating current, RMS and peak values, Power factor, Single phase and three phase connections, Basics of House wiring, Star and delta connection, Electric shock, First aid for electric shock, Overloading, Earthing and its necessity, Short circuiting, Fuses, MCB, ELCB, Insulation, Inverter, UPS

UNIT-III

Principles of working, parts and servicing of Electric fan, Electric Iron box, Water heater; Induction heater, Microwave oven; Refrigerator, Concept of illumination, Electric bulbs, CFL, LED lights, Energy efficiency in electrical appliances, IS codes & IE codes.

Co-curricular Activities (Hands on Exercises):

[Any four of the following may be taken up]

1. Studying the electrical performance and power consumption of a given number of bulbs connected in series and parallel circuits.


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2. Measuring parameters in combinational DC circuits by applying Ohm's Law for different resistor values and voltage sources
3. Awareness of electrical safety tools and rescue of person in contact with live wire.
4. Checking the specific gravity of lead acid batteries in home UPS and topping-up with distilled water.
5. Identifying Phase, Neutral and Earth on power sockets.
6. Identifying primary and secondary windings and measuring primary and secondary voltages in various types of transformers.
7. Observing the working of transformer under no-load and full load conditions.
8. Observing the response of inductor and capacitor with DC and AC sources.
9. Observing the connections of elements and identify current flow and voltage drops.
10. Studying electrical circuit protection using MCBs, ELCBs
11. Assignments, Model exam etc.
- 12.

Reference Books:

1. A Text book on Electrical Technology, B.L.Theraja, S.Chand & Co.,
 2. A Text book on Electrical Technology, A.K.Theraja.
 3. Performance and design of AC machines, M.G.Say, ELBSEdn.,
 4. Handbook of Repair & Maintenance of domestic electronics appliances; BPB Publications
 5. Consumer Electronics, S.P.Bali, Pearson
 6. Domestic Appliances Servicing, K.P.Anwer, Scholar Institute Publications
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