

Syllabus supporting Gender, Environment and Sustainability, Human Values and Professional Ethics

I, II & III BGB, B. Sc-PMCs

Gender Studies

BHODHI VRUKSH, BANGALORE

&

JAIN COLLEGE, KOLAR GOLD FIELDS,

Presents

32 hours certificate course on Gender Studies.

Context:

In the present day world, when we hear about atrocities on girls and women, one wonders why there is so much insensitivity. According to UN women, gender inequality is a major cause of hunger, poverty and discriminations all over the world. For the past two years the UN has declared that the International Women's day theme be "Gender Parity" to create awareness all over the world about the importance of women.

For the past few years, Bhodhi Vruksh has been offering courses on Gender and Women's studies, informally, to create gender consciousness among college students. This is important because, all over the world there is stress on developing a violence/discrimination free environment where women and girls feel free to work. A certificate course on gender studies makes it easier, not only to raise consciousness, but also help students to understand various laws for women today.

The objectives of the Course are:

- To build critical understanding among the students in understanding how society is constituted, how relations of power define the lives of individuals, groups, institutions and economic cultures in multiple settings and sites.
- To explore the construction of gender and gender based inequalities in society.
- To draw from feminist and feminist theories also focusing on men and queers.

Outcome:

The student acquires sound analytical skills and expertise in doing sensitive research and development sector work with a particular focus on women, girl children, SHGs and so on.

Syllabus:

Unit: 1

- Gender concepts, social construction of gender
- Gender shaping institutions
- Theories of the construction of gender (Biological, psychological, physiological, anthropological and Sociological)

- CEDAW, International covenants, laws and legislation

10 Hours.

Unit: 2

- Feminism, Kinds of feminism, First & second wave feminism.
- Approaches to women's development
- Contextualizing women's movements.
- Legislations for Women in India

10 Hours.

Unit: 3

- Mainstreaming gender in programs and policies
- Women and media
- Field visits.

12 Hours.

In addition to certificate courses, the Women's Unit also conducts trainings on gender issues, capacity building, sessions on gender sensitizations, various legislations and eco feminism.

Certificates will be distributed jointly by Bhodhi Vruksh and Jain College, KGF.

About the resource person:

The resource person Sagaya Shanthi A has a post graduate degree in social work and has been working with women for the past 20 years from various platforms. She has wide experience of handling certificate courses, and as a trainer. She presently heads the Women's unit at the Indian Social Institute, Bangalore.

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A Foundation Course in

HUMAN VALUES AND PROFESSIONAL ETHICS

30 Hrs Course on Human Values and Professional Ethics

I B. Sc - PMCs

UNIT - I

Course Introduction - Need, basic Guidelines, Content and Process for Value Education: Understanding the need, basic guidelines, content and process for Value Education. Self Exploration - what is it? - its content and process; 'Natural Acceptance' and Experiential Validation - as the mechanism for self exploration. Continuous Happiness and Prosperity - A look at basic Human Aspirations. Right understanding, Relationship and Physical Facilities - the basic requirements for fulfillment of aspirations of every human being with their correct priority. Understanding Happiness and Prosperity correctly - A critical appraisal of the current scenario. Method to fulfill the above human aspirations: understanding and living in harmony at various levels.

UNIT - II

Understanding Harmony in the Human Being - Harmony in Myself! : Understanding human being as a co-existence of the sentient 'I' and the material 'Body'. Understanding the needs of Self ('I') and 'Body' - Sukh and Suvidha. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer). Understanding the harmony of I with the Body: Sanyam and Swasthya; correct appraisal of Physical needs, meaning of Prosperity in detail. Programs to ensure Sanyam and Swasthya.

UNIT - III

Understanding Harmony in the Family and Society - Harmony in Human - Human Relationship: Understanding harmony in the Family the basic unit of human interaction. Understanding values in human - human relationship; meaning of Nyaya and program for its fulfillment to ensure Ubhay-tripti; **Trust (Vishwas) and Respect (Samman) as the foundational values of relationship.** Understanding the meaning of Vishwas; Difference between intention and competence. Understanding the meaning of Samman, Difference between respect and differentiation; the other salient values in relationship. Understanding the harmony in the society (society being an extension of family): Samadhan, Samridhi, Abhay, Sah-astiva as comprehensive Human Goals. Visualizing a universal harmonious order in society - Undivided Society (Akhand Samaj), Universal Order (Sarvabhaum Vyawastha) - from family to world family!

UNIT - IV

Understanding Harmony in the nature and Existence - Whole existence as Co-existence: Understanding the harmony in the Nature. Interconnectedness and mutual fulfillment among the four orders of nature - recyclability and self-regulation in nature. Understanding Existence as Co-existence (Sah-astiva) of mutually interacting units in all-pervasive space. Holistic perception of harmony at all levels of existence.

UNIT - V

Implications of the above Holistic Understanding of Harmony on Professional Ethics: Natural acceptance of human values, Definitiveness of Ethical Human Conduct, Basic for Humanistic Education, Humanistic Constitution and Humanistic Universal Order. Competence in professional ethics:

- a. Ability to utilize the professional competence for augmenting universal human order,
- b. Ability to identify the scope and characteristics of people-friendly and eco-friendly production systems,
- c. Ability to identify and develop appropriate technologies and management patterns for above production systems.

II Year III Semester BGB, BCA

CBCS

Cultural, Diversity and Society

Unit-1: Understanding the Diversity of Indian Society

(12-14 Hours)

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- Geographical diversity.
 - Religious diversity.
 - Cultural diversity.
 - Unity in Diversity.

Unit-2: Family, Caste, Village and Women in India

(12-14 Hours)

- Family as a basic institution of Indian Society; Indian family in transition.
- δ. Social stratification and disparities; the Caste System and its evils; the predicament of the weaker sections: Scheduled Castes and Tribes; Backward Classes and Religious Minorities.
- Rural society and its problems; Rural-Urban migration.
- Gender Discrimination; Violence against women; Measures to improve the status of women.

Unit-3: Contemporary Challenges before Indian Society

(12-14 Hours)

- Communalism and Religious Fundamentalism.
- Regionalism and Ethnocentrism.
- Globalization and mono-culturalism; *McDonaldization*.
- Child labour; Migrant labour; Bonded labour; Contract labour.
- Mass Media and its impact on society.

Environmental Studies

I Year I Sem B. Sc, BCA

Unit 1: Introduction to environmental studies

- Multidisciplinary nature of environmental studies;
- Scope and importance; Concept of sustainability and sustainable dev

Unit 2: Ecosystems

- What is an ecosystem? Structure and function of ecosystem; Energy ecosystem: food chains, food webs and ecological succession. Case : following ecosystems :
 - a) Forest ecosystem
 - b) Grassland ecosystem
 - c) Desert ecosystem
 - d) Aquatic ecosystems (pond s, streams, lakes, rivers, oceans, estua

Unit 3: Natural Resources: Renewable le and Non-renewable Resources

- Land resources and land use change; Land degradation, soil erosion : desertification.
- Deforestation: Causes and impacts due to mining, dam building on e forests, biodiversity and tribal populations.
- Water: Use and over-exploitation of surface and ground water, flood: conflicts over water (international & inter-state).
- Energy resources: Renewable and non renewable energy sources, use energy sources, growing energy needs, case studies.

Unit 4: Biodiversity and Conservation

- Levels of biological diversity: genetic, species and ecosystem diversi geographic zones of India; Biodiversity patterns and global biodivers
- India as a mega-biodiversity nation; Endangered and endemic species
- Threats to biodiversity: Habitat loss, poaching of wildlife, man-wild l biological invasions; Conservation of biodiversity: In-situ and Ex-situ biodiversity.
- Ecosystem and biodiversity services: Ecological, economic, social, et and Informational value.

(8 lectures)

Unit 5: Environmental Pollution

- Environmental pollution: types, causes, effects and controls; Air, water, soil and noise pollution
- Nuclear hazards and human health risks
- Solid waste management: Control measures of urban and industrial waste.
- Pollution case studies.

(8 lectures)

Unit 6: Environmental Policies & Practices

- Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture
- Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).
- Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.

(7 lectures)

Unit 7: Human Communities and the Environment

- Human population growth: Impacts on environment, human health and welfare.
- Resettlement and rehabilitation of project affected persons; case studies.
- Disaster management: floods, earthquake, cyclones and landslides.
- Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan.
- Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.
- Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).

(6 lectures)

Unit 8: Field work

- Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc.
- Visit to a local polluted site-Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems-pond, river, Delhi Ridge, etc.

(Equal to 5 lectures)

A Foundation Course in

Science and Society

II Year III Sem B.Com, BBA

BANGALORE UNIVERSITY

Soft Skills ('Mrudu Kousalya') Paper

3rd Semester B.A./B.Com./B.B.M./B.H.M. from 2015-16

SCIENCE AND SOCIETY

2 Credits

Max. Marks: 100

Hours of Teaching: 39-42

Objectives

We inhabit a world today that is shaped significantly by Science and Technology(S&T). S&T has enriched our lives and proved to be beneficial in our livelihoods. At the same time, many of the products of S&T pose challenges, and in ways, even threaten the existence of societies. This course, meant for students of the humanities/commerce streams, is to provide an overview of the nature of S&T and its interaction with society. It is meant to provide a broad introduction to the most significant discoveries and inventions of modern science that have changed our lives and to bring into focus the need for developing a critical appraisal of the issues related to the connection of S&T with society.

Notes to the Instructor(s)

1. All the units under this syllabus may be taught by any qualified science Post-Graduate teacher. However, the units may be taught in collaboration with the concerned faculty.
2. **Unit I (A):** A brief introduction to science and the practice of the scientific method as it has come to be understood in the 20th century, with a historical outline that provides a flavor of the developments that led to modern science and the contributions of different civilizations in this direction.
3. **Unit I (B):** A discussion on how the discoveries of science transform to technologies and also how technologies have enabled to ask new scientific questions with suitable examples.
3. **Unit II:** This unit explores through specific examples, the discoveries in science that have profoundly impacted civilizations. It is to provide some basic information and introduce some of the consequences of the products of these discoveries on the safety of humans.
4. **Unit III:** This unit is to explore the impact of S&T on socio-economic sphere and the lives of individuals. It will also delve into environmental issues concerned with the deployment of technologies on a large scale.

Unit I: Introduction to Science:

(13 Hours)

A. What is Science & History of Science

(4 hrs.)

- *What is Science? The revolutions in Physics - Contributions of Copernicus and Galileo; A brief history of the Renaissance in Europe; Age of Enlightenment; Industrial Revolution; Science in the 20th century.*

- *Modern Science and the Scientific Method* (2 hrs.)
A discussion on hypothesis, experimentation, criteria for experimentation, theorizing, and the open-ended nature of the scientific quest
 - *Science in other Cultures* (2 hrs.)
A brief exploration of science and technology in pre-modern era with emphasis on India in areas of Mathematics, Metallurgical Sciences, Medicine and Health
- B. The interdependence of Science and Technology
- *Molecular basis of disease and vaccination* (1hr.)
 - *Laser and photonics applications* (1 hr.)
 - *Microscopy and applications* (1 hr.)
- C. Science and the Public (2 hrs.)
- *Discussion on the need for an informed public in a democracy about S&T, Science policy and research funding, S&T and development*

Unit II: Modern Science and its impact on Societies:

(13 Hours)

- *Theory of Evolution: A lecture summarizing the modern theory of evolution of species and its implications* (1 hr.)
- *Discovery of Antibiotics: What is an antibiotic and how does it work? A brief history of the discovery of antibiotics and its impact on health. Adversities due to misuse of antibiotics* (2 hrs.)
- *Soaps, Detergents, Polymers and Chemicals: Their use and abuse* (2 hrs.)
- *Atomic Energy : Introduction to fission and fusion reactions, atomic reactors and power plants; nuclear weapons; Chernobyl accident* (2 hrs.)
- *Space Sciences: History of space exploration; Sputnik and US space programme; Modern satellites, Applications in weather prediction and analysis; remote sensing with reference to Indian space programme.* (2 hrs.)
- *Genetics and human health: Introduction to gene, DNA and basis of heredity; some issues of health linked to genetics* (2 hrs.)
- *Nanotechnology, Smart materials: Introduction to nanotechnology and examples of some devices that use nanotechnology. A brief survey of smart materials* (2 hrs.)

Unit III: Science, Life and Livelihoods:

(13 Hours)

- *India's agricultural productivity and dairy development: The Green and White Revolutions; The Gene Revolution and GM Crops* (3 hrs.)
- *Information Revolution: The impact of internet and web-based technologies* (2 hrs.)
- *Impact of high-tech devices on emotional, social and cognitive facets of humans* (2 hrs.)
- *Energy issues and renewable energy sources: solar, wind, bio-fuels* (3 hrs.)
- *Climate Change* (3 hrs.)