



Course structure: FEMINIST THEORY AND PRACTICE – BPS681

Course Title: FEMINIST THEORY AND PRACTICE

Credit Units: 4

Course Level: UG Level

Course Code: BPS681

Course Objectives:

- Enable students to understand the concept of feminist theory
- Help students to Understand Patriarchy
- Enable students to strengthen their ideas on Feminism

Pre-requisites: The students must possess fair understanding of Feminist Theory and Practice

Course Contents/Syllabus:

	Weightage (%)
Module I Approaches to understanding Patriarchy	
<ul style="list-style-type: none">• Feminist theorizing of the sex/gender distinction; Biologism versus Social Constructivism• Understanding Patriarchy and Feminism• Liberal, Socialist, Marxist, Radical feminism, New Feminist Schools/Traditions	25%
Module II History of Feminism	
<ul style="list-style-type: none">• Origins of Feminism in the West: France, Britain and United States of America• Feminism in the Socialist Countries: China, Cuba and USSR• Feminist issues and women's participation in anti-colonial and national liberation movements with special focus on India	25%
Module III The Indian Experience: Feminist Perspective	
<ul style="list-style-type: none">• Traditional Historiography and Feminist critiques, Social Reforms, Movement and position of women in India, History of Women's struggle in India• Family in contemporary India – Patrilineal and Matrilineal practices, Gender relations in the family, Patterns of Consumption: Intra Household Divisions, entitlements and bargaining, Property Rights	25%
Module IV Understanding Woman's Work and Labour Division	
<ul style="list-style-type: none">• Understanding Woman's Work and Labour-Sexual Division of Labour, Productive and Reproductive labour, Visible-invisible work – Unpaid (reproductive and child care), Underpaid and Paid work, Methods of computing women's work, Female headed households, Wage for House work, Me Too Movement	25%

Student Learning Outcomes:

- Understand the concepts of Liberal, Socialist, Marxist, Radical feminism, New Feminist Schools/Traditions

- Analyze the role of women in society
- Identify Patrilineal and Matrilineal practices
- Evaluate the origins of Feminism in the West
- Enable students to Understand Woman's Work and Labour Division

Pedagogy for Course Delivery: The course will use a mix of case studies, and participants are encouraged to engage in active interaction through classroom participation.

Lab/ Practical details, if applicable: N/A

Assessment/ Examination Scheme:

Components	Mid term	Attendance	Assignment/ Project/Seminar/Quiz	End term
Weightage (%)	15	5	10	70

Essential reading

- Jagger, Alison. (1983) *Feminist Politics and Human Nature*. U.K.: Harvester Press, pp. 25- 350.
- Ray, Suranjita. *Understanding Patriarchy*. Available at:
- Lerner, Gerda. (1986) *The Creation of Patriarchy*. New York: Oxford University Press.
- Rowbotham, Shiela. (1993) *Women in Movements*. New York and London: Routledge, Section I, pp. 27-74 and 178-218.
- Jayawardene, Kumari. (1986) *Feminism and Nationalism in the Third World*. London: Zed Books, pp. 1-24, 71-108, and Conclusion.
- Forbes, Geraldine (1998) *Women in Modern India*. Cambridge: Cambridge University Press, pp. 1-150.
- Eisentein, Zillah. (1979) *Capitalist Patriarchy and the Case for Socialist Feminism*. New York: Monthly Review Press, pp. 271-353.
- Funk, Nanette & Mueller, Magda. (1993) *Gender, Politics and Post-Communism*. New York and London: Routledge, Introduction and Chapter 28.
- Chaudhuri, Maiyatee. (2003) 'Gender in the Making of the Indian Nation State', in Rege, Sharmila. (ed.) *The Sociology of Gender: The Challenge of Feminist Sociological Knowledge*. New Delhi: Sage.
- Banarjee, Sikata. (2007) 'Gender and Nationalism: The Masculinisation of Hinduism and Female Political Participation', in Ghadially, Rehana. (ed.) *Urban Women in Contemporary India: A Reader*. New Delhi: Sage.
- Roy, Kumkum. (1995) 'Where Women are Worshipped, There Gods Rejoice: The Mirage of the Ancestress of the Hindu Women', in Sarkar, Tanika & Butalia, Urvashi. (eds.) *Women and the Hindu Right*. Delhi: Kali for Women, pp. 10-28
- Chakravarti, Uma. (1988) 'Beyond the Altekarian Paradigm: Towards a New Understanding of Gender Relations in Early Indian History', *Social Scientist*, Volume 16, No. 8.
- Banerjee, Nirmala. (1999) 'Analysing Women's work under Patriarchy' in Sangari, Kumkum & Chakravarty, Uma. (eds.) *From Myths to Markets: Essays on Gender*. Delhi: Manohar.
- Gandhi, Nandita & Shah, Nandita. (1991) *The Issues at Stake – Theory and Practice in Contemporary Women's Movement in India*. Delhi: Zubaan, pp. 7-72.
- Shinde, Tarabai (1993) 'Stri-Purush Tulna', in Tharu, Susie & Lalita, K. (eds.) *Women Writing in India, 600 BC to the Present. Vol. I*. New York: Feminist Press.
- Desai, Neera & Thakkar, Usha. (2001) *Women in Indian Society*. New Delhi: National Book Trust



Course Title: Stress & Coping Strategies Subject Name: Behavioural Science - VI

Course Level: Undergraduate

Semester-VI

Course Code: BSU-643

Course Credit: 01

Total Hours: 10

Course Outcomes:

- To develop an understanding the concept of stress its causes, symptoms and consequences.
- To develop an understanding the consequences of the stress on one's wellness, health, and work performance.

Course Contents:

Module I: Stress

(2 Hours)

- Meaning & Nature
- Characteristics
- Types of stress

Module II: Stages and Models of Stress

(2 Hours)

- Stages of stress
- The physiology of stress
- Stimulus-oriented approach.
- Response-oriented approach.
- The transactional and interact ional model.
- Pressure – environment fit model of stress.

Module III: Causes and symptoms of stress

(2Hours)

- Personal
- Organizational
- Environmental

Module IV: Consequences of stress

(2 Hours)

- Effect on behavior and personality
- Effect of stress on performance
- Individual and Organizational consequences with special focus on health

Module V: Strategies for stress management

(2 Hours)

- Importance of stress management
- Healthy and Unhealthy strategies
- Peer group and social support
- Happiness and well-being

Student learning outcomes

- Student will able demonstrate thorough understanding of stress and its effects
- Student will able to learn various coping strategies to deal stress effectively so to overcome the consequences and impact of stress on their health and wellbeing, ultimately it will enhance



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their performance.

Examination Scheme:

Evaluation Components	Attendance	Journal of Success (JOS)	Social Awareness Program (SAP) SAP Report/SAP Presentation	End Semester Exam	Total
Weightage (%)	5	10	15	70	100

Suggested Readings:

- Blonna, Richard; Coping with Stress in a Changing World: Second edition
- Pestonjee, D.M, Pareek, Udai, Agarwal Rita; Studies in Stress And its Management
- Pestonjee, D.M.; Stress and Coping: The Indian Experience



Course Title: Group Dynamics And Team Building

Subject Name: Behavioural Science - V

Course Level: Undergraduate

Course Code: BSU-543

Total Hours: 10

Semester-V

Course Credit: 01

Course Objective:

- To inculcate in the students an elementary level of understanding of group/team functions
- To develop team spirit and to know the importance of working in teams

Course Contents:

Module I: Group formation

(2 Hours)

- Definition and Characteristics
- Importance of groups
- Classification of groups
- Stages of group formation
- Benefits of group formation

Module II: Group Functions

(2 Hours)

- External Conditions affecting group functioning: Authority, Structure, Org. Resources, Organizational policies etc.
- Internal conditions affecting group functioning: Roles, Norms, Conformity, Status, Cohesiveness, Size, Inter group conflict.
- Group Cohesiveness and Group Conflict
- Adjustment in Groups

Module III: Teams

(2 Hours)

- Meaning and nature of teams
- External and internal factors effecting team
- Building Effective Teams
- Consensus Building
- Collaboration

Module IV: Leadership

(2 Hours)

- Meaning, Nature and Functions
- Self leadership
- Leadership styles in organization
- Leadership in Teams

Module V: Power to empower: Individual and Teams

(2 Hours)

- Meaning and Nature
- Types of power
- Relevance in organization and Society



Student learning outcomes

- Students will Develop critical and reflective thinking abilities
- Students will Demonstrate an understanding of group dynamics and effective teamwork
- Student will develop a range of leadership skills and abilities such as effectively leading change, resolving conflict, and motivating others
- Student will Gain knowledge and understanding of organization resources, policies, and involvement opportunities.
- Student will Develop strategies to recruit, retain, and continually motivate contributing members to the organization

Examination Scheme:

Evaluation Components	Attendance	Journal of Success (JOS)	Social Awareness Program (SAP) SAP Report/SAP Presentation	End Semester Exam	Total
Weightage (%)	5	10	15	70	100

Suggested Readings:

- Organizational Behaviour, Davis, K.
- Hoover, Judith D. Effective Small Group and Team Communication, 2002, Harcourt College Publishers
- Dick, Mc Cann & Margerison, Charles: Team Management, 1992 Edition, viva books
- Bates, A. P. and Julian, J.: Sociology - Understanding Social Behaviour
- Dressers, David and Cans, Donald: The Study of Human Interaction
- Lapiere, Richard. T – Social Change
- Lindzey, G. and Borgatta, E: Sociometric Measurement in the Handbook of Social Psychology, Addison – Welsley, US.
- Rose, G.: Oxford Textbook of Public Health, Vol.4, 1985.
- LaFasto and Larson: When Teams Work Best, 2001, Response Books (Sage), New Delhi
- J William Pfeiffer (ed.) Theories and Models in Applied Behavioural Science, Vol 2, Group (1996); Pfeiffer & Company
- Smither Robert D.; The Psychology of Work and Human Performance, 1994, Harper Collins College Publishers



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Course Title: Value & Ethics For Personal & Professional Development Subject

Name: Behavioural Science – IV

Course Level: Undergraduate

Course Code: BSU-443

Total Hours: 10

Semester-IV

Course Credit: 01

Course Outcomes:

This course aims at imparting an understanding of Values, Ethics & Morality among students for making a balanced choice between personal & professional development.

Course Contents:

Module I: Introduction to Values & Ethics

(2 Hours)

Meaning & its type
Relationship between
Values and Ethics
Its implication in one's life

Module II: Values Clarification & Acceptance

(2Hours)

Core Values-Respect, Responsibility, Integrity, Resilience, Care, & Harmony
Its process-Self Exploration
Nurturing Good values

Module III: Morality

(2 Hours)

Difference between morality, ethics & values
Significance of moral values

Module IV: Ethical Practice

(2 Hours)

Ethical Decision making
Challenges in its implementation
Prevention of Corruption & Crime

Module V: Personal & Professional Values

(2 Hours)

Personal values-Empathy, honesty, courage, commitment
Professional Values-Work ethics, respect for others
Its role in personality development
Character building-“New Self awareness”



Student learning outcomes

- Able to answer the question: What do I stand for?
- Ability to apply a coherent set of moral principles within professional and specialized contexts
- Willing to make unpopular but right decision
- Committed to working for justice and peace locally and globally

Examination Scheme:

Evaluation Components	Attendance	Journal of Success (JOS)	Social Awareness Program(SAP) SAP Report/SAP Presentation	End Semester Exam	Total
Weightage (%)	5	10	15	70	100

Text & References:

Cassuto Rothman, J. (1998). From the Front Lines, Student Cases in Social Work Ethics. Needham Heights, MA: Allyn and Bacon.

Gambrill, E. & Pruger, R. (Eds). (1996). Controversial Issues in Social Work Ethics, Values, & Obligations. Needham Heights, MA: Allyn and Bacon, Inc.



Course Title: Problem Solving And Creative Thinking

Subject Name: Behavioural Science - III

Course Level: Undergraduate

Course Code: BSU-343

Total Hours: 10

Semester-III

Course Credit: 01

Course Objective:

To enable the students:

- Understand the process of problem solving and creative thinking.
- Facilitation and enhancement of skills required for decision-making.

Course Contents:

Module I: Thinking as a tool for Problem Solving

(2 Hours)

- What is thinking: The Mind/Brain/Behavior
- Critical Thinking and Learning:
 - Making Predictions and Reasoning
 - Memory and Critical Thinking
 - Emotions and Critical Thinking
- Thinking skills

Module II: Hindrances to Problem Solving Process

(2 Hours)

- Perception
- Expression
- Emotion
- Intellect
- Work environment

Module III: Problem Solving

(2 Hours)

- Recognizing and Defining a problem
- Analyzing the problem (potential causes)
- Developing possible alternatives
- Evaluating Solutions
- Resolution of problem
- Implementation
- Barriers to problem solving:
 - Perception
 - Expression
 - Emotion
 - Intellect
 - Work environment



Module IV: Plan of Action

(2 Hour)

- Construction of POA
- Monitoring
- Reviewing and analyzing the outcome

Module V: Creative Thinking

(2 Hours)

- Definition and meaning of creativity
- The nature of creative thinking
 - Convergent and Divergent thinking
 - Idea generation and evaluation (Brain Storming)
 - Image generation and evaluation
 - Debating
- The six-phase model of Creative Thinking: ICEDIP model

Student learning outcomes

- Student will be able to understand and solve the problems effectively in their personal and professional life.
- Students will outline multiple divergent solutions to a problem,
- Student will able to create and explore risky or controversial ideas, and synthesize ideas/expertise to generate innovations.

Examination Scheme:

Evaluation Components	Attendance	Journal of Success (JOS)	Social Awareness Program (SAP) SAP Report/SAP Presentation	End Semester Exam	Total
Weightage (%)	5	10	15	70	100

Suggested Readings:

- Michael Steven: How to be a better problem solver, Kogan Page, New Delhi, 1999
- Geoff Petty: How to be better at creativity; Kogan Page, New Delhi, 1999
- Richard Y. Chang and P. Keith, Kelly: Wheeler Publishing, New Delhi, 1998.
- Phil Lowe Koge Page: Creativity and Problem Solving, New Delhi, 1996
- J William Pfeiffer (ed.) Theories and Models in Applied Behavioural Science, Vol 3, Management (1996); Pfeiffer & Company
- Bensley, Alan D.: Critical Thinking in Psychology – A Unified Skills Approach, (1998), Brooks/Cole Publishing Company.

Course Title: Individual, Society and Nation
Subject Name: Behavioural Science - II
Course Level: Undergraduate
Course Code: BSU243
Total Hours: 10

Semester-II
Course Credit: 01

Course Objective:

This course aims at enabling students towards:

- Understand the importance of individual differences
- Better understanding of self in relation to society and nation
- Facilitation for a meaningful existence and adjustment in society
- Inculcating patriotism and national pride

Course Contents:

Module I: Individual differences & Personality (2 Hours)

- Personality: Definition & Relevance
- Importance of nature & nurture in Personality Development
- Importance and Recognition of Individual differences in Personality
- Accepting and Managing Individual differences
- Intuition, Judgment, Perception & Sensation (MBTI)
- BIG5 Factors

Module II: Managing Diversity (2 Hours)

- Defining Diversity
- Affirmation Action and Managing Diversity
- Increasing Diversity in Work Force
- Barriers and Challenges in Managing Diversity

Module III: Socialization (2 Hours)

- Nature of Socialization
- Social Interaction
- Interaction of Socialization Process
- Contributions to Society and Nation

Module IV: Patriotism and National Pride (2 Hours)

- Sense of pride and patriotism
- Importance of discipline and hard work
- Integrity and accountability

Module V: Human Rights, Values and Ethics (2 Hours)

- Meaning and Importance of human rights
- Human rights awareness
- Values and Ethics- Learning based on project work on Scriptures like- Ramayana, Mahabharata, Gita etc.

Student learning outcomes

- Student will be able to identify, understand, and apply contemporary theories of leadership to a wide range of situations and interactions
- Student will be able to understand and respect individual difference, so to enhance the relationship

- Learn social responsibility and develop a sense of citizenship
- Student will be able to identify and understand the impact of culture on one's leadership style

Examination Scheme:

Evaluation Components	Attendance	Journal of Success (JOS)	Social Awareness Program (SAP) SAP Report/SAP Presentation	End Semester Exam	Total
Weightage (%)	5	10	15	70	100

Suggested Readings:

- Davis, K. Organizational Behaviour,
- Bates, A. P. and Julian, J.: Sociology - Understanding Social Behaviour
- Dressler, David and Cans, Donald: The Study of Human Interaction
- Lapiere, Richard. T – Social Change
- Lindzey, G. and Borgatta, E: Sociometric Measurement in the Handbook of Social Psychology, Addison – Welsley, US.
- Rose, G.: Oxford Textbook of Public Health, Vol.4, 1985.
- Robbins O.B.Stephen;. Organizational Behaviour



Course Title: Understanding Self For Effectiveness

Subject Name: Behavioural Science - I

Course Level: Undergraduate

Course Code: BSU-143

Total Hours: 10

Semester-I

Course Credit: 01

Course Objective:

This course aims at imparting an understanding of:

- Understanding self & process of self exploration
- Learning strategies for development of a healthy self esteem
- Importance of attitudes and its effective on personality
- Building Emotional Competency

Course Contents:

Module I: Self: Core Competency

(2 Hours)

- Understanding of Self
- Components of Self – Self identity
- Self concept
- Self confidence
- Self image

Module II: Techniques of Self Awareness

(2 Hours)

- Exploration through Johari Window
- Mapping the key characteristics of self
- Framing a charter for self
- Stages – self awareness, self acceptance and self realization

Module III: Self Esteem & Effectiveness

(2 Hours)

- Meaning
- Importance
- Components of self esteem
- High and low self esteem
- Measuring your self esteem

Module IV: Building Positive Attitude

(2 Hours)

- Meaning and nature of attitude
- Components and Types of attitude
- Importance and relevance of attitude

Module V: Building Emotional Competence

(2 Hours)

- Emotional Intelligence – Meaning, components, Importance and Relevance
- Positive and negative emotions
- Healthy and Unhealthy expression of emotions



Student learning outcomes

- Student will Develop accurate sense of self
- Student will nurture a deep understanding of personal motivation
- Student will develop thorough understanding of personal and professional responsibility
- Student will able to analyse the emotions of others for better adjustment.

Examination Scheme:

Evaluation Components	Attendance	Journal of Success (JOS)	Social Awareness Program (SAP) SAP Report/SAP Presentation	End Semester Exam	Total
Weightage (%)	5	10	15	70	100

Suggested Readings:

- Organizational Behaviour, Davis, K.
- Hoover, Judhith D. Effective Small Group and Team Communication, 2002, Harcourt College Publishers
- Dick, Mc Cann & Margerison, Charles: Team Management, 1992 Edition, viva books
- Bates, A. P. and Julian, J.: Sociology - Understanding Social Behaviour
- Dressler, David and Cans, Donald: The Study of Human Interaction
- Lapiere, Richard. T – Social Change
- Lindzey, G. and Borgatta, E: Sociometric Measurement in the Handbook of Social Psychology, Addison – Welsley, US.
- Rose, G.: Oxford Textbook of Public Health, Vol.4, 1985.
- LaFasto and Larson: When Teams Work Best, 2001, Response Books (Sage), New Delhi
- J William Pfeiffer (ed.) Theories and Models in Applied Behavioural Science, Vol 2, Group (1996); Pfeiffer & Company
- Smither Robert D.; The Psychology of Work and Human Performance, 1994, Harper Collins College Publishers

ENVIRONMENTAL STUDIES-II

Course Code: EVS– 242

Credit Units: 02

Course Contents:

Module I: Environmental Pollution

Definition, causes, effects and control measures of:

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

Solid waste management: Causes, effects and control measures of urban and industrial wastes. Role of an individual in prevention of pollution. Pollution case studies. Disaster management: floods, earthquake, cyclone and landslides.

Module II: Social Issues and the Environment

From unsustainable to sustainable development, Urban problems and related to energy, Water conservation, rain water harvesting, watershed management

Resettlement and rehabilitation of people; its problems and concerns Case studies.

Environmental ethics: Issues and possible solutions

Climate change, Global warming, Acid rain, Ozone layer depletion, Nuclear Accidents and Holocaust case studies.

Fireworks/Crackers – Introduction, ill effects on environment and humans.

Wasteland reclamation, Consumerism and waste products, Environmental Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act

Issues involved in enforcement of environmental legislation Public awareness

Module III: Human Population and the Environment

Population growth, variation among nations

Population explosion – Family Welfare Programmes

Environment and human health

Human Rights

Value Education

HIV / AIDS

Women and Child Welfare

Role of Information Technology in Environment and Human Health

Case Studies

Module IV: Field Work

Visit to a local area to document environmental assets-river / forest/ grassland/ hill/ mountain. Visit to a local polluted site – Urban / Rural / Industrial / Agricultural. Study of common plants, insects, birds. Study of simple ecosystems-pond, river, hill slopes, etc (Field work equal to 5 lecture hours)

Examination Scheme:

Components	CT	HA	S/V/Q	A	ESE
Weightage (%)	15	5	5	5	70

Text & References:

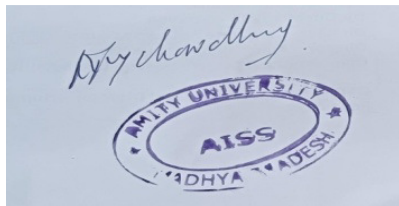
- Agarwal, K.C. 2001 Environmental Biology, Nidi Publ. Ltd. Bikaner.
- Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad 380 013, India, Email:mapin@icenet.net (R)
- Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p Clark R.S., Marine Pollution, Clarendon Press Oxford (TB)
- Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumbai, 1196p
- De A.K., Environmental Chemistry, Wiley Eastern Ltd. Down to Earth, Centre for Science and Environment (R)
- Gleick, H.P. 1993. Water in Crisis, Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute Oxford Univ. Press. 473p
- Hawkins R.E., Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay (R) Heywood, V.H & Waston, R.T. 1995. Global Biodiversity Assessment. Cambridge Univ. Press 1140p.
- Jadhav, H & Bhosale, V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284 p. McKinney, M.L. & School, R.M. 1996. Environmental Science Systems & Solutions, Web enhanced edition. 639p.
- Mhaskar A.K., Matter Hazardous, Techno-Science Publication (TB) Miller T.G. Jr. Environmental Science, Wadsworth Publishing Co. (TB)
- Odum, E.P. 1971. Fundamentals of Ecology. W.B. Saunders Co. USA, 574p
- Rao M N. & Datta, A.K. 1987. Waste Water treatment. Oxford & IBH Publ. Co. Pvt. Ltd. 345p. Sharma B.K., 2001. Environmental Chemistry. Geol Publ. House, Meerut
- Survey of the Environment, The Hindu (M)
- Townsend C., Harper J, and Michael Begon, Essentials of Ecology, Blackwell Science
- Trivedi R.K., Handbook of Environmental Laws, Rules Guidelines, Compliances and Standards, Vol I and II, Enviro Media (R)
- Trivedi R. K. and P.K. Goel, Introduction to air pollution, Techno-Science Publication (TB) Wanger K.D., 1998 Environmental Management. W.B. Saunders Co. Philadelphia, USA 499p

**All Undergraduate Programme
(Environmental Studies I & II)**

For Academic Session 2020 -21

**Programme Structure
&
Curriculum & Scheme of Examination
2020**

**AMITY UNIVERSITY MADHYA PRADESH
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ENVIRONMENTAL STUDIES-I

Course Code: EVS – 142

Credit Units: 02

Course Contents:

Module I: The Multidisciplinary Nature of Environmental studies and Environment

Environmental Education: Definition, scope and importance, Need for public awareness, Environmental Agencies, Organisation and NGOs, Environment: Definition, importance, Segments. Case Studies related to environmental protection and role of teachers and students.

Module II: Natural Resources

Renewable and non-renewable resources:

Natural resources and associated problems

Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.

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

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

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

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

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

Role of an individual in conservation of natural resources.

Equitable use of resources for sustainable lifestyles.

Module III: Ecosystems

Concept of an ecosystem, Structure and function of an ecosystem, Producers, consumers and decomposers, Energy flow in the ecosystem, Ecological succession

Food chains, food webs and ecological pyramids

Introduction, types, characteristic features, structure and function of the following ecosystem:

- Forest ecosystem
- Grassland ecosystem
- Desert ecosystem
- Aquatic ecosystems (ponds, streams, lakes, rivers, ocean estuaries)

Module IV: Biodiversity and its conservation

Introduction – Definition: genetic, species and ecosystem diversity

Biogeographical classification of India

Value of biodiversity: consumptive use, productive use, social, ethical aesthetic and option values Biodiversity at global, national and local levels

India as a mega-diversity nation, Hot-spots of biodiversity

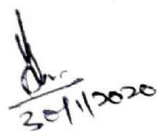
Threats to biodiversity: habitat loss, poaching of wildlife, man wildlife conflicts, Endangered and endemic species of India


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

Examination Scheme:

Components	CT	HA	S/V/Q	A	ESE
Weightage (%)	15	5	5	5	70


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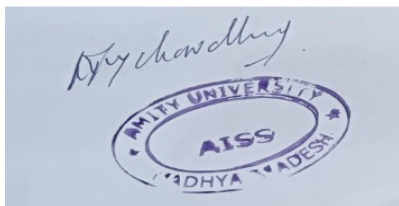

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Text & References:

- Chauhan B. S. 2009: Environmental Studies, University Science Press New Delhi.
- Dhameja S.K., 2010; Environmental Studies, Katson Publisher, New Delhi.
- Smriti Srivastava, 2011: Energy Environment Ecology and Society, Katson Publisher, New Delhi.
- Agarwal, K.C. 2001 Environmental Biology, Nidi Publ. Ltd. Bikaner.
- Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad 380 013, India, Email:mapin@icenet.net (R)
- Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p Clark R.S., Marine Pollution, Clanderson Press Oxford (TB)
- Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumabai, 1196p
- De A.K., Environmental Chemistry, Wiley Eastern Ltd. Down to Earth, Centre for Science and Environment (R)
- Gleick, H.P. 1993. Water in Crisis, Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute Oxford Univ. Press. 473p
- Hawkins R.E., Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay (R) Heywood, V.H & Waston, R.T. 1995. Global Biodiversity Assessment. Cambridge Univ. Press 1140p.
- Jadhav, H & Bhosale, V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284 p. Mckinney, M.L. & School, R.M. 1996. Environmental Science Systems & Solutions, Web enhanced edition. 639p.
- Mhaskar A.K., Matter Hazardous, Techno-Science Publication (TB) Miller T.G. Jr. Environmental Science, Wadsworth Publishing Co. (TB)
- Odum, E.P. 1971. Fundamentals of Ecology. W.B. Saunders Co. USA, 574p
- Rao M N. & Datta, A.K. 1987. Waste Water treatment. Oxford & IBH Publ. Co. Pvt. Ltd. 345p. Sharma B.K., 2001. Environmental Chemistry. Geol Publ. House, Meerut
- Survey of the Environment, The Hindu (M)
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