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BA5CRT23 ENVIRONMENT SCIENCE AND HUMAN RIGHTS

Core Course
No. of credit : 4
No. of contact hour: 5

MODULE I

Multidisciplinary nature of environmental studies

Definition, scope and importance Need for public awareness.

Natural Resources : Renewable and non-renewable resources ; **Natural resources and associated problems.**

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

Timber extraction, mining, dams and their effects on forest and tribal people.

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

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

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

e) **Energy resources:** Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, Case studies.

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

- Role of individual in conservation of natural resources.
- Equitable use of resources for sustainable life styles.

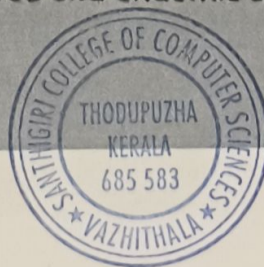
Ecosystems

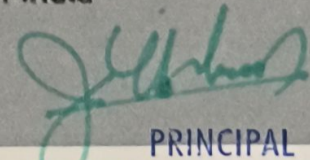
- Concept of an ecosystem
- Structure and function of an ecosystem
- Producers, consumers and decomposers
- Energy flow in the ecosystem
- Ecological succession
- Food chains, food webs and ecological pyramids.
- Introduction, types, characteristic features, structure and function of the given ecosystem:- Forest ecosystem

MODULE II

Biodiversity and its conservation

Introduction, Biogeographical classification of India ,Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values. 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





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KERALA, PIN : 685 583

Environmental Pollution

Definition, Causes, effects and control measures of: -

- Air pollution
- Water pollution
- Soil pollution
- Marine pollution
- Noise pollution
- Thermal pollution
- Nuclear hazards

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

Social Issues and the Environment- Urban problems 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, Consumerism and waste products, Environment Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and control of Pollution) Act, **Wildlife Protection Act, Forest Conservation Act**, Issues involved in enforcement of environmental legislation

MODULE III

Introduction to Environment and Business

Introduction of ways in which business has and is responding to environmental and business issues; business and sustainable development; issues of corporate/business greening.

MODULE IV

Green entrepreneurship

What is green entrepreneurship, definition, meaning, scope, nature and characteristics. Green entrepreneurship in India. Difference between **conventional and green entrepreneurship.**

MODULE V

Human Rights- An Introduction to Human Rights, Meaning, concept and development, Three Generations of Human Rights (Civil and Political Rights; Economic, Social and Cultural Rights).

Human Rights and United Nations – contributions, main human rights related organs - UNESCO, UNICEF, WHO, ILO, Declarations for women and children, Universal Declaration of Human Rights.

Human Rights In India – Fundamental rights and Indian Constitution, Rights for children and women, Scheduled Castes, Scheduled Tribes, Other Backward Castes and Minorities Environment and Human Rights - Right to Clean Environment and Public Safety: Issues of Industrial Pollution, Prevention, Rehabilitation and Safety Aspect of New Technologies such as Chemical and Nuclear Technologies, Issues of Waste Disposal, Protection of Environment



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Conservation of natural resources and **human rights: Reports, Case studies and policy formulation.** Conservation issues of western ghats- mention Gadgil committee report, Kasthuriengan report. Over exploitation of ground water resources, marine fisheries, sand mining etc.

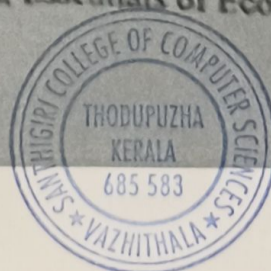
Internal: Field study

- Visit to a local area to document environmental grassland/ hill /mountain
- Visit a local polluted site – Urban/Rural/Industrial/Agricultural Study of common plants, insects, birds etc
- Study of simple ecosystem-pond, river, hill slopes, etc

(Field work Equal to 5 lecture hours)

REFERENCES

1. Bharucha Erach, Text Book of Environmental Studies for undergraduate Courses. University Press, IInd Edition 2013 (TB)
2. Clark.R.S., Marine Pollution, Clanderson Press Oxford (Ref)
3. Cunningham, W.P.Cooper, T.H.Gorhani, E & Hepworth, M.T.2001 Environmental Encyclopedia, Jaico Publ. House, Mumbai, 1196p .(Ref)
4. De A.K.Environmental Chemistry, Wiley Eastern Ltd.(Ref)
5. Down to Earth, Centre for Science and Environment (Ref)
6. Heywood, V.H & Watson, R.T. 1995. Global Biodiversity Assessment, Cambridge University Press 1140pb (Ref)
7. Jadhav.H & Bhosale.V.M. 1995. Environmental Protection and Laws, Himalaya Pub. House, Delhi 284p (Ref)
8. Mckinney, M.L & Schock.R.M. 1996 Environmental Science Systems & Solutions. Web enhanced edition 639p (Ref)
9. Miller T.G. Jr., Environmental Science, Wadsworth Publishing Co. (TB)
10. Odum.E.P 1971. Fundamentals of Ecology. W.B. Saunders Co. USA 574p (Ref)
11. Rao.M.N & Datta.A.K. 1987 Waste Water treatment Oxford & IBII Publication Co.Pvt.Ltd 345p (Ref)
12. Rajagopalan. R, Environmental Studies from crisis and cure, Oxford University Press, Published: 2016 (TB)
13. Sharma B.K., 2001. Environmental Chemistry. Geol Publ. House, Meerut (Ref)
14. Townsend C., Harper J, and Michael Begon, Essentials of Ecology, Blackwell Science (Ref)



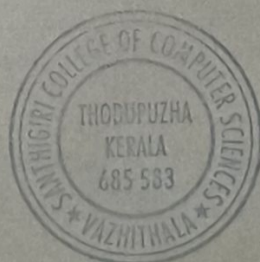
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15. Trivedi R.K., Handbook of Environmental Laws, Rules Guidelines, Compliances and Stadards, Vol I and II, Enviro Media (Ref)
16. Trivedi R. K. and P.K. Goel, Introduction to air pollution, Techno-Science Publication (Ref)
17. Wanger K.D., 1998 Environmental Management. W.B. Saunders Co. Philadelphia, USA 499p (Ref)
18. (M) Magazine (R) Reference (TB) Textbook

Human Rights

1. Amartya Sen, The Idea Justice, New Delhi: Penguin Books, 2009.
2. Chatrath, K. J.S., (ed.), Education for Human Rights and Democracy (Shimla: Indian Institute of Advanced Studies, 1998)
3. Law Relating to Human Rights, Asia Law House, 2001.
4. Shireesh Pal Singh, Human Rights Education in 21st Century, Discovery Publishing House Pvt.Ltd, New Delhi,
5. S.K.Khanna, Children And The Human Rights, Common Wealth Publishers, 1998. 2011.
6. Sudhir Kapoor, Human Rights in 21st Century, Mangal Deep Publications, Jaipur, 2001.
7. United Nations Development Programme, Human Development Report 2004: Cultural Liberty in Today's Diverse World, New Delhi: Oxford University Press, 2004.



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BA6CRT29 STRATEGIC MANAGEMENT

Core Course
No. of credit : 4
No. of contact hour: 5

MODULE I

Introduction to Strategic Management, Concept of Corporate **Strategy, Strategic Management Process**, The 7-S Framework, Corporate Policy and Planning in India.

MODULE II

Environmental Scanning, Industry Analysis, The synthesis of External Factors, External Factors Analysis Summary (EFAS), Internal Scanning, Value Chain Analysis, Synthesis of Internal Factors, Internal Factors Analysis Summary (IFAS)

MODULE III

Strategy Formulation, Strategic Factors Analysis Summary (SFAS), Business Strategy, Corporate Strategy, Functional Strategy, Strategic Choice.

MODULE IV

Strategy Implementation, Organization Structure, Corporate Culture, Diversification, Mergers and Acquisitions, Turnaround strategies, Portfolio strategy (concepts only)

MODULE V

Evaluation and control of **strategies-strategic control-standard-benchmarking-cost benefit analysis-performance gap analysis-responsibility centres**.
Other Strategic Issues, Small and Medium Enterprises, Non- Profit Organizations.

REFERENCES

- Robert A Pitts and David Lei, Strategic Management, 4th Edition Cengage Learning, 2006
- Francis Chrunilam, Strategic Management, Himalaya publications, Mumbai.
- K.Govindabhat, Strategic Management, Himalaya Publications, Mumbai.



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IT & ENVIRONMENT

COURSE OUTCOME (CO'S)

1. Achieved a deep and well rooted knowledge on the critical resources of nature.
2. Visualized the bad effects caused to the nature due to over encroachment of humans.
3. Well informed about the various access, learning and techniques in the field of education and research.
4. Created awareness on the various cyber security, cyber laws and concept of green computing.
5. Created awareness on Cybercrimes and Corporate Reputation.
6. Created a general awareness on local national and international reach out of human rights activities.

Syllabus

Module 1: Introduction to Internet and Environment

Internet- Internet as a knowledge repository, academic search techniques, creating cyber presence. Academic websites. Multidisciplinary nature of environmental studies-Definition, scope and importance, Need for public awareness.

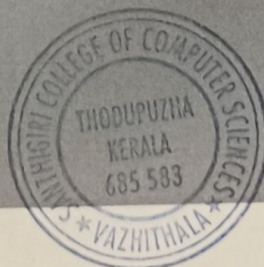
Module 2: Impact of IT in E-Learning

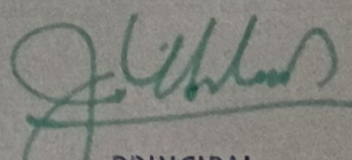
Introduction to use of IT in teaching and learning, Learning Management System-Moodle, Edmodo, etc. Academic services- A note on INFLIBNET, NPTEL, NICNET.

Module 3 : IT and Society

IT & Society- issues and concerns- digital divide, IT & development, the free software movement. IT industry: new opportunities and new threats, software piracy, cyber ethics, cybercrime, cyber threats, cyber security, privacy issues, cyber laws, cyber addictions, information overload, health issues- guidelines for proper usage of computers, internet and mobile phones. Impact of IT on language & culture.

Module 4 : E-waste and **Green Computing** E-waste- Problems- Solutions-Impact of e-waste in living beings and environment- a study on e-waste management in India. Green computing, definition, meaning, scope. Green computing in India.




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Module 5: Human Rights

An Introduction to Human Rights, Meaning, concept and development –History of Human Rights-Different Generations of Human Rights- Universality of Human Rights- Basic International Human Rights Documents - UDHR ,ICCPR,ICESCR.-Value dimensions of Human Rights

Human Rights and United Nations

Human Rights co-ordination within UN system- Role of UN secretariat- The Economic and Social Council- The Commission Human Rights-The Security Council and Human rights- The Committee on the Elimination of Racial Discrimination- The Committee on the Elimination of Discrimination Against Women- the Committee on Economic, Social and Cultural Rights- The Human Rights Committee- Critical Appraisal of UN Human Rights Regime.

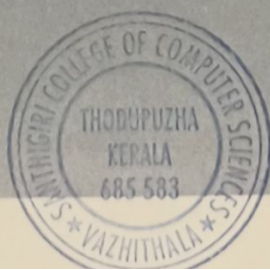
Human Rights National Perspective

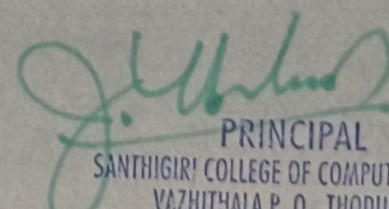
Human Rights in Indian Constitution – Fundamental Rights- The Constitutional Context of Human Rights-directive Principles of State Policy and Human Rights- Human Rights of Women-children minorities- Prisoners- Science Technology and Human Rights- National Human Rights Commission- State Human Rights Commission- Human Rights Awareness in Education.

Case Study: The students need to view the film "Samaksham", a film on environment produced by Mahatma Gandhi University Creations and submit a compulsory assignment reviewing film. The review is considered for internal mark assessment.

References:

1. K.L. James, The Internet: A User's Guide 2nd Revised edition, PHI publication.
2. Bharucha Erach, Text Book of Environmental Studies for undergraduate Courses. University Press, 11nd Edition 2013 (TB)(<https://www.ugc.ac.in/oldpdf/modelcurriculum/env.pdf>).
3. Barkha and U Rama Mohan, Cyber Law & Crimes, 3rd Edition, Asia Law House.
4. Rakesh Johri, E-waste: Implications, regulations, and management in India and current global best practices, Teri publications.
5. Alan Evans, Kendall Martin, Mary Anne Poatsy, Technology in Action, Pearson.




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COURSE 5-1: ENVIRONMENTAL STUDIES AND HUMAN RIGHTS (THEORY)

OBJECTIVE

Environmental Education helps students to understand how their decisions and actions affect the environment, builds knowledge and skills necessary to address complex environmental issues, as well as ways we can take action to keep our environment healthy and sustainable for the future. It encourages character building, and develop positive attitudes and values.

MODULE1

Multidisciplinary nature of environmental studies: Definition, scope and importance - Need for public awareness.

Natural Resources: Renewable and non-renewable resources: Natural resources and associated problems. a) Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction, mining, dams and their effects on forest and tribal people. b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems. c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies. d) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. e) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, Case studies. f) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification - Role of individual in conservation of natural resources - Equitable use of resources for sustainable life styles.

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 given ecosystem: - Forest ecosystem

MODULE2

Biodiversity and its conservation: Introduction - Biogeographical classification of India - Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values - 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

Environmental Pollution: Definition - Causes, effects and control measures of: - (Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution) - Nuclear hazards - 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.

Social Issues and the Environment: Urban problems 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 - Consumerism and waste products - Environment Protection Act - Air (Prevention and Control of Pollution) Act - Water (Prevention and control of Pollution) Act - Wildlife Protection Act - Forest Conservation Act - Issues involved in enforcement of environmental legislation - Public awareness



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MODULE3

Sound pollution: Dynamic range of hearing- Amplitude, frequency, Threshold of hearing, threshold of pain. Causes of Sound pollution - Industrialization, poor urban planning, social events, Transportation, Construction activities, Household chores, Effect of Sound pollution - Hearing problem, Health issue, Sleeping disorder, Cardiovascular issues, Trouble communicating, Effect on wild life. Prevention of Sound pollution

MODULE4

Media and environment: Media coverage of environmental issues; Agenda setting of environmental risks and its presentation, Role of various media in establishing and maintaining perspectives on environment; tendencies and limitations of green journalism; Media as bridge between science and public.

MODULE5

Human Rights- An Introduction to Human Rights, Meaning, concept and development, Three Generations of Human Rights (Civil and Political Rights; Economic, Social and Cultural Rights).

Human Rights and United Nations - contributions, main human rights related organs UNESCO, UNICEF, WHO, ILO, Declarations for women and children, Universal Declaration of Human Rights.

Human Rights in India - Fundamental rights and Indian Constitution, Rights for children and women, Scheduled Castes, Scheduled Tribes, Other Backward Castes and Minorities

Environment and Human Rights - Right to Clean Environment and Public Safety: Issues of Industrial Pollution, Prevention, Rehabilitation and Safety Aspect of New Technologies such as Chemical and Nuclear Technologies, Issues of Waste Disposal, Protection of Environment

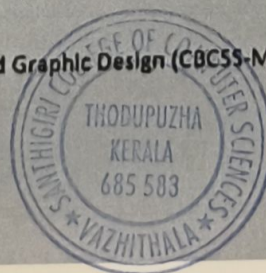
Conservation of natural resources and human rights: Reports, Case studies and policy formulation. Conservation issues of Western Ghats- mention Gadgil committee report, Kasthuriangan Report. Over exploitation of ground water resources, marine fisheries, sand mining etc.

Internal: Field study

- Visit to a local area to document environmental grassland/ hill /mountain
- Visit a local polluted site - Urban/Rural/Industrial/Agricultural Study of common plants, insects, birds etc
- Study of simple ecosystem-pond, river, hill slopes, etc

Reference

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2. Clark.R.S., Marine Pollution, Clanderson Press Oxford (Ref)
3. Cunningham, W.P.Cooper, T.H.Gorhanl, E & Hepworth, M.T.2001 Environmental Encyclopedia, Jaico Publ. House. Mumbal. 1196p .(Ref)
4. Dc A.K.Environmental Chemistry, Wiley Eastern Ltd.(Ref)



M3W

SWS00301

ENVIRONMENT AND DISASTER MANAGEMENT

Total Credits: 3

Total Hours: 54

Course Outcomes

- Develop perspective about the interrelatedness of human life and environment.
- Develop an understanding of problems arising out of environmental degradation and globalization.
- Study the role of social work practice in tackling environmental issues and disaster management.

Course Outline

Module 1 Concepts: Environment & Ecology

UNIT 1: People and Environment Interaction: Environment, Components of environment, Factors affecting Environment, Types of environment.

UNIT 2: Hazards-Geographical, Climatic and Atmospheric, The Interrelatedness of living organisms and natural resources

UNIT 3: Political Ecology - a frame work for understanding sources and political ramifications of environmental change

Module 2

Global Environmental Crisis and its linkages to the development process

UNIT 4: Climate change and Global warming-Causes, Problems and interventions

UNIT 5: Environmental politics and resource development regimes

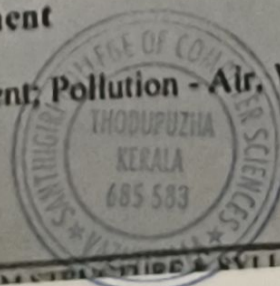
UNIT 6: Sustainable development - Management & Conservation change

UNIT 7: Energy Conservation and Management- Conventional and non-conventional sources of energy

Module 3

State of India's Environment

UNIT 8: Waste Management; Pollution - Air, Water, Soil, Noise, Light, Radioactive.



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UNIT 9: Impact of Pollutants on Human Life, Prevention and control of pollutions

UNIT 10: Laws related to environment. National Environment policies, National green tribunal, Environment Issues in India

Module 4

Social Work and Environment:

UNIT 11: **Green protocol, Green Social Work Initiatives**

UNIT 12: Environment Education,

UNIT 13: Environment Ethics,

UNIT 14: Promotion Environment Movements, Environment Management –EIA.

Module 5

Disaster

UNIT 15: Definition, Natural and Human made disasters, Stages of Disaster. Multiple causes & effects; Vulnerability, Hazards.

UNIT 16: Major Natural disaster-Cyclone, Earth quake. Land slide, Flood, Forest fire, Tsunami

UNIT 17: Development & Disaster; Preventive Measures

Module 6

Disaster Management and Social Work Responses

UNIT 18: Stages –Preparedness, rescue, relief, reconstruction & rehabilitation. Disaster Risk assessment, Risk Reduction in communities, Resilience

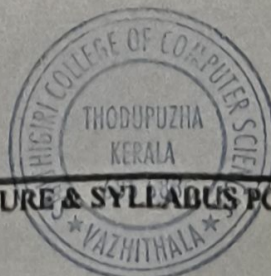
UNIT 19: Natural hazards disaster management and Mitigation. Disaster management Cycle- Before disaster, During a disaster ,After disaster

UNIT 20: Psycho social intervention.

UNIT 21: Role of government and voluntary organizations. National and state disaster management authority, Disaster Management Policy

UNIT 22: Social Work responses in disaster management

References



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- 1 Aggarwal, Nomita, (2003) *Social Auditing of Environmental Laws in India*,
- 2 Bharucha, Erach, (2005) *Text book of Environmental Studies for Undergraduate Courses*
- 3 Benimadhab Chatterjee, (2003) *Environmental laws: Implementation problems and perspectives*
- 4 Gulia, K S (2004), *Geneses of Disasters: Ramifications and Ameliorations*
- 5 Dasgupta, Rajdeep (2007) *Disaster management and rehabilitation*
- 6 Rajagopalan, R, (2009) *Environmental Studies : From Crisis to Cure*
- 7 Shukla, S K and Srivastava, P R (1992), *Human Environment: An Analysis*,
- 8 Shukla, S K and Srivastava, P R (1992), *Environmental pollution and chronic diseases*
- 9 Goel, P.K, (1996), *Environmental Guidelines and Standards in India*
- 10 Sharma J.P, (2004), *Comprehensive Environmental Studies*
- 11 Rajesh Dhankar (2006), *Environmental Studies*
- 12 Panday, P.N., (2010), *A Text book of Environmental Pollution*



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Core Course : ENVIRONMENT MANAGEMENT AND HUMAN RIGHTS

Instructional Hours: 90

Credit: 4

Module I (18 Hours)

Unit 1 : Multidisciplinary nature of environmental studies

(2 Hours)

Definition, scope and importance -need for public awareness.

Unit 2 : 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 forest 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 individual in conservation of natural resources- Equitable use of resources for sustainable life styles.

(10 Hours)

Unit 3: 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 given ecosystem:- Forest ecosystem

(6 Hours)

Module II (26 Hours)

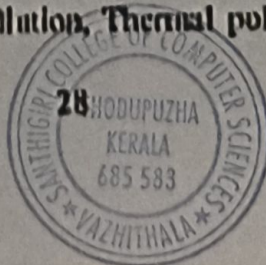
Unit 1: Biodiversity and its conservation

Introduction -Bio geographical classification of India -Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values-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

(8 Hours)

Unit 2: Environmental Pollution

Definition, Causes, effects and control measures of: - Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear hazards, Solid waste



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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. (8 Hours)

Unit 3: Social Issues and the Environment

Urban problems 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- Consumerism and waste products- Environment Protection Act - Air (Prevention and Control of Pollution) Act, Water (Prevention and control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act, Issues involved in enforcement of environmental legislation, Public awareness (10 Hours)

Module – III (15 Hours)

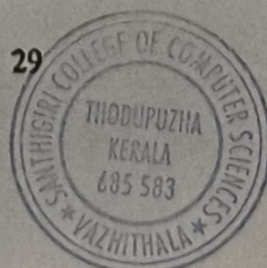
Recent developments- Green Accounting- Meaning- History- Scope and Importance- Importance- Advantages and limitations- Green Banking- Meaning- benefits- coverage- steps in green banking- environmental risks for banks- Green banking initiatives- International initiatives- Initiatives in India- Green Marketing- Meaning- Need and benefits- Challenges- Green marketing in India- Green washing and consequences- Eco tourism- significance- eco tourism activities in India- Opportunities and challenges – carbon credit and carbon exchanges (over view only) - Environmental audit- concept- need and scope (15 Hours)

Module – IV (13 Hours)

Right to Information Act 2005- Basic terms- Public authority- Competent authority- Appropriate Government- Third Part- Information – record- Right to information- Objectives of the Act- Features of the Act- Obligation of Public authority- Procedure for request of information- time limit- fee- ground of rejection- appeal- exemption from disclosure- Right to access information on specific issues- Banking transactions, insurance transactions, government dealing and related services (13 Hours)

Module – V (18 Hours)

Unit 1- Human Rights– An Introduction to Human Rights, Meaning, concept and development, Three Generations of Human Rights (Civil and Political Rights; Economic, Social and Cultural Rights).



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Unit-2 **Human Rights and United Nations** – contributions, main human rights related organs UNESCO, UNICEF, WHO, ILO, Declarations for women and children, Universal Declaration of Human Rights.

Human Rights in India – Fundamental rights and Indian Constitution, Rights for children and women, Scheduled Castes, Scheduled Tribes, Other Backward Castes and Minorities

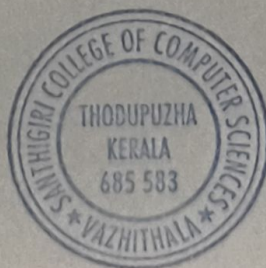
Unit-3 **Environment and Human Rights - Right to Clean Environment and Public Safety: Issues** of Industrial Pollution, Prevention, Rehabilitation and Safety Aspect of New Technologies such as Chemical and Nuclear Technologies, Issues of Waste Disposal, Protection of Environment Conservation of natural resources and human rights: Reports, Case studies and policy formulation. Conservation issues of Western Ghats- mention Gadgil committee report, Kasthurirangan report. Over exploitation of ground water resources, marine fisheries, sand mining etc. (18 Hours)

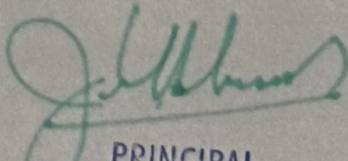
Assignment may include Field study involving

- Visit to a local area to document environmental grassland/ hill /mountain
- Visit a local polluted site – Urban/Rural/Industrial/Agricultural Study of common plants, insects, birds etc
- Study of simple ecosystem-pond, river, hill slopes, etc

Suggested Readings

1. Bharucha Erach, Text Book of Environmental Studies for undergraduate Courses. University Press, IInd Edition 2013 (TB)
2. Clark.R.S., Marine Pollution, Clanderson Press Oxford (Ref)
3. Cunningham, W.P.Cooper, T.H.Gorhani, E & Hepworth, M.T.2001 Environmental Encyclopedia, Jaico Publ. House. Mumbai. 1196p .(Ref)
4. De A.K.Environmental Chemistry, Wiley Eastern Ltd.(Ref)
5. Down to Earth, Centre for Science and Environment (Ref)
6. Heywood, V.H & Watson, R.T. 1995. Global Biodiversity Assessment, Cambridge University Press 1140pb (Ref)
7. Jadhav.H & Bhosale.V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284p (Ref)
8. Mckinney, M.L & Schock.R.M. 1996 Environmental Science Systems & Solutions. Web enhanced edition 639p (Ref)
9. Miller T.G. Jr., Environmental Science, Wadsworth Publishing Co. (TB)
10. Odum.E.P 1971. Fundamentals of Ecology. W.B. Saunders Co. USA 574p (Ref)
11. Rao.M.N & Datta.A.K. 1987 Waste Water treatment Oxford & IBII Publication Co.Pvt.Ltd.345p (Ref)




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PY5CRT 15 ENVIRONMENTAL PSYCHOLOGY AND HUMAN RIGHTS
Credit:4 Teaching Hours:3/week

Objectives

- To help students understand how their decisions and actions affect the environment, build knowledge and skills necessary to address complex environmental issues, as well as ways to take action that can keep our environment healthy and sustainable for the future thereby encouraging character building, positive attitudes and values.
- To develop understanding of basic human rights and appreciate the inherent value of being human, to assume responsibility to stand up for own and other's rights, develop empathy towards people from all social strata.

Module I

Unit 1 : Nature of environmental studies

- Definition, scope, importance and need for public awareness about environmental Science

Unit 2 : Natural Resources :

- Types of renewable and non-renewable resources. Depletion and exploitation of Natural resources, economic aspects, Need for protection and restoration of resources.
- Need and modes of conservation of natural resources, role of individuals.

Unit 3: Ecosystems:

- Concept of an ecosystem: case study: Introduction, types, characteristic features, structure and function of the given ecosystem:- Case study: Forest ecosystem
- Conservation issues in India and Kerala: social and cultural aspects: River Ganga, western Ghats- mention Gadgil committee report, Kasthuriangan report. (12 hrs)

Module II

Unit 1: Biodiversity and its conservation

- Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values.
- India as a mega-diversity nation. Hot-spots of biodiversity, Threats to biodiversity:

Unit 2: Environmental Pollution

- Definition, types, Causes, effects and control measures of pollution
- Disaster management: floods, earthquake, cyclone and landslides.

Unit 3: Environment related Social Issues

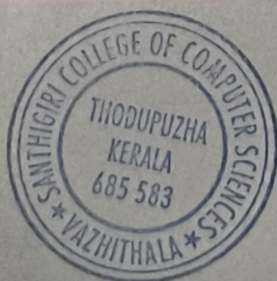
- problems related to energy and Water, Climate change, global warming , Consumerism and equity of resource distribution,.
- Environment Protection Act & Issues involved in enforcement of environmental legislation(20 hrs)

Module III

Unit 1. Environmental psychology

- Nature and Characteristics of Environmental Psychology

Unit 2. Concepts in environmental psychology:



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- **Environmental perception, Environmental cognition,** Environmental attitudes, beliefs, values & dispositions

Unit 3: Environment and human behaviour

- Nature and Human Nature: changing attitudes and practices. (12 hrs)

Module IV

Unit1. Understanding environment related Behaviours

- Theories of Environment related behaviours (Briefly) -Behaviour Relationships-Arousal, Environmental, Load, Adaptation Level and Ecological Approach.

Unit 2. Practicing environmentally responsible behaviours

- Changing cognition, attitude and Behavior to Save the Environment, Environmental Impact Assessment (Briefly)

Unit -3: Finding solutions

- Environmental ethics, legislation, equitable use of resources and sustainable life styles designing sustainable towns and cities (20 hrs)

Module – V

Unit 1- Human Rights

- Introduction to Human Rights, Meaning, concept and development,
- Three Generations of Human Rights (Civil and Political Rights; Economic, Social and Cultural Rights).

Unit-2 Human Rights and United Nations

- Contributions, main human rights related organs - UNESCO, UNICEF, WHO, ILO,
- Declarations for women and children, Universal Declaration of Human Rights.

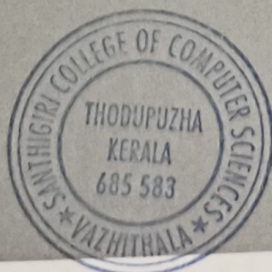
Unit-3 Human Rights concerns in India –

- Fundamental rights and Indian Constitution,
- Rights of children and women, Scheduled Castes, Scheduled Tribes, Other Backward Castes and Minorities(18 Hrs)

REFERENCES

Environmental Studies

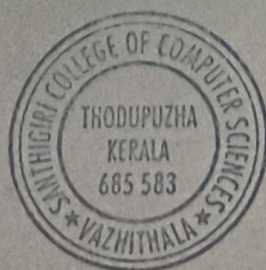
1. Bharucha Erach, Text Book of Environmental Studies for undergraduate Courses. University Press, IInd Edition 2013 (TB)
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8. Mckinney, M.L & Schock.R.M. 1996 Environmental Science Systems & Solutions. Web enhanced edition 639p (Ref)
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10. Odum.E.P 1971. Fundamentals of Ecology. W.B. Saunders Co. USA 574p (Ref)
11. Rao.M.N & Datta.A.K. 1987 Waste Water treatment Oxford & IBII Publication Co.Pvt.Ltd.345p (Ref).
12. Raven, P. H., Berg, L.R. & Hassenzahl, D. M. (2010). Environment (7th Edition) John Wiley & sons, Inc.



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