

		figurative drawings. Basic measurements and proportion.		
--	--	---	--	--

Evaluation pattern –

Internal Assessment:100 marks continuous evaluation which includes Class Assignments (75 Marks) and Test (25 Marks)

REFERENCE BOOKS:

1. Deshpande R., (2004), *"Colour Pencil"*, Jyotsna Prakashan Pune, 1stEdition.
2. Kamath V. (2006) *"Sketching and Drawing"*, Jyotsna Prakashan Pune, 2ndEdition.
3. Mulik M. (2004), *"Perspective"*, Jyotsna Prakashan Pune, 1stEdition.
4. Narvekar S., Narvekar A., *"Grade Examination-Drawing Made Easy"*, Navneet Publication (India) Ltd.
5. Shelar S. (2007), *"Still Life"*, Jyotsna Prakashan Pune, 1st Edition.
6. Vaze P., (2002), *"Draw and Paint"*, Jyotsna Prakashan Pune, 1stEdition.

4-Year U.G. Degree Syllabus

B Design – Foundation Course

Semester – I

Subject	Credits	Hours	Marks			
			Th	Pr	Th	Pr
Environment Studies	4	60	25	-	75	-
Theory			Internal	External	Total	

OBJECTIVES:

The learner will be able to -

- 1) Build awareness about physical environment and its components.
- 2) Gain Knowledge of natural resources and their types.
- 3) Develop the concept of ecology and its components.

CONTENT:

Block No	Objectives	Topic/Content Analysis	Assignments	% of weightage Marks
1	To be able	The Multidisciplinary Nature of	Group	25

to create awareness about physical environment and its components.	<p>Environmental Studies</p> <p>Unit 1- Definition, Scope and Importance, Need for public awareness</p> <p>Natural Resources</p> <p>Unit 1- Renewable and Non- Renewable Resources</p> <p>Unit 2- Natural Resources and Associated Problems-</p> <p>a) Forest Resources: Use and Over- exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.</p> <p>b) Water Resources: Use and Over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems</p> <p>c) Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.</p> <p>d) Food Resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilization- pesticide problems, water logging, salinity, case studies</p> <p>e) Energy Resources: Growing energy needs, renewable and non- renewable energy sources, use of alternate energy sources, case studies</p> <p>f) Land Resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification.</p> <p>Unit 3- Role of individual in conservation of natural resources Unit 4- Equitable use of resources for sustainable lifestyles</p>	Discussions And Test	
2To be able to create awareness of natural resources and their types.	<p>Ecosystems</p> <p>Unit 1- Concept of ecosystem Unit 2- Structure and function of ecosystem</p> <p>Unit 3- Producers, consumers and Decomposers</p> <p>Unit 4- Energy flow in the ecosystem</p> <p>Unit 5- Ecological succession</p> <p>Unit 6- Food chains, food webs and ecological pyramids.</p> <p>Unit 7- Introduction , types, characteristics features, structure and function of the following ecosystem- a) Forest ecosystem b) Grassland Ecosystem c) Desert ecosystem d) Aquatic ecosystem (ponds, streams, lakes, rivers, oceans, estuaries)</p> <p>Biodiversity and its conservation Unit 1- Introduction- Definition: genetic, species and ecosystem diversity.</p>	Group Discussions And Test	25

		Unit 2- Bio-geographical classification of India Unit 3- Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values Unit 4- India as a mega-diversity nation Unit 5- Hot-spots of biodiversity Unit 6- Threats to bio-diversity: habitat loss, poaching of wildlife, man-wildlife conflicts Unit 7- Endangered and endemic species of India Unit 8- Conservation of bio-diversity: In-Situ and Ex-situ conservation of biodiversity		
3	To be able to create awareness of ecology and its components.	Environmental Pollution Unit 1- 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 hazards Unit 2- Solid waste management: Causes, effects and control measures of urban and industrial waste Unit 3- Role of individual in prevention of pollution Unit 4- Pollution case studies Unit 5- Disaster Management: floods, earthquake, cyclone and landslides Social Issues and the Environment Unit 1- From Unsustainable to Sustainable development Unit 2- Urban problems related to energy Unit 3- Water conservation, rain water harvesting , watershed management Unit 4- Re-settlement and rehabilitation of people; its problems and concerns. Case studies Unit 5- Environmental ethics: Issues and possible solutions Unit 6- Climate changes, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies Unit 7-Wasteland reclamation Unit 8- Consumerism and waste products Unit 9- Environment Protection Act Unit 10-Air (Prevention and Control of Pollution) Act Unit 11- Water(Prevention and Control of Pollution) Act Unit 12- Wildlife Protection Act Unit 13- Forest	Group Discussions And Test	25

		Conservation Act Unit 14- Issues involved in enforcement of environmental legislation Unit 15- Public awareness		
4	To be able to create awareness of human activities on ecology and need to conserve the resources	Human Population and the Environment Unit 1- Population growth, variation among nation Unit 2- Population explosion- Family Welfare Program Unit 3- Environment and Human Health Unit 4- Human Rights Unit 5- Value Education Unit 6- HIV/AIDS Unit 7- Women and Child Welfare Unit 8- Role of Information Technology in Environment and Human health Unit 9- Case Studies Visit to local area to document environmental assets- a) rivers/forest/grassland/hill/mountain b) Local Pollution site- Urban/Rural/Industrial/Agricultural c) Study of common plants/insects/birds d) Study of simple ecosystems- ponds, rivers, hill slope etc.	Group Discussions And Test	25

Evaluation pattern –

Internal Assessment: Test and Field Work- To Be Converted In To 25

External Assessment: Final Exam - 75 Marks.

REFERENCES:

1. Agarwal, K.C. (2001), "Environmental Biology", Nidi Publi.Ltd. Bikaner.
2. Brunner R.C. (1989), "Hazardous Waste Incineration", McGraw Hill Inc.480p.
3. Clark R.S, "Marine Pollution", Clanderson Press Oxford (TP).
4. Cunningham, W.P.Cooper (2001), "Environmental Encyclopedia", Jaico Publ. House, Mumbai, 1196p M.T
5. De A.K, "Environmental Chemistry", WileelyEastem Ltd.
6. "Down to Earth", Center for Science and Environment ®.
7. Erach. B., "The Biodiversity of India", Mapin Publishing Pvt.Ltd, Ahmedabad- 380013, India.
8. Gleick, H.P (1993), "Water in crisis", Pacifics Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute. Oxford Univ. Press.473p