

**CBCS**  
**BA PROGRAMME COURSE**  
**SANSKRIT LANGUAGE AND LITERATURE- GENERAL**  
**SEMESTER -V**

**CORE VIII- SAMSKRTABHASHAYAM PARYAVARANAVIJNANAM**

**Credit: 4**

**Contact hours: 72**

**Aim of the Course:**

This course aims to impart environmental aspects in Sanskrit.

**Objective of the course**

1.To make students aware of nature.

2. To familiarize students with works in Sanskrit depicted environmental features.

Course Outline

## **Module I**

### **Unit 1 :Multidisciplinary nature of environmental studies**

Definition, scope and importance

**(2 hrs)**

Need for public awareness.

### **Unit 2 : 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.  
( 10 hrs)

### **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 hrs)

## **Module II**

### **Unit 1: 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

( 8 hrs)

## **Unit 2: 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 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. (8 hrs)

## **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 hrs)

**Module III –Environmental awareness through Sanskrit Literature-**

Vrkshayurveda....Verses 1 to 31 (10 hrs)

**Module IV- Ecological awareness in the work of Kalidasa- Raghuvamsa II**

Canto ,Verses 1 to 40. (10 hrs)

**Module – V (18 Hours)**

**Unit 1 - 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

**Unit 2 - 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



3. Cunningham, W.P.Cooper, T.H.Gorhani, E & Hepworth, M.T.2001 Environmental Encyclopedia, Jaico Publ. House. Mumbai. 1196p .(Ref)
4. Dc 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. Mekinney, 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)

- 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. Basic Documents In Human rights – Ian Brwnlie
2. Universal Human Rights in Teory And Practice - Jack Donelly
3. Future of Human Rightsd – Upendra Baxi
4. Understanding Human Rights An Overview – OPDhiman
5. Reforming Human Rights – D. P. Khanna
6. Human Rights In India Histotical Social And Political Perspectives – Chiranjivi J Nirmal
7. Human Rights In Postcolonial India – Edited by Om Prakash Dwivedi and V. G. Julie Rajan
8. Amartya Sen, The Idea Justice, New Delhi: Penguin Books, 2009.
9. Chatrath, K. J.S., (ed.), Education for Human Rights and Democracy (Shimla: Indian Institute of Advanced Studies, 1998)
10. Law Relating to Human Rights, Asia Law House, 2001.
11. Shireesh Pal Singh, Human Rights Education in 21<sup>st</sup> Century, Discovery Publishing House Pvt.Ltd, New Delhi,
12. S.K.Khanna, Children And The Human Rights, Common Wealth Publishers, 1998. 2011.
13. Sudhir Kapoor, Human Rights in 21<sup>st</sup> Century, Mangal Deep Publications, Jaipur, 2001.
14. United Nations Development Programme, Human Development Report 2004: Cultural Liberty in Today's Diverse World, New Delhi: Oxford University Press, 2004.



**BA DEGREE (UGCBCSS) PROGRAMME**  
**SANSKRIT (SPECIAL) NYAYA**  
**SEMESTER V**  
**CORE - V**  
**ENVIRONMENTAL SCIENCE HUMAN RIGHTS**  
**AND SANSKRIT**

**Credit 4**

**Contact hours 90**

**Aim of the Course**

It aims to sensitize the young generation on the importance of Nature. To sensitize them with the importance of the protection of the Nature. To make them know the contribution of our forefathers and at large of our country towards the protection of the Natural circumstance prevalent on the Earth. To impart knowledge of the human rights in the modern scenario.

**Objectives of the Course**

- To create an awareness on the basics of Environmental science and allied subjects.
- To impart general awareness on Nature, Natural resources and their Preservation
- To make the understand the effects of the ruin of the natural resources and How to avoid the ruin
- To make them aware of the nature, our fore fathers and their relation to the nature who they maintained this throughout their life.
- To make them aware of what is human right? what are they? where are they required? etc.

**Module I** - Introduction, Environment – Spatial and Time Scale of Environment, Weather and Climate, Habitat, Components of Environment, Types of Environment, Human Interference with the Environment.

**Module II** - Slokas 1 – 23 of Vrukshayurveda of Surapala (Ch. 1)

**Module III** - Slokas 24 – 34 of Vrukshayurveda of Surapala (Ch. 2)  
 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

**Module IV** - 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.

**Module V** - 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.

### **Essential Reading**

#### **1. Environmental Studies**

(for Undergraduate classes)

Dr. J.P. Sarma.

University Science Press, New Delhi.

2. **Vrukshayurveda** of Surapala Chapter 1 & 2

3. **Children And The Human Rights**

S.K.Khanna,

Common Wealth Publishers,1998.

### **Additional Reading**

1. Clark.R.S., Marine Pollution, Clarendon Press Oxford (Ref)

2. Cunningham, W.P.Cooper, T.H.Gorhani, E & Hepworth, M.T.2001 Environmental Encyclopedia, Jaico Publ. House. Mumbai. 1196p .(Ref)

3. De A.K.Environmental Chemistry, Wiley Eastern Ltd.(Ref)

4. Jadhav.H&Bhosale.V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284p (Ref)

5. Mekinney, M.L &Schock.R.M. 1996 Environmental Science Systems & Solutions. Web enhanced edition 639p (Ref)

6. Miller T.G. Jr., Environmental Science, Wadsworth Publishing Co. (TB)

7. Trivedi R. K. and P.K. Goel, Introduction to air pollution, Techno-Science Publication.

8. Wanger K.D., 1998 Environmental Management. W.B. Saunders Co. Philadelphia, USA 499p.
9. AmartyaSen, The Idea Justice, New Delhi: Penguin Books, 2009.
10. Chatrath, K. J.S., (ed.), Education for Human Rights and Democracy (Shimla: Indian Institute of Advanced Studies, 1998.
11. Law Relating to Human Rights, Asia Law House,2001.
12. Shireesh Pal Singh, Human Rights Education in 21<sup>st</sup> Century, Discovery Publishing House Pvt.Ltd, New Delhi,
13. SudhirKapoor, Human Rights in 21<sup>st</sup>Century,Mangal Deep Publications, Jaipur,2001.
14. United Nations Development Programme, Human Development Report 2004: Cultural Liberty in Today's Diverse World, New Delhi: Oxford University Press, 2004.

**Sanskrit Special Vedanta**  
**Semester V- Core VIII**  
**Environmental Awareness and Human Rights**

**Module - I (18 Hours)**

PrithviSukta ofAtharvaveda

**(1<sup>st</sup>Sukta of the 12<sup>th</sup> Kanda of Atharvaveda. 63 mantras)**

**Module - II (18 Hours)**

Mind and Environment (3<sup>rd</sup> Chapter of ERT 2)

**Module - III (18 Hours)**

Health and Environment (4<sup>th</sup> Chapter of ERT 2)

**Module - IV (18 Hours)**

Conservation of Bio-Diversity (7<sup>th</sup> Chapter of ERT 2)

**Module - V (18 Hours)**

**Unit 1 - 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

**Unit 2 - 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.

**Unit 3- 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.

**Essential Reading Texts**

1. VaidikSuktaSangrah. Gita Press, Gorakhpur.
2. Environment and ancient Sanskrit Literature. ArunaGoel, Published by Deep & Deep Publications Pvt.Ltd, New Delhi.

## **Sanskrit Special Sahitya**

### **Vth SEMESTER CORE VIII**

#### **ENVIRONMENTAL STUDIES IN SANSKRIT LITERATURE AND HUMAN RIGHTS**

Answers may be written in either Sanskrit or in English.

In Sanskrit Devanagari script should be used.

#### **VISION**

The importance of environmental science cannot be disputed. The need for the sustainable development is a key to the future of mankind. Continuing problems of pollution, solid waste disposal, degradation of forest, Depletion of ozone layers etc. have made every one aware of environmental issues. But the study of environment has so far not received adequate attention in our academic programme. Recognising this the Honourable Supreme Court directed the UGC to introduce the basic course on environment at every level in college education.

The syllabus of environmental studies includes five modules including Human Rights. The first module is the introduction of environmental studies according to the UGC directions. The second module is explaining the environmental awareness in Vedas . The third and fourth module expounds the emotional bond between the man and nature in classic literature. The fifth module is for Human rights.

#### **OBJECTIVES**

1. Environmental education encourages students to research investigate how and why things happen and make their own decisions about complex environmental issues by developing and enhancing critical and creative skill.
2. To develop the sense of awareness among the students about the environment and its various problems and to help the students in realizing the inter relationship between man and environment.
3. To help the students in acquiring the basic knowledge about environment and social norms that provide unity with the environmental characteristics and create positive attitude towards the environment.

#### **COURSE OUTLINE**

- **Module I** Nature Scope and importance of environmental studies and Solid waste management ,Environment activism in India
- **Module II** Environmental Awareness in Vedas
- **Module III** The attitude towards the environment in KautilyasArthashastra and Manusmriti

- **Module IV** Relationship of Man and Nature in the works of Kalidasa
- **Module V** Human Rights

#### Essential Reading

1. Environmental Studies , J P Sharma, Lakshmi Publications New Delhi Pages-4-10 (including both pages) *Environmental activism* an article by Dr. P V Raman Kutty in Indian Scientific Traditions Ed. By NVP Unithiri Calicut University pages 330-337( including both pages) {**Module I**}
2. *Man and nature relationship reflected in the Suklayajurveda*, and *Environmental awareness in Atharvaveda* articles by Nirmala Kulkarni and Mande K V respectively. Proceedings on the National seminar on Environmental Awareness Reflected in Sanskrit Literature. Ed. By V N Jha .pages 1-11(including both pages ) {**Module II**}
3. *The attitude towards environment reflected in Kautilyas.Arthasastra and Ecological Awareness reflected in Manusmrithy* articles by Ganesh Prasad panda and Sanjay D Deodikar respectively in Proceedings on the National seminar on Environmental Awareness Reflected in Sanskrit Literature. Ed. By V N Jha .pages 47-49 and 93-100 {**Module III**}
4. *Environmental Awareness in Kalidasa's works* article by M Sivakumara Swamyin Proceedings on the National seminar on Environmental Awareness Reflected in Sanskrit Literature. Ed. By V N Jha pages 143-147 {**Module IV**}

### 5 *Human Rights* Module - V (18 Hours)

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#### Unit 3- 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.

**SYLLABUS**  
**V Semester B.A.PROGRAMME**  
**SANSKRIT (SPECIAL) JYOTISHA**  
**Core VIII**  
**ENVIRONMENTAL STUDIES AND HUMAN RIGHTS**

**ज्योतिषे पर्यावरणविज्ञानीयम्**

Credit 4

Contact Hours 90

**Aim of the Course**

This course is aims to make aware the students about the importance of environment and Human Rights.

**Objectives of the Course**

1. To impart the knowledge of scope and significance of environmental studies.
2. To impart the knowledge about the importance of environmental protection.
3. To impart awareness on importance of environmental protection according to Sanskrit literature with special reference to Jyotisha.
4. To make awareness on environmental pollution.
5. To make aware the students the Human rights provided in the constitution of India.

**Course Outline**

**Module I**

पर्यावरणशास्त्रं किम् तस्य प्रयोजनं किम्।

**ModuleII**

गृहं गृहपरिसरञ्च कथं भवेदिति बृहत्संहितायाः वास्तुविद्याध्याये

**Module III –**

वृक्षपरिपालनं कथमिति बृहत्संहितायाः वृक्षायुर्वेदाध्याये

**Module IV –**

कीटनाशादीनां निर्माणप्रकारः

**ERT –**

Environmental studies – J P Sharma – Chapter 1  
Brihatsamhita – Vastuvidyadhyaya (from Sloka no 84 to 125)  
Brihatsamhita – Vrikshayurvedadhyaya - Complete

**Human Rights**

**Module - V (18 Hours)**



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MAHATMAGANDHI UNIVERSITY

Restructured Syllabus -CBCSS

B.A. Programme in Sanskrit (Special) Vyakarana

(2017 Admission onwards)

SEMESTER-V- CORE VIII

Environmental Science&Human Rights

**Core VIII**

Credits – 4

Contact Hours-90

Aim of the Course-

To Impart a knowledge of Human Rights

Objectives of the course

- 1.To make the students aware of the nature and its potential to influence the organism
2. To create an understanding of the environmental consideration in sanskrit poetry and sastraic works.

Module-1 Environmental vision of Kalidasa- Raghuvamsa canto-2 Slokas 1to 20

Module-2 Environmental vision of Kalidasa- Raghuvamsa canto-2 Slokas 21to 40

Module-3 Environmental vision of Kalidasa- Raghuvamsa canto-2 Slokas 41to 60

Module- 1V Environmental vision of Kalidasa- Raghuvamsa canto-2 Slokas 61to 75

**Module - V (18 Hours)**

**Unit 1 - Human Rights**

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Discrimination Against Women- the Committee on Economic, Social and Cultural Rights- The Human Rights Committee- Critical Appraisal of UN Human Rights Regime.

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Essential reading-

1 .Environmental Studies-by Dr J.P.sarma.Lakshmy publications New Delhi

2..Module -4Raghuvamsa canto2 of kalidasa

Additional reading

1.Keralathinte paristhitiprasnangal by Dr.R.V.G.Menon

2.Environmental awareness reflected in Centre for advanced study of Sanskrit  
University of Pune1991