

NATIONAL EDUCATION POLICY-2020

**Common Minimum Syllabus for all
Uttarakhand State Universities and Colleges for
First Three Years of Higher Education**

**PROPOSED CO-CURRICULAR SYLLABUS
ENVIRONMENT STUDIES AND VALUE EDUCATION
2021**

Curriculum Design Committee, Uttarakhand

Sr.No.	Name & Designation
1.	Prof. N.K. Joshi Vice-Chancellor , Kumaun University Nainital Chairman
2.	Prof. O.P.S. Negi Vice-Chancellor , Uttarakhand Open University Member
3.	Prof. P. P. Dhyani Vice-Chancellor , Sri Dev Suman Uttarakhand University Member
4.	Prof. N.S. Bhandari Vice-Chancellor, Soban Singh Jeena University Almora Member
5.	Prof. Surekha Dangwal Vice-Chancellor, Doon University, Dehradun Member
6.	Prof. M.S.M. Rawat Advisor, Rashtriya Uchchar Shiksha Abhiyan, Uttarakhand Member
7.	Prof. K. D. Purohit Advisor, Rashtriya Uchchar Shiksha Abhiyan, Uttarakhand Member

EXPERT COMMITTEE

S.N.	Name	Designation	Department	Affiliation
1.	Prof. Devi Prasad Tripathi	Vice-Chancellor Uttarakhand Sanskrit University, Haridwar		
2.	Prof. P.C. Kavidayal	Director, Sir J.C Bose Campus, Bhimtal	Management	Kumaun University, Nainital
3.	Prof Rajeev Upadhyay	Director IQAC	Geology	Kumaun University, Nainital
4.	Prof Atul Joshi	Head/ Dean	Commerce	Kumaun University, Nainital
5.	Prof Divya Upadhyay	Director	UGC HRDC	Kumaun University, Nainital
6.	Dr Bhaskar Chaudhary	Assistant Professor	Education	SSJ University, Almora
7.	Dr Ashutosh Bhatt	Assistant Professor	Computer Science	UOU
8.	Dr Jitendra Pandey	Assistant Professor	Computer Science	UOU
9.	Dr. Mahendra Rana	Assistant Professor	Pharmaceutical Sciences	Kumaun University, Nainital
10.	Dr. Nandan Singh Bisht	Assistant Professor	Economics	Kumaun University, Nainital
11.	Dr. Ritesh Sah	Assistant Director	UGC-HRDC	Kumaun University, Nainital
12.	Dr. Sparsh Bhatt	Assistant Professor	Statistics	Kumaun University, Nainital

SYLLABUS PREPARATION COMMITTEE

S.N	Name	Designation	Department	Affiliation
1.	Prof. Devi Prasad Tripathi	Vice-Chancellor Uttarakhand Sanskrit University, Haridwar		
2.	Prof Rajeev Upadhyay	Professor	Geology	Kumaun University, Nainital
3.	Prof. Jaya Tewari	Head	Sanskrit	Kumaun University, Nainital
4.	Dr. Lajja Bhatt	Assistant Professor	Sanskrit	Kumaun University, Nainital
5.	Dr. Mahendra Rana	Assistant Professor	Pharmaceutical Sciences	Kumaun University, Nainital
6.	Dr. Nandan Singh Bisht	Assistant Professor	Economics	Kumaun University, Nainital
7.	Dr. Reetesh Sah	Assistant Director	UGC-HRDC	Kumaun University, Nainital
8.	Dr. Sparsh Bhatt	Assistant Professor	Statistics	Kumaun University, Nainital
9.	Dr. Deepakshi Joshi	Assistant Professor	Law	Kumaun University, Nainital
10.	Dr Ashutosh Kumar Bhatt	Assistant Professor	Computer Science	Uttarakhand Open University, Haldwani
11.	Dr Manish Tripathi	Assistant Professor		S.S.J Campus, S.S. J University, Almora
12.	Dr. Jetendra Pnde	Assistant Professor	Computer Science	Uttarakhand Open University, Haldwani
13.	Dr. Bhaskar Chudhary	Assistant Professor	Education	S.S.J Campus, S.S. J University, Almora
14.	Dr. Archana Sah Negi	Assistant Professor	Pharmaceutical Sciences	Kumaun University, Nainital
15.	Dr. Pradeep Kumar	Teaching Personnel	Sanskrit	Kumaun University, Nainital

ENVIRONMENT STUDIES AND VALUE EDUCATION

Programme: Under Graduation		Year:1	Semester: 2
Subject: Co-curricular Course			
CourseCode: CCS 02	Course Title: 'Environment studies and Value Education		
<p>Course outcomes: The mission of the course on Human Values and Environmental Studies is to create morally articulate solutions to be truthful and just and to become responsible towards humanity. The course seeks to establish a continuous interest in the learners to improve their thought process with intent to develop a new generation of responsible citizens capable of addressing complex challenges faced by the society due to disruptions in human interactions effecting human values. This course works towards Building fundamental knowledge of the interplay of markets, ethics, and law, Look at various challenges faced by individual to counter unethical issues Look at core concepts for business ethics Look at core concepts of anti-corruption Look at core concepts for a morally articulate solution evolved to management issues in general, Issues of sustainable development for a better environment. To know how environmental degradation has taken place. Be aware of negotiations and international efforts to save environment. How to develop sustainably? Efforts taken up by UN in Sustainable Development. Efforts taken by India in Sustainable Development. The course intends to create a sense of how to be more responsible towards the environment. Upon finishing of the course students will be able to come up with using ethical reasoning for decision making and frame ethical issues as well as operationalise ethical choices. The course integrates various facets of human values and environment.</p>			
Credits: Nil		Core Compulsory	
Max. Marks: 100		Min. Passing Marks:40	
Total No. of Lectures-Tutorials-Practical (in hours per week): 4-0-0			
Unit	Topic	No. of Lectures	
Unit I	Renewable and Nonrenewable Natural resources. Ecosystem: Concept, structure & functions of ecosystem: producer, consumer, decomposer, food web, food chain, energy flow, Ecological pyramids Conservation of Biodiversity- In-situ & Ex- situ conservation of biodiversity.	07	
Unit II	Environmental pollution, Role of individual in Pollution control, Social Issues and Environment, Human Population & Environment Sustainable Development, Natural Hazards, India and UN Sustainable Development Goals Concept of circular economy and entrepreneurship Environment Protection Act 1986	08	

Unit III	International Advancements in Environmental Conservation Role of National Green Tribunal Air Quality Index Importance of Indian Traditional knowledge on environment Bio assessment of Environmental Quality Environmental Management System Environmental Impact Assessment and Environmental Audit	07
Unit IV	Human Values- Introduction- Values, Characteristics, Types, Developing Value system in Indian Organization, Values in Business Management, value based Organization, Trans –cultural Human values in Management. Swami Vivekananda's philosophy of Character Building, Gandhi's concept of Seven Sins, APJ Abdul Kalam view on role of parents and Teachers. Human Values and Present Practices – Issues: Corruption and Bribe , Privacy Policy in Web and social media, Cyber threats, Online Shopping etc. Remedies Corporate Social Responsibility- Nature, Levels, Phases and Models of CSR, Corporate Governance. CSR and Modern Business Tycoons Ratan Tata, Azim Premji and Bill Gates. Holistic Approach in Decision making- Decision making, the decision making process, The Bhagavad Gita: Techniques in Management, Dharma and Holistic Management. Case Studies	08

Suggested Reading:

1. A foundation course in Human Values and Professional Ethics by RR. Gaur, R. Sangalet.al
2. JUSTICE: What's the Right Thing to Do? Michael J.Sandel.
3. Human Values by A. N. Tripathi New AgeInternational
4. Environmental Management by N.K.Oberoi
5. <https://www.un.org/sustainabledevelopment/sustainable-development-goals/>
6. <https://www.india.gov.in/my-government/schemes>
7. <https://www.legislation.gov.uk/ukpga/2010/23/contents>
8. Daniel Kahneman, Thinking, Fast and Slow; Allen Lane
9. Environment Protection Act 1986; Universal Publications
10. Agarwal,K.C.2001EnvironmentalBiology,NidiPub!.Ltd. Bikaner.
11. BharuchaErach,TheBiodiversityofIndia,MapinPublishingPvt.Ltd.Ahmedabad-380013,India
12. BrunnerR.C.,1989,HazardousWasteIncineration,McGrawHi'llInc.480p
13. ClarkR.S.,MarinePollution,ClandersonPress Oxford(TB)
14. Cunningham,W.P.Cooper,T.H.Gorhani,E&Hepworth,M.T.200 I,EnvironmentalEncyclopedia,JaicoPub!.House.Mumbai.1196p
15. DeA.K.,EnvironmentalChemistry,WileyEasternLtd.
16. DowntoEarth,CentreforScienceandEnvironment(R)
17. Gleick,H.P.1993.Waterincrisis,Pacific InstituteforStudiesinDev.,Environment&Security.StockholmEnv.Institute.Oxford Univ.Press.473p
18. HawkinsR.E,Encyclopediaof IndianNaturalHistory,BombayNaturalHistorySociety,Bombay(R)
19. Heywood,Vil&Watson,R.T.1995.GlobalBiodiversityAssessment.CambridgeU niv.Press1140p.

20. Jadhav, H
& Bhosale, V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284p.
 21. McKinney, M.L. & Schoel, R.M. 1996. Environmental Science systems & Solutions, Webenhanced edition. 639p.
 22. Mhaskar A.K, Matter Hazardous, Techno-Science Publications (TB)
 23. Miller T.G.Jr., Environmental Science, Wadsworth Publishing Co. (TB)
 24. Odum, E.P. 1971. Fundamentals of Ecology. W.B. Saunders Co. USA, 574p
 25. Rao MN. & Dalla, A.K. 1987. Waste Water treatment. Oxford & IBH Publ. Co. Pvt. Ltd. 345p.
 26. Sharma B.K., 2001. Environmental Chemistry. Goel Publ. House, Meerut
 27. Survey of the Environment, The Hindu (M)
 28. Townsend C., Harper J, and Michael Begon, Essentials of Ecology, Blackwell Science (TB)
 29. Trivedi
R.K., Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standards, Vol I and II, Enviro Media (R)
 30. Trivedi R.K. and P.K. Goel, Introduction to air pollution, Techno-Science Publications (TB)
 31. Wagner K.D., 1998. Environmental Management. W.B. Saunders Co. Philadelphia, USA 499p
- (M) Magazine (R) Reference (TB) Textbook

Suggested Online Link: None

Suggested equivalent online courses: None

This course can be opted as a co-curricular course by the students of following subjects:

- B.A.
- B. Com
- B.B.A
- B.Sc.
- B.F.A
- B. Lib
- B.A.LL.B. (Hons)
- B.A.LL. B
- B.B.A.LL.B.
- B. Pharm

Suggested Continuous Evaluation (25 Marks):

Internal Assessment	Marks	External Assessment	Marks
Midterm Test	10	Written Examination	75
Assignment	5		
Presentation	5		
Attendance & class performance	5		

Course Prerequisites:

No pre-requisite required, open to all.