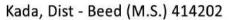


Shri Amolak Jain Vidya Prarsarak Mandal's Smt.S.K.Gandhi Arts, Amolak Science & P.H. Gandhi Commerce College,





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Workshop on Eco friendly Ganesha making













Principal S.A.J.V.P.M.Kade's Smt.S.K.Gandhi Arts, Amolok Science P.H.Gandhi Commerce College, Kada







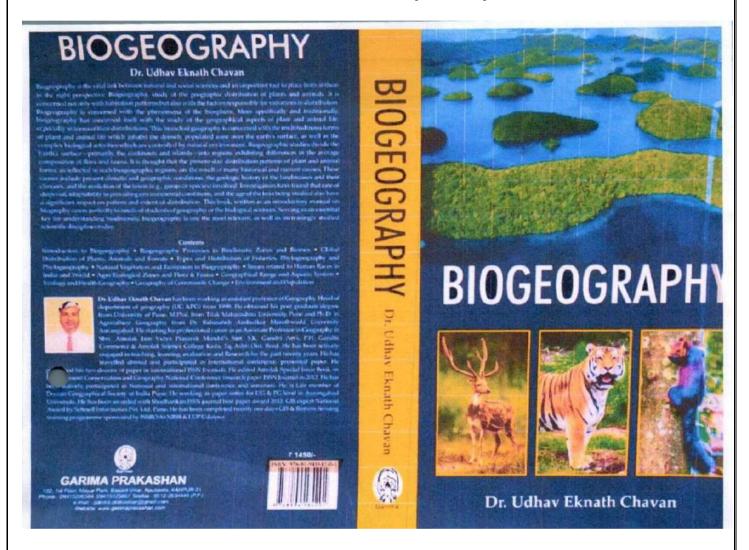


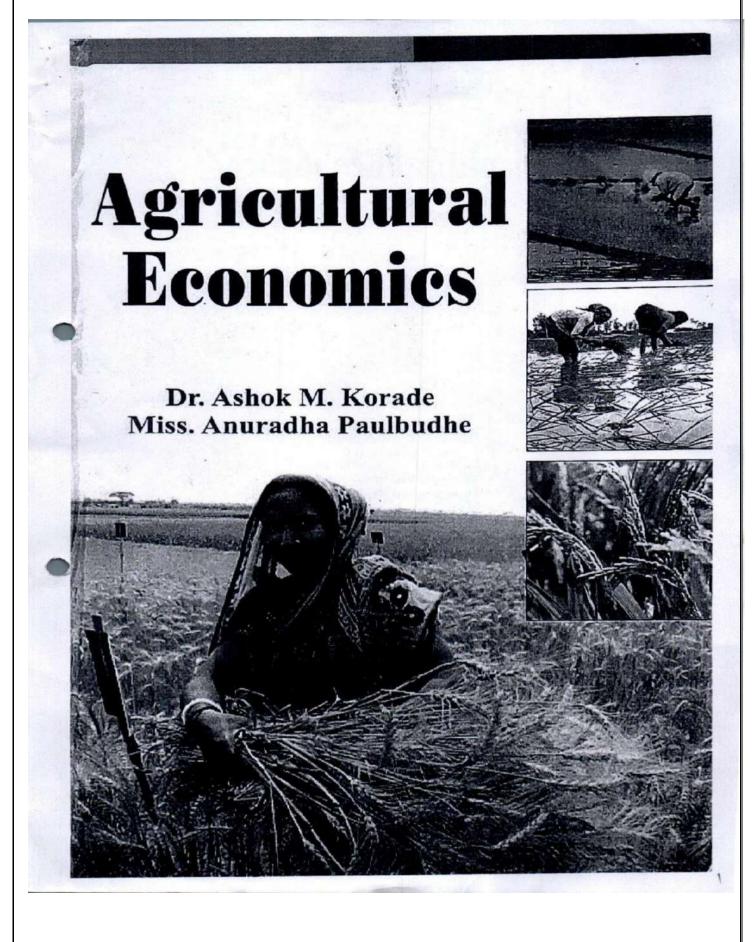












Agricultural Economics

About the author



Dr. Ashok Maruti Korade (born 1975) is working as Head & Associate Professor of Economics at Smt S.K.Gandhi Arts, Amolak Science & P.H.Gandhi Commerce College, Kada, Tal: -Ashti, Dist: -Beed, affiliated to Dr.Babasaheb Ambedkar Marathwada University Aurangabad, his Educational qualification is M.A. M.Phil, Ph.D in Economics, He joined the college on 05th Aug 1999 and been working as a Lecturer in Economics for last 22 years and also Head of Economics Department.

From the year 2003-04 to 2010-11 he worked as N.S.S. Programme officer and N.S.S. Divisional Coordinator from 2007 to 2011. He worked as Program officer Lifelong learning and Extension Department from 2011-12 till 2018-19. He is also a Ph.D research guide and 6 students are perusing Ph.D. He has written 45 research papers in university level, state level, national, international level, seminars, workshops, and working as Co-ordinator of Yashwantrao Chavan Maharashtra Open University, Nashik at the center of S.K.Gandhi College, Kada. He is also the Member of the Board of Economics Studies Lifelong learning and Extension Services Member of Dr. BAMU, Aurangabad till 2017-18 to 2021-22. This reference book will be useful for students of BA, MA, M.Phil, Ph.D.



Miss. Anuradha Paulbudhe is a reasearch Scholar doing Ph.D in Economics at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad under the guidance of Professor .Dr. Ashok M. Korade , S. K. Gandhi College, Head of department economics, Kada, Tal. Ashti. Dist. Beed. She Participated and published Research Papers in 2 International Conferences and also Published 10 Research Papers in National Seminars, and 4 articles published in State level Research Journals.

Contents

Introduction • Small Farming Systems • Economic Reforms Process on Indian Agricultural Sector • Industrial Vegetable, Fruit Growing and Packing Techniques • Cost of Crops Production • Distribution of Food Production • Agricultural Economic Policy and Development Planning & Management of Agriculture • Contract Farming • Agricultural Processing Industry • Agricultural Government Policy • Economy of Landlord Farming in Commercial Agriculture.



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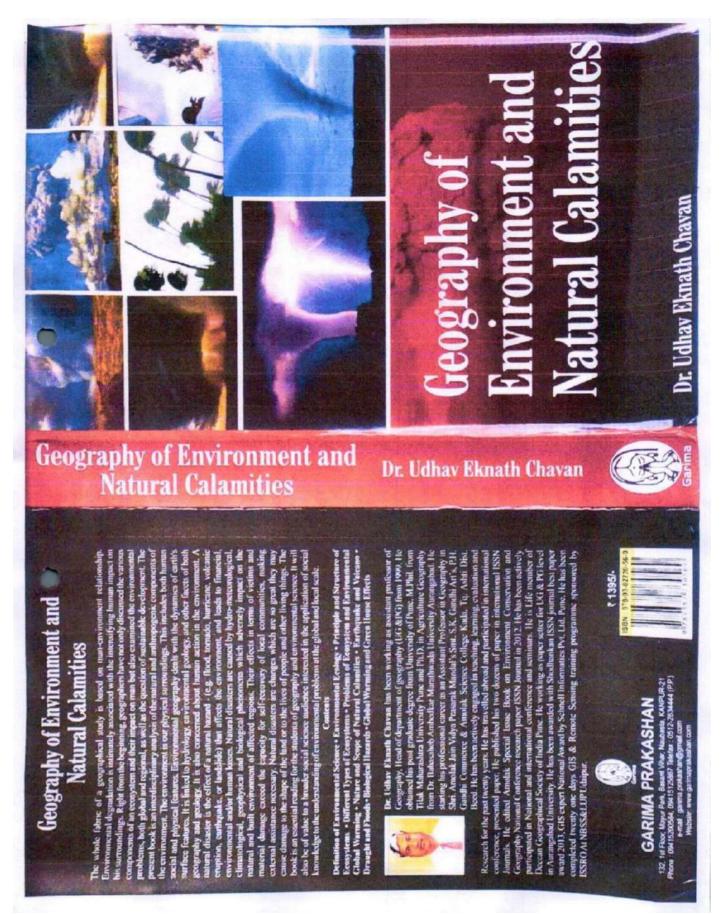


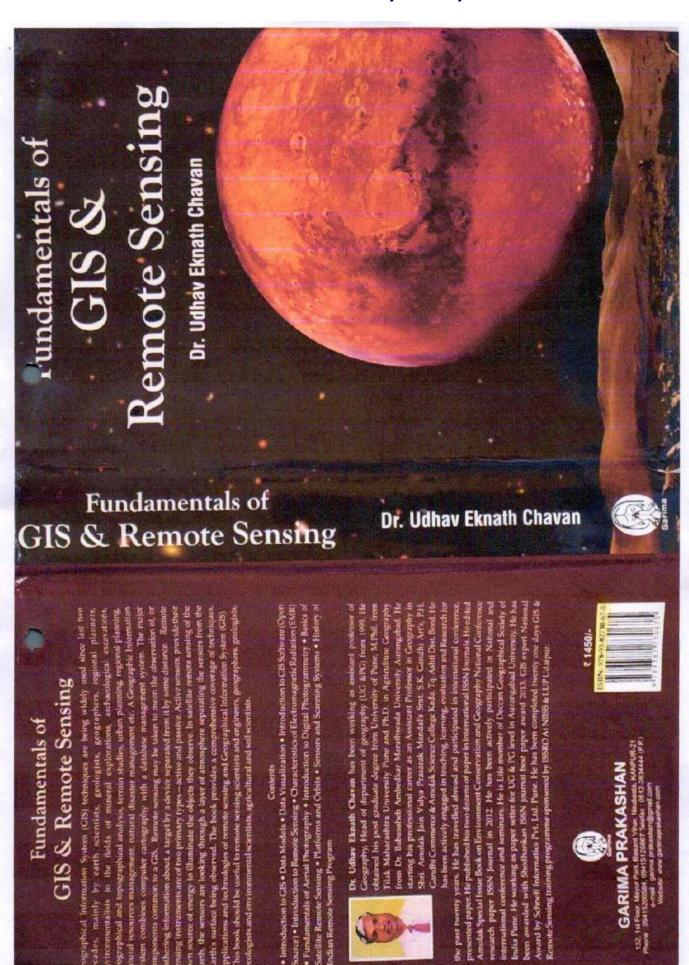


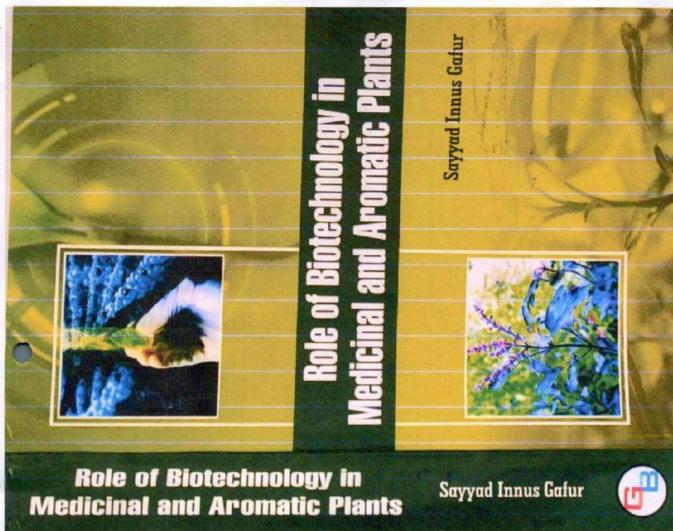
Agro-Tourism the way of sustainable development

Dr. Ashok Maruti Korade Mr. Kishor Baburao Dalve





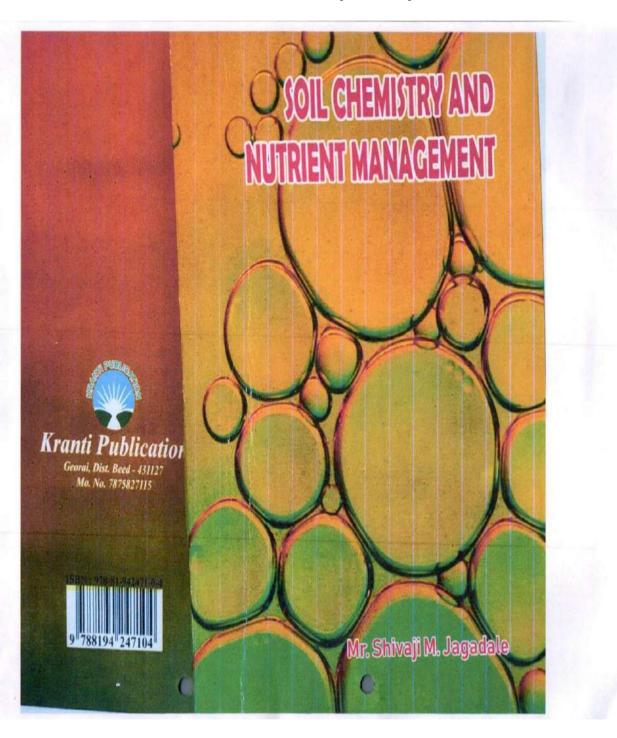


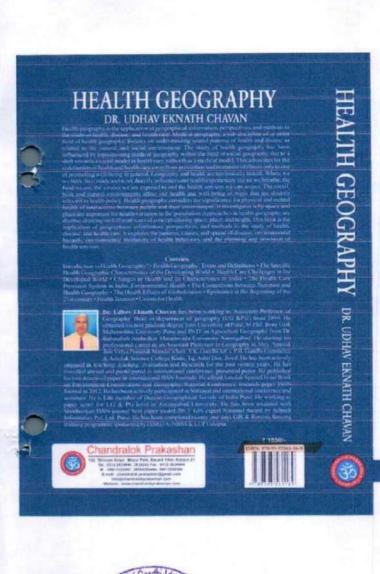




xtension activities in rural and slum area to enhance the capability and skills of the efficer in National service scheme he had not experience of immunity in relation to their service areas through N.S.S. drro - Genetic Engineering, Breeding of Aromatic Plants











DR. UDHAV EKNATH CHAVAN



Stal America Julin Vidya Prasarak Mandal's Shrimeti Shantabai Kantilial Gendhi Asta, America Science, Panalal Hiralal Commerce College Kada, Tal.Ashii, Dist.Beed



सहभाग जासवर राजीकी क्राधीमध्ये



यहमाग .

रविवार

दि,३० सप्टेंबर २०१८

पान ने.

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गांधी महाविद्यालयात स्वच्छता ही सेवा कार्यक्रम संपन्न

मध्ये डॉ. कडा, दि.२९ (प्रतिनिधी):-ोजी भारत सरकारच्या युवा कार्य व सर्व खेळ मंत्रालय राष्ट्रीय सेवा योजना ाँना क्षेत्रीय कार्यालय पुणे यांच्या धी आदेशानुसार कडा येथील गांधी गरी महाविद्यालयात स्वच्छता अभियान

जेत अंतर्गत राष्ट्रीय सेवा योजनेच्या गरा वर्धापनदिनानिमित्त स्वच्छता ही ला सेवा कार्यक्रम संपन्न झाला.

याप्रसंगी प्र. प्राचार्य डॉ या एस.एस. पाताळे यांनी विद्यार्थ्यांना ाचे स्वच्छतेची शपथ दिली, तसेच रा गर से यो च्या कार्यक्रमाधिकारी प्रा डॉ हम अरुणा बुलकर्णी यांनी राष्ट्रीय सेवा या योजनेचे महत्त्व सांगृन

1ध वर्धापनदिनाची माहिती दिली. गांधी इव महाविद्यालय हे नगर बीड

रस्त्याच्यालगत आहे.नेहमी



रहदारीचा असणारा रस्ता युवकांनी स्वच्छ केला रस्त्यालगतचा कचरा व प्लास्टीक गोळा करून त्याची विल्हेवाट लावण्यात आली. याप्रसंगी स्वयंसेवकांनी रा से यो गीत म्हणत स्वच्छता केली. यावेळी प्राचार्य डॉ एस एस पाताळे, प्रा अरुणा बुलकर्णी, प्रा धनश्री मुनोत, प्रा मिरा नाथ, प्रा पी एस

अनारसे, प्रा सय्यद आय जी, प्रा एस एम शिंदे, प्रा तुकाराम गोंदकर, प्रा चंद्रशेखर तळेकर, प्रा प्रशांत मेहेर, प्रा एस आर हासे, प्रा एस एम जगदाळे, प्रा सुनिता बोंबे, श्री. महेंद्र पेटकर, श्रीमती टकले ,लोमटे, गांबडे, गोंदकर, खिळे, अशोर्क, खांडे व विद्यार्थ्यौनी श्रमदान केले.

31.03.2018 31.03.2018

वारस प्रमाणपत्र बहल जानीर घोषणा.



राष्ट्रीय येवा भीतना य्यव्छता अभियान होतुन वहापिन हिन स्मात्ररा करण्यात आका



रवरहता करताना राष्ट्रीय एवग्रेमवक



कु. भियंका जारावर, कु. त्रिवनंदा जारावर पथाना २५ सादर कारताना.

जु. अनिकेम थारवे प्रियुव नवर,

्कु खिलनेदा जात जनात्य सादर करताना.





शाका परिसरातीलं स्वच्छता करतांना



ज्ञाकिन्या माजील वाज्य स्वरंदर करतोला





गारासामित धान द्याप करागे ना यी कीरायो



तुंबलेल्या जागरातील स्वान काढतांला स्वाचलेलीमर





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पर्यावरणशास्त्र अभ्यासक्रमासाठी ई-लर्निंग सुविधा उपलब्ध करुन देणेबाबत

महाराष्ट्र शासन उच्च व तंत्र शिक्षण विभाग आदेश क्रमांक एनजीसी २००९/(३९ /०९)/मशि २ मंत्रालय विस्तार भवन, मुंबई ४०० ०३२ दिनांक : २९ ऑगस्ट, २००९



प्रस्तावनाः

मा. सर्वांच्य न्यायालयाच्या आदेशानुसार विद्यापीठ अनुवान आयोग, नवी दिल्ली यांनी पर्यावरणशास्त्र हा अभ्यासक्रम देशातील सर्व विद्यापीठातील पदवी अभ्यासक्रमासाठी अनिवार्य विषय म्हणून लागू करण्याचे आदेश निगंमित केले आहेत. विद्यापीठ अनुवान आयोगाने पर्यावरण शास्त्र अभ्यासक्रम अनिवार्य केला असला तरी सदर विषयासाठी अनुवान तसेच नवीन पदे मंजूर केलेली नाहीत. हा अभ्यासक्रम सेल्फ लॉगिंग सीडीहारे व ऑन लाईन पध्यतीने उपलब्ध करून दिल्यामुळे विद्याच्योंना हा विषय प्रचलित पद्यतीने शिकविण्याची गरंज राहणार नाही. तसेच विद्यापीठ / महाविद्यालयांना कोणत्याही प्रकारच्या पायाभूत सुविधा उपलब्ध कराव्या लागणार नाहीत.

ई-लर्निंग च्या माध्यमातुन सदर अध्यासक्रम राबविण्याचे फायदे खालील प्रमाणे आहेत:

- महाविद्यालयांना हा अभ्यासक्रम शिकविण्यासाठी लागणारा प्रशासकीय / शैक्षणिक वेळ व खर्च वाचेल.
- २) सर्व विद्यार्थ्यांना सारख्याच दर्जाचा अभ्यासक्रम उपलब्ध असेल.
- सदरील अध्यासक्रमात पर्यावरण, प्रदूषण व सुजाण नागरिकत्व हा मुख्य गाभा असल्यामुळे राज्यातील विद्यार्थ्यांमध्ये पर्यावरण जागृती निर्माण होईल.
- अध्यासकार बीडी ! ऑनलाईन स्वरुपाल असल्यामुळे गो ग्रीन या पर्याचरण तस्वाचा अवलंब होईल.
- ५) हा अभ्यासक्रम ई-लॉनैंग सीडी द्वारे राबविल्यामुळे पर्यावरण जागृतीला हातभार लागेल.

शासन निर्णय : लॉयकॉस टेक्नॉलॉजी या कंपनी, वाशी, नवी मुंबई यांनी विद्यापीठ अनुदान आयोगाने निर्धारित केलेल्या अप्यासक्रमानुसार पर्यावरणशास्त्र हा अध्यासक्रम तयार केला असून तो इ-लर्निंग सुविधेद्वारे उपलब्ध करून देण्याची तयारी दर्शविली आहे. सदर अध्यासक्रम प्रती वर्ष प्रती विद्यार्थी रु. २००/-इतके शुल्क आकारून उपलब्ध करून देण्याची तयारी केंपनीने दर्शविली आहे.

पर्यावरणशास्त्र हा विषय ई-लॉनिंग सुविधेद्वारे शिकविण्याचे फायदे विचारात घेऊन फक्त खालील ५ शासकीय महाविद्यालयांमध्ये सदर विषय ई-लॉनिंग सुविधेद्वारे प्रायोगिक स्वरुपात शैक्षणिक वर्ष २००९-१०

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करीता सुरु करण्यास लॉयकॉस टेक्नॉलॉजी कंपनी, खाशी, नबी मुंबई या कंपनीस खालील अटींबर मान्यता देण्यात येत आहे.

अ.स.	संस्थेचे नांव च पत्ता	
8	सिडनहॅम वाणिज्य व अर्थशास्त्र महाविद्यालय, मुंबई	
2	एलफिन्स्टन महाविद्यालय, मुंबई	
3	राजाराम महाविद्यालय, कोल्हापूर	
x	वसंतराव नाईक कला व समाजविज्ञान संस्था, नागपूर (मॉरीस कॉलेज)	
4	शासकीय ज्ञान विज्ञान महाविद्यालय, गडचिरोली	

अटी व शर्ती :-

- सदर अध्यासक्रम ई-लर्निंग सुविधेहारे राजवित्यामुळे शासनावर कोणत्याही प्रकारचा आर्थिक भार पडणार नाही.
- सदर अभ्यासक्रमासाढी प्रती विद्यार्थी निर्धारित केलेल्या ठ. २००/- पेक्षा अधिक शुल्काची मागणी संस्था करणार नाही. सदर शुल्क संस्थेस महाविद्यालयामार्फत वसूल करुन दिले जाईल.
- वर्षभरात संस्थेची सेवा समाधानकारया न वाटल्यास शुल्क परत घेतृत ती बंद करण्यात थेईल.

४) सदर मान्यता फवत शैक्षणिक वर्ष २००९-१० करीता देण्यात येत आहे.

(चि.गा. चार्कर)

कार्यासन अधिकारी, महाराष्ट्र शासन

प्रत,

१. कुलसचिव, सर्व संबंधित अकृषी विद्यापीठे

२. संचालक, उच्च शिक्षण, महाराष्ट्र राज्य, पुणे

३. विभागीय सहसंचालक, उच्च शिक्षण, महाराष्ट्र राज्य,

४. सर्व संबंधित शासकीय महाविद्यालये

व्यवस्थापक तथा मुख्य कार्यकारी अधिकारी, लॉयकॉस टेक्नॉलॉजी कंपनी, वाशी, नबी मुंबई ६१,
 ४ था माळा, महाबीर सेंटर, सेक्टर १७, वाशी, नवी मुंबई.

६. निवड नस्ती/मशि-३

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Fac. of Science 31-08-2005 14(7) - 01-09-2005

PARATHWADA UNIVERSITA P



Syllabus OF

"Six Months Course in
Environmental Science"

(As per directives of Hon'ble Supreme Court)

[EFFECTIVE FROM 2005-06 AND ONWARDS]

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G-Envir-Sci

SIX MONTHS COMPULSORY CORE MODULE COURSE IN ENVIRONMENTAL STUDIES: FOR UNDERGRADUATES Teaching Methodologies

The Core Module Syllabus for Environmental Studies includes class room teaching and Field Work. The syllabus is divided into eight units covering 100 lectures. The first seven units will cover 70 lectures which are class room based to enhance knowledge skills and attitude to environment. Unit eight is based on field activities which will be covered in 30 lecture hours and would provide students first hand knowledge on various local environmental aspects. experience is one of the most effective learning tools for environmental concerns. This moves out of the scope of the text book mode of teaching into the realm of real learning in the field, where the teacher merely acts as a catalyst to interpret what the student observes or discovers in his/her own environment. Field studies are as essential as class work and form an irreplaceable synergistic tool in the entire learning process.

Course material provided by UGC for class room teaching and field activities be utilized.

The universities/colleges can also draw upon expertise of outside resource persons for teaching purposes.

Environmental Core Module shall be integrated into the teaching programmes of all undergraduate courses.

10

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G-Envir-Sci

Annual System: The duration of the course will be 100 lectures. The exam will be conducted along with the Annual Examination.

Semester System: The Environment course of 100 lectures will conducted in the second semester and the examination shall be conducted at the end of the second semester.

Credit system: The core course will be awarded 4 credits.

Exam Pattern: In case of awarding the marks, the question paper should carry 100 marks. The structure of the question paper being:

Part-A, Short answer pattern - 25 marks
Part-B, Essay type with inbuilt choice - 50 marks
Part-C, Field Work - 25 marks

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G-Envir-Sci

CORE MODULE SYLLABUS FOR ENVIRONMENTAL STUDIES
FOR UNDER GRADUATE COURSES OF ALL BRANCHES OF
HIGHER EDUCATION.

UNIT 1: The Multidisciplinary nature of environmental studies

Definition, scope and importance

(2 lectures)

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 forests 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.

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- 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 an individual in conservation of natural resources.
- Equitable use of resources for sustainable lifestyles.

UNIT 3: Ecosystems

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

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G-Envir-Sci

UNIT 4: Biodiversity and its conservation.

- Introduction Definition: genetic, species and ecosystem diversity.
- · Biogeographical classification of India.
- · India as a mega-diversity nation.
- Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values.
- Biodiversity at global, National and local levels.
- · 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.

UNIT 5: Environmental Pollution

Definition

- · Causes, effects and control measures of :-
- a) Air pollution
- b) Soil pollution
- c) Water pollution
- d) Marine pollution
- e) Noise pollution
- f) Thermal pollution
- g) Nuclear hazards

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- 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 lectures)

UNIT 6: Social Issues and the Environment.

- · From Unsustainable to Sustainable development
- · 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.
- Wasteland reclamation.
- Consumerism and waste products.
- Environment Protection Act.
- Air (Prevention and Control of Pollution) Act.
- Water (Prevention and Control of Pollution) Act.
- Wild life Protection Act.
- Issues involved in enforcement of environmental legislation.
- Public awareness.

UNIT 7: Human Population and the Environment.

- Population growth, variation among nations.
- Population explosion-family welfare programme.

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- · Human Rights.
- · Value Education.
- · Environment and human health.
- · ..HIV/AIDS.
- · Women and Child Welfare.
- Role of Information Technology in Environment and human health.
- · Case Studies.

(6 lectures)

UNIT 8: Field work

 Visit to a local area to document environmental assetsriver/forest/grassland/hill/mountain.

REPORT COMPULSORY

- Visit to a local polluted sites Urban Rural / Industrial / Agricultural.
- Study of common plants, insects, birds.
- Study of simple ecosystem pond, river, hill slopes, etc.
 (Field work Equal to 5 lecture hours)

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REFERENCES

- Agarwal, K. C. 2001 Environmental Biology, Nidi Publ. Ltd.Bikaner
- 2. Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad-380013, India, Email: mapin@icent.net (R)
- 3. Bruneer R. C., 1989, Hazardous Waste Incineration, McGraw Hill Inc.480p.
- 4. 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, Mumbai, 1196p
- 6. De A. K., Environmental Chemistry, Wiley Eastern Ltd.
- 7. 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. 437p
- 9. Hawkins R. E., Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay (R)
- Heywood, V. H. & Watson, R. T. 1995. Global Biodiversity Assessment. Cambridge University Press 114p
- Jadhav, H & Bhosale, V. M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284p
- Mckinney, M. L. & School. R. M. 1996 Environmental Science systems & Solution, Web enhanced edition. 639p
- 13. Mhaskar A. K, Matter Hazardous, Techno-Science Publications (TB)

Regulation 1473-Env.-Comp, compulsury

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G-Envir-Sci 14. Miller T. G. Jr. Environmental Science, Wadsworth Publishing Co. (TB)

- Odum, E. P. 1971. Fundamentals of Ecology. W. B. Saunders
 Co. USA, 574p.
- 16. Rao M. N. & Datta, A. K. 1987. Waste Water treatment. Oxford & IBH Publ. Co. Pvt. Ltd. 345p.
- Sharma B. K., 2001. Environmental Chemistry. Goel Publ. House, Meerut
- 18. Survey of the Environment, The Hindu (M)
- 19. Townsend C., Harper J, and Michael Begon, Essentials of Ecology, Blackwell Science (TB)
- Trivedi R. K., Handbook of Environmental Laws, Rules,
 Guidelines, Compliances and Standards, Vol I and II, Enviro
 Media (R)
- 21. Trivedi R. K. and P. K. Goel, Introduction to air pollution, Techno-Science Publications (TB)
- Wagner K. D., 1998. Environmental Management. W. B. Saunders Co. Philadelphia, USA 499p
 - (M) Magazine
 - (R) Reference
 - (TB) Textbook