



Janardan Bhagat Shikshan Prasarak Sanstha's
CHANGU KANA THAKUR
ARTS, COMMERCE & SCIENCE COLLEGE,
NEW PANVEL
(AUTONOMOUS)

Re-accredited 'A+' Grade by NAAC
'College with Potential for Excellence' Status Awarded by UGC
'Best College Award' by University of Mumbai

Program: B.Com.

Revised Syllabus of F.Y.B. Com. - Environmental Studies
Choice Based Credit & Grading System (75:25)
w.e.f. Academic Year 2019-20

Details of the course:

Sr. No.	Heading	Particulars
1	Title of Course	Environmental Studies
2	Eligibility for Admission	12 th Commerce/ Science of all recognised Board
3	Passing marks	35%
4	Ordinances/Regulations (if any)	---
5	No. of Semesters	Two
6	Level	U.G.
7	Pattern	Semester (75:25)
8	Status	Revised
9	To be implemented from Academic year	2019-2020

Preamble of the Syllabus:

Bachelor of Arts (B.A.) in Geography is a under graduation course of department of Geography, Changu Kana Thakur Arts, Commerce & Science college, new Panvel (Autonomous) The Choice Based Credit and Grading System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. This syllabus is prepared to give the sound knowledge and understanding of Geography to undergraduate students at first year of the B.A. degree course. The goal of the syllabus is to make the study of Geography as stimulating, interesting and relevant as possible. The syllabus is prepared by keeping in mind the aim to make students capable of studying Geography in academic and industrial courses. Also to expose the students and to develop interest in them in various fields of Geography. The new and updated syllabus is based on disciplinary approach with vigour and depth taking care of the syllabus is not heavy at the same time it is comparable to the syllabi of other universities at the same level. The students pursuing this course would have to develop understanding of various aspects of the Geography. The conceptual understanding, development of experimental skills, developing the aptitude for academic and professional skills, obtaining basic ideas and understanding of hyphenated techniques, understanding the fundamental Geographic processes and rationale towards application of Geographical knowledge are among such important aspects.

Objectives of the course:

1. To create an environmental awareness among commerce students.
2. Make aware students about various environmental factors and its relation to the field of Commerce.
3. To highlight functional and spatial links between environment, economy and society.
4. To create an insight into various environmental issues at global, national and regional level and measures for environmental conservation.

Outcome of the course:

By the end of the course, a student should develop the ability:

- To understand, comprehensibly and effectively about various fields of Geography.
- To develop the understanding and interest in the field of Geography
- To develop basic skills in Geographical practical's and its applications.

Title of the Papers:

F. Y. B. Com. Environmental Studies

For the subject of Environmental Studies there shall be two papers for 60 lectures each comprising of five units of 12 lectures each.

Semester-I

Paper-I: Environmental Studies
COURSE CODE: UCM1EVS (2019-20), Credit - 4

Semester-II

Paper-I: Environmental Studies
COURSE CODE: UCM2EVS (2019-20), Credit - 4

Scheme of Examination for Semester I and II:

Internal Evaluation: 25 Marks (20 marks for internal test and 05 marks for overall performance)

Duration: 40 Minutes		Marks: 20
N.B. 1. All questions are compulsory and carry equal marks.		
Q. 1	A) Fill in the blanks /Choose the correct alternatives/ Match the pairs	05 Marks
	B) Define the terms/ Answer in one sentence	05 Marks
Q.2	Answer the following (Any Two out of three)	10 Marks

Semester End Examination: 75 Marks**Question Paper Pattern****University of Mumbai****Changu Kana Thakur A.C.S. College, New Panvel (Autonomous)****Revised Syllabus w.e.f. Academic Year, 2019-20 (CBSGS)****F.Y.B.Com. Environmental Studies, Semester- I and II**

Duration: 2½ hours		Marks: 75
N.B. 1. All questions are compulsory and carry equal marks. 2. Use of Map Stencils and simple Calculator is allowed. 3. Attach appendix along with answer paper.		
Q. 1	Unit-I	15 Marks
<i>OR</i>		
Q.1	Unit-I (Question may be divided in to A and B)	15 Marks
Q. 2	Unit-II	15 Marks
<i>OR</i>		
Q. 2	Unit-II (Question may be divided in to A and B)	15 Marks
Q. 3	Unit-III	15 Marks
<i>OR</i>		
Q. 3	Unit-III (Question may be divided in to A and B)	15 Marks
Q. 4	Unit-IV	15 Marks
<i>OR</i>		
Q. 4	Unit-IV (Question may be divided in to A and B)	15 Marks
Q. 5	Unit – V Practical Component	15 marks
	A)	(08 Marks)
	B)	(07 Marks)

Syllabus for Semester I:**University of Mumbai****Changu Kana Thakur A.C.S. College, New Panvel (Autonomous)****Revised Syllabus w.e.f. Academic Year, 2019-20 (CBSGS)****F.Y.B.Com. Environmental Studies, Semester- I****COURSE CODE: UCM1EVS (2019-20), Credit – 4**

Unit-I: Environment and Ecosystem		12 (lectures)
1.1	Environment: Concept and components	
1.2	Concept of an ecosystem: Components and types,	
1.3	Functioning and structure: Food chain and food web, ecological pyramid, hydrological cycle, carbon cycle and nitrogen cycle	
1.4	Importance of Environmental Studies.	
Unit-II: Natural Resources and Sustainable Development		12 (lectures)
2.1	Concept of natural resources: Classification and types of resources	
2.2	Factors influencing resource utilization	
2.3	Problems associated with water, forest and energy resources	
2.4	Need for conservation and measures for sustainable development of resources	
Unit-III: Growth of Population and Emerging Issues of Development		12 (lectures)
3.1	Population explosion in the world and in India and related issues	
3.2	Pattern of population growth in the world and in India and associated issues	
3.3	Population policies of India;	
3.4	Environment and human health; Human development index and the World happiness index	
Unit-IV: Urbanization and Environment		12 (lectures)
4.1	Concept of urbanization: Trends of urbanization-World and India	
4.2	Urbanization and related issues: overpopulation and pressure on civic amenities, slums proliferation, growth of informal sector, dilapidated buildings and redevelopment issues, sick units etc.	
4.3	Environmental issues in urban area: Air pollution, water pollution, land pollution and loss biodiversity	
4.4	Concept and need of Smart Cities and safe cities in India - Sustainable urban development	
Unit-V: Reading of Thematic Maps and Map Filling (Practical Component)		12 (lectures)
5.1	Reading of Thematic Maps: Located bars, Circles, Pie charts, Isopleth, Choropleth and Flow map, Pictograms – (Only reading and interpretation)	
5.2	Map filling of World: (Environmentally significant features) Using point, line and polygon segment.	

Reference Books:

1. Asolekar S, Gopichandran R. 2005, '*Preventive Environmental Management - an Indian perspective*', CEE, Ahmedabad, Foundation Books Pvt Ltd, Daryaganj
 2. Chambers N., Simons C., Wackernagel M., 2006, '*Sharing Nature's Interest - Ecological footprints as an indicator of sustainability*'.
 3. Doniwal H. K., '*Urban Geography*', GNOSIS, Delhi, 2009.
 4. Dresner S., 2005, '*The principles of sustainability*', Earthscan publication Ltd, London.
 5. Gandotra V., Patel S., 2008, '*Environmental problems and strategies*', Serials Publication, New Delhi
 6. Hulse J. H., 2007, '*Sustainable Development at risk - Ignoring the past*', Cambridge University Press India Pvt Ltd., New Delhi.
 7. Mohanta R., Sen A., Singh M.P., 2009, '*Environmental Education - Vol. 1*', APH publishing Corporation New Delhi.
 8. Perumal M., Veerasekaran R., Suresh M., Asaithambi M., 2008, '*Environmental and Ecological issues in India*', Abhijeet Publication, Delhi
 9. Pednekar H.M., Parmar R.O. and Others.. 2016, '*Environmental Studies*' Sheth Publishers Private Ltd, Mumbai
 10. Prabu P.C., Udayasooriyan C., Balasubramanian G, 2009, '*An introduction to Ecology and Environmental Science*', Avinash Paperbacks, New Delhi.
 11. Purvis M. and Grainger A., 2005, '*Exploring Sustainable Development - Geographical perspectives*', Earthscan Publication, UK.
 12. Rajgopalan R., 2005, '*Environmental Studies - from crisis to cure*', Oxford University press, New Delhi.
 13. Reddy K. P., Reddy D. N., 2003, '*Environmental Education*', Neelkanth Publication, Hyderabad.
 14. Santra S.C., 2004, '*Environmental Science*', New Central Book agency Pvt Ltd, Kolkata.
 15. Saxena H.M., 2000, '*Environmental Management*', Rawat Publication, New Delhi, pp.
 16. Sinha S. P., Falguni R., Prasad M., Nanghia H.R., 1993, '*Instant Encyclopaedia of Geography*', Mittal Publication, New Delhi.
 17. Sudhir M.A., Alankara M. M., 2003, '*Environmental issues*', Reliance publishing house, New Delhi.
 18. Swarup R.S., Mishra S.N., Juahari V.P, 1992, '*Encyclopaedia of Ecology, environment and pollution control - 20*', Mittal publication, New Delhi
 19. Tiwari V., 2009, '*A textbook of Environmental studies*', Himalaya Publications House, New Delhi
 20. Tomar A., 2007, '*Environmental Education*', Kalpaz publication, New Delhi
 21. Uberoi N.K., 2007, '*Environmental Management*', Excel Books, New Delhi
 22. William M., Grossa J., 2002, '*Environmental Geography - Science, Land use and Earth Systems*', John Wiley and Sons Inc USA.
 23. Wright R., 2008, '*Environmental Science - Towards sustainable future*', Eastern Economy Edition, Prentice hall Inc, New Jersey, U.S.A
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Syllabus for Semester II:**University of Mumbai****Changu Kana Thakur A.C.S. College, New Panvel (Autonomous)****Revised Syllabus w.e.f. Academic Year, 2019-20 (CBSGS)****F.Y.B.Com. Environmental Studies, Semester- II****COURSE CODE: UCM2EVS (2019-20), Credit – 4**

Unit-I: Solid Waste Management for Sustainable Society		12 (lectures)
1.1	Concept and classification of solid wastes; Types and sources of solid waste	
1.2	Environmental impact of solid waste pollution	
1.3	Solid waste management : Initiatives and measures at global, national and local level	
1.4	Role of society in solid waste management in urban and rural areas	
Unit-II : Agricultural Practices and Environmental Degradation		12 (lectures)
2.1	Environmental problems associated with agriculture: Loss of productivity, land degradation, desertification	
2.2	Extensive use of water; Depletion of fresh water resources (intrusion of saline water, dry beds or streams and rivers and aquifers/ water pollution: surface and subsurface)	
2.3	Health hazards associated with modern agricultural practices: All - human, animals, birds and vegetation on land and in water	
2.4	Sustainable agricultural practices: Initiatives at global level and in India	
Unit-III: Tourism and Environment		12 (lectures)
3.1	Tourism: Meaning, nature, scope and importance, typology of tourism	
3.2	Tourism potentials in India and challenges before India, tourism policy of India	
3.3	Consequences of tourism : Positive and negative Impacts on economy, culture and environment	
3.4	Sustainable tourism practices	
Unit-IV: Environmental Movements and Management		12 (lectures)
4.1	Environmental movements in India: Save Ganga plan, Save tiger campaign, Save Western Ghats movement	
4.2	Environmental Management: Concept, need and relevance; concept of ISO 14000 and ISO 16000	
4.3	Concept of Carbon Bank and Carbon Credit , EIA , ecological footprint	
4.4	Applications of GST in Environmental Management : Concept and components, importance of Geo-spatial technology in environmental management	
Unit-V: Map Filling (Practical Component)		12 (lectures)
5.1	Map filling of Konkan Region (Environmentally significant features) using point, line and polygon segment	
5.2	Map filling of Mumbai: (Environmentally significant features) using point, line and polygon segment	

Reference Books:

1. Asolekar S, Gopichandran R. 2005, '*Preventive Environmental Management - an Indian perspective*', CEE, Ahmedabad, Foundation Books Pvt Ltd, Daryaganj
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