

As Per NEP 2020

Tolani College of Commerce (Autonomous)



Title of the Course: Environmental Management

Semester I

Name of the Programmes:

1. Bachelor of Commerce (Management Studies)
2. Bachelor of Commerce (Accountancy & Finance)
3. Bachelor of Commerce (Banking & Insurance)
4. Bachelor of Commerce (Financial Markets)
5. Bachelor of Science (Information Technology)
6. Bachelor in Commerce (Logistics)

Syllabus for 2 Credit Course

From the academic year- 2025-2026

Name of the Course: Environmental Management

Sr. No.	Heading	Particulars
1	Description the course:	The course is an introductory inter-disciplinary course to understand working earth's systems. It focusses on the holistic study to understand the interrelationship between humans and nature. It is also an attempt to understand the future impacts by learning from the past and present actions.
2	Vertical:	Value Education Course
3	Type:	Theory
4	Credit:	2 credits
5	Hours Allotted:	30 Hours
6	Marks Allotted:	50 Marks Continuous Evaluation 20 Marks Semester End Examination 30 Marks
7	Course Objectives: By end of this course learners should: <ol style="list-style-type: none"> 1. be sensitised about the environmental issues and need for conservation of environment 2. understand the role of humans as agents of environmental degradation as well as conservation 	
8	Course Outcomes: The learners shall: <ol style="list-style-type: none"> 1. a develop a sense of environmental responsibility 2. be able to appreciate Environmental Management as a multi-disciplinary tool for conservation rather than merely a subject 	

9	Module 1: Environment and its degradation (15 Hours)
	<ol style="list-style-type: none"> 1. Environment and Ecology: <ol style="list-style-type: none"> a. Definition, nature, scope and components of Environment; Human and environment relationship b. Definition, Components and types of ecosystems, Structure and Function of Ecosystem- Food Chain, Food Web, Ecological Pyramids, and Biogeochemical cycles- Water, Carbon and Nitrogen cycle 2. Natural Resource and Biodiversity: <ol style="list-style-type: none"> a. Definition, Classification and Utilisation of resources, Importance of Forest, Water and Energy resources b. Definition, Types, and Importance of biodiversity 3. Rise in Population and urbanization: <ol style="list-style-type: none"> a. Definition of population, Causes and Impacts of population rise, Concept of Population density b. Definition, causes and impacts of urbanisation; Concept of Urban Heat Island 4. Resource depletion and Biodiversity loss: <ol style="list-style-type: none"> a. Causes and impacts of resource depletion vis-à-vis forest, water and energy b. Threats to biodiversity; Impacts of biodiversity loss
	Module 2: Sustainable Development and Environment Management (15 Hours)
	<ol style="list-style-type: none"> 1. Sustainable Development: <ol style="list-style-type: none"> a. Definition, Need, Importance of Sustainable Development; Sustainable Development Goals (SDGs) b. Corporate Social Responsibility: Concept, Need and Importance
	<ol style="list-style-type: none"> 2. Environmental Management: <ol style="list-style-type: none"> a. Need, Importance and Relevance of Environmental Management, ISO 14001: Environmental Management System b. The concept of Carbon neutrality and Net zero; Carbon Banks and Carbon Credits
	<ol style="list-style-type: none"> 3. Disaster Management and Environmental Law: <ol style="list-style-type: none"> a. Definition, types, and effects of disasters; Factors to be considered in Prevention, Mitigation (Relief and Rehabilitation) and disaster preparedness. b. Constitutional Provisions for environment protection; Law- Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Wildlife Protection Act, 1972, Forest Conservation Act, 1980, Environmental Protection Act, 1986
	<ol style="list-style-type: none"> 4. Environmental Education and Protection: <ol style="list-style-type: none"> a. Definition, Scope, Importance, Principles, Methods of Environmental education; Concept of Education for Sustainable Development b. Environmental Movements in India- Chipko Movement, Appiko Movement, Save Narmada Movement, Save Western Ghat, Save Jaitapur and Save Aarey

10	Reference Books: <ol style="list-style-type: none"> 1. Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p 2. Gleick, H.P. 1993. Water in crisis, Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute Oxford Univ. Press. 473p 3. McKinney M.L. & Schoch R.M., 1998: Environmental Science, Jones & Bartlett Publishers, London 4. Mhaskar A.K., Matter Hazardous, Techno-Science Publication 5. Miller T.G. Jr. Environmental Science, Wadsworth Publishing Co. 6. Murthy, D. B. N., Disaster Management: Text and Case Studies, Deep and Deep 7. Negi S.S. (1993) Biodiversity and its Conservation in India, Indus Publications, New Delhi 8. Odum E.P. (1971): Fundamentals of Ecology, W.B. Saunders, Philadelphia 9. Parsuraman, S., and Unnikrishnan, ed., India Disasters Report II, Oxford, New Delhi, 2013 Publications, New Delhi, 2013. 10. Rajgopalan C (2015): Environmental Studies. Oxford University Press 11. Rao K.L. 1975: India's Water Wealth, Orient Longman Ltd. New Delhi 12. Rao M N. & Datta, A.K. 1987. Waste Water treatment. Oxford & IBH Publ. Co. Pvt. Ltd. 345p. 13. Reza, B. K., Disaster Management, Global Publications, New Delhi, 2010. 14. Trivedi R. K. and P.K. Goel, Introduction to air pollution, Techno-Science Publication 15. Zimmerman W E (1972) Zimmerman's World Resources and Industries' Harper & Row
11	Other Readings: <ol style="list-style-type: none"> 1. Down to Earth, Centre for Science and Environment 2. Census Handbooks Human Development Report-2019 3. Provisional Population Totals Paper 1 of 2011 India, Office of the Registrar General & Census Commissioner India. Product No. 00-001-2011-Cen-Book (E) 13 p.p 4. Human Development Report 2020 "The next frontier Human development and the Anthropocene", United Nations Development Programme (eISBN: 978-92-1-005516-1) 412 p.p http://hdr.undp.org/en/2020-report
12	Websites: <ol style="list-style-type: none"> 1. https://cpcb.nic.in 2. https://mpcb.gov.in 3. https://shoalconservation.org/project/project-mahseer/ 4. https://unfccc.int/ 5. https://wii.gov.in/ 6. https://www.bnhs.org/ 7. https://www.cbd.int/ 8. https://www.iucnredlist.org/ 9. https://www.wwfindia.org/

13	Internal Continuous Assessment: 40%	Semester End Examination: 60%	
14	Continuous Evaluation through:	Class test or Fieldwork-based project work and report or assignment or presentation or report-writing or article/ book review or topic-based activity	20 Marks
15	Format of Question Paper:		
	Question Number	Nature of Questions	Maximum Marks
	1)	Attempt any THREE of the following: (From Module I)	15
	A.		
	B.		
	C.		
	D.		
	2)	Attempt any THREE of the following: (From Module II)	15
	A.		
	B.		
	C.		
	D.		

Signatures of Team Members

Sr. No.	Name	Signature
1.	Mr. Kaustubh Bhagat	