

AC – 20/05/2025

Item No. – 5.50 (N) 10

As Per NEP 2020

University of Mumbai



C. D. INSTITUTE FOR ADMINISTRATIVE CAREERS

Syllabus for Basket of OE

Board of Studies in Value Education

UG Second Year Programme

Semester

III

Title of Paper

Credits

**Competitive Examination – III (General
Science, Environment and Technology)**

02

From the Academic Year

2026-27

Sr. No.	Heading	Particulars
1.	Description the course: Including but Not limited to:	The knowledge of general science which includes knowledge of physics, chemistry, biology under, and environment and technology is crucial for any competitive exam. Various exams of UPSC and MPSC, have significant weightage of marks for these subjects. The knowledge of general science and environment together helps to comprehend the world around us, natural phenomena and impact of human activities on the natural environment and potential threat associated with these. Knowledge of general science and technology helps to understand current development in space, technology, communication etc. and to stay updated for the candidates preparing for any competitive exam. The knowledge of the environment includes concepts of ecology, ecosystem, sustainable development, environmental pollution, global warming and climate change and their impact on human life. It also studies measures to reverse it and India's environmental policies and sustainable development programs align with them. The knowledge and awareness about general science, environment and technology at academic level provide an advantageous edge to candidates in preparation for competitive exams. Also studying these subjects enhances analytical and critical thinking skills of candidates which helps not just clearing competitive exams but also transforms citizens into well aware and responsible citizens of India.

2.	Vertical:	Open Elective
3.	Type:	Theory
4.	Credit:	2
5.	Hours Allotted:	30
6.	Marks Allotted:	50
7.	Course Objectives: 1. To introduce students to General Science for competitive examinations. 2. To introduce students to Environment and Technology for competitive examinations.	
8.	Course Outcomes: 1. Explain the basic concepts from General Science for Competitive Examinations. 2. Understand the basic concepts and terminology related to Environment and Technology for Competitive Examinations.	
9.	Modules:- Per Credit One Module can be created	
	Module 1 : General Science (15 Hours)	
	a) Physics: Basics, Mechanics, Thermodynamics b) Chemistry: Chemical Reactions, Elements, Compounds c) Biology: Human Anatomy, Diseases, Environment	
	Module 2 : Environment and Technology (15 Hours)	
	a) Developments in Science and Technology b) Environmental Issues and Sustainable Development c) Indian Space Program, IT, Biotechnology	
10.	Text Books: 1. NCERT Books 9, 10 and 10th standard	

	2. Science & Technology notes published by Chintamanrao Deshmukh Institute	
11.	Reference Books: 1. Science & Technology by Ravi Agrahari 2. Development in S&T by Kalpana Rajaram 3. General Science by Rajashree Borah (PMF) 4. General Science Lucent publication 5. Science and Technology by Spectrum 6. Indian Space Program by Gurbir Singh Environment 1. Environmental studies by Eroch Bharucha 2. Environment by Shankar IAS academy 3. Environment and Ecology By McGraw Hill 4. Environment by PMF IAS	
12.	Internal Continuous Assessment: 40%	External, Semester End Examination 60% Individual Passing in Internal and External Examination
13.	Continuous Evaluation through: MCQs, Quizzes, Class tests, assignments etc.	
14.	Format of Question Paper: Multiple Choice Questions	

Sd/-

Sign of the BOS
Chairman
Dr. Kavita Laghate
Ad-hoc Board of
Studies in Value
Education

Sd/-

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Dean
Dr. C. A. Chakradeo
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