

# Faculty of Commerce and Management Bachelor of Commerce with Honors

(W. E. F.: 2023-24)

Document ID: SUTEFCMB-01

Name of Faculty	:	Faculty of Commerce and Management
Name of Program	:	Bachelor of Commerce with Honors
Course Code	:	1BES01
Course Title	:	Environmental Science & Sustainable Development
Type of Course	:	Value Added (VA)
Year of Introduction	:	2023-24

Prerequisite	:	A keen interest in the natural systems that support life on earth			
Course Objective	:	To promote environmental principles that result in pro-			
		conservation behaviour.			
Course Outcomes	:	At the end of this course, students will be able to:			
	CO1	Explain multi-disciplinary nature of environment, its component			
		and degradation			
	CO2	Identify the types of pollution in society along with their sources			
	CO3	Realize the global environmental issues			
	CO4	Implement the concept of recycle and reuse in all fields of			
		engineering			
	CO5	Understand sustainability and identify major sustainability			
		challenges			

### **Teaching and Examination Scheme**

Teachin	g Scheme	(Contact	Credits	Examination Marks				
	Hours)			Theory	Marks	Practica	1 Marks	Total
L	T	P	С	SEE	CIA	SEE	CIA	Marks
2	0	0	2	50	25	0	0	75

#### **Course Content**

Unit No.	Topics	Teaching Hours	Weightage	Mapping with CO
1	Concept of Environmental Science:  Definition, Principles & Scope of environmental science. Structure and composition of atmosphere- troposphere, stratosphere, mesosphere and thermosphere; Hydrosphere, lithosphere-horizon, nutrients in soil, nitrogen pathways and biosphere	5	16%	CO1
2	Environmental Pollution: Types of Environmental Pollution:	10	36%	CO1 CO2 CO3

Document Version: 1.0 Page 1 of 3



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	Water Pollution: Introduction to Water Quality			
	Standards, Sources of Water Pollution:			
	Industrial, Agricultural, Municipal;			
	Classification of water pollutants, Effects of			
	water pollutants, Eutrophication Marine			
	pollution			
	Air Pollution: Composition of air, Structure of			
	atmosphere, Ambient Air Quality Standards,			
	Classification of air pollutants, Sources of			
	common air pollutants like PM, SO2, NOX,			
	Natural & Anthropogenic Sources, Effects of			
	common air pollutants			
	<u>Land Pollution</u> : Land uses, Land degradation:			
	Causes, Effects and Control, Soil Erosion			
	Noise Pollution: Introduction, Sound and			
	Noise, Noise			
	measurements, Causes and Effects			
	Thermal Pollution: Causes and effects, Role of			
	individual in the prevention of pollution			
	Global Environment Issues:			
	Global Environmental problems: Ozone layer			
3	depletion, sea level rise, Acid rain, global	5	16%	CO3
	warming, Forest fire, Global Warming and			
	Green House Effect.			
4	<b>Concept of 4R's:</b> Principles, Application of 4R's	2	6%	CO4
	Sustainable Development: Meaning,			
5	Definition, Goals, Achieving Sustainable	8	26%	CO5
	Development.			

Suggested Distribution of Theory Marks Using Bloom's Taxonomy						
Level	Remembrance	Understanding	Application	Analyse	Evaluate	Create
Weightage	40	40	20	0	0	0

NOTE: This specification table shall be treated as a general guideline for the students and the teachers. The actual distribution of marks in the question paper may vary slightly from above table.

### **Suggested Learning Websites**

Sr. No.	Name of Website
1	https://moef.gov.in/en/
2	https://nptel.ac.in/

Document Version: 1.0 Page 2 of 3



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### **Reference Books**

Sr. No.	Name of Reference Books
1	Basics of Environmental Studies by Prof Dr N S Varandani, LAP -Lambert Academic
	Publishing, Germany.
2	Environmental Studies by R. Rajagopalan, Oxford University Press.
3	Environmental Studies by Dr. Suresh K Dhameja, S K Kataria & Sons New Delhi.
4	Basics of Environmental Studies by U K Khare, Tata McGraw Hill.
5	Environmental Studies by Anindita Basak ,2009 Publisher: Drling Kindersley (India)Pvt.
	Ltd. Pearson.
6	Textbook of Environmental Studies by Deeksha Dave & S S Kateva, Cengage Publishers.
7	Textbook of Environmental Studies for Undergraduate Courses by Erach Bharucha.
	Secondedition, 2013 Publisher: Universities Press (India) Private Ltd, Hyderabad.
8	Environmental Studies by Benny Joseph, TMH publishers.

Document Version: 1.0 Page 3 of 3