FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28) COURSE CURRICULUM

 \hat{x}_{u}

Γ

1

٦

PARTA:	INTRODUCTION

		PART A: INTRODUCT	ΓΙΟΝ				
Prog	gram: Certificate Course	Semester- I Sem		Session: 2024-25	5		
1	Course Code	AEC 01					
2	Course Title	Environmental Studies					
3	Course Type	Ability Enhancement Course (AEC)					
4	Prerequisite (If Any)	As per requirement					
5	Course Outcome (CO)	At the end of this course, stud					
		CO 01: relate the basic concept of the environment					
		CO 02: explain environmental alterations CO 03: develop skills in environmental measurement					
		CO 03: develop skills in env	Ironmen	tal measurement			
6	Credit Value	CO 04: examine correction measures of the environment02 C01 Credit = 15 Hrs. Teaching-Learning					
					g		
7	Total Marks	Max. Marks: 50	Max. Marks: 50 Minimum Pas		narks: 20		
		PART: B CONTENT OF THE	E COUR	SE			
Total	No. of Teaching-Learnin	g Periods: 30Hours/ 30Perio					
UNI	T	TOPIC (Course Conten	ts)		No. of		
					Hours		
	Basic Composition:						
		1. Abiotic and Biotic components of the environment					
Ι		2. Biodiversity—Concept, types, and measures about its protection			07		
		3. Basic concept of Bio-Geo Chemical Cycle			1 m -		
	CLARKELY BOX	4. Energy Flow in an ecosystem					
		terations in Environment:					
	1. Concept and compor	nents of the pond ecosystem					
II	-	2. Air pollution and measures for its control					
	3. Water pollution and	3. Water pollution and measures for its control					
	4. Global warming, Cli	mate change, and possible mea	sures				
	Measurements of Env	vironmental Components			· · · · · · · · · · · · · · · · · · ·		
	1. Soil composition and methods of its analysis						
III	2. Water analysis methods for DO, BOD, COD				08		
	3. Water analysis methods for pH, TDS, Turbidity, Salinity, and Alkalinity				4		
		4. Information about environmental factors—PM-10, PM-2.5, NO2, O3					
	Application Measures						
	1. Useful microbes to co						
IV		2. Useful microbes to control soil pollution					
	3. Concept of Biodegrad	3. Concept of Biodegradation					
	4. Concept of Phytorem	rediation					
Key	Econotic Della (
Word	ls Ecosystem, Pollution,	Climate Change, Biodegrada	tion		0.0		
	Name and	d Signature of Convener and	Member	s of CBOS	11 . 11		
	0	d Signature of Convener and and Signature of Convener and and Signature of Convener and and Signature of Convener and for. S. Ar. Ar. Men A. Ar. Men A. Ar. Men A. Ar. Men A. Men A. M	a ria	2	VI. Al		
	12 and Krik		angla	1106/24 =	Thuman		
0	E Dr. Dr.	kan have	¥ *		1161		
Y	Trute 1 Lov	Dr.	San	rang Bhagat	Dr-Shivani		
1100	lasure por	flow	~				
5	1 INN	Que ful	6124				
any.	(Leon	ABehar (1)	28	Anite Cando	TUDOZH		
11612	4 1 (Nicha Ben	()	A B	16 000		
ibha	Diwan	Lood CDA. Man	1	Do Anvite ta	nda)		
	Dr. Pre	and use	(
	y	1 x lost					

Learning Resources PART-C: Text Books, Reference Books, and Others Text Books Recommended -1. Ecology and Environment, 8th Edition, P.D.Sharma, Rastogi Publication, Meerut. 2. Environmental Biology, 2nd Edition, P,D.Sharma, Rastogi Publication, Meerut. 3. Environmental Biology and Toxicology, 2nd Edition, P.D.Sharma, Rastogi Publication, Meerut. Environmental Studies, 1st Edition, S.V.S.Rana, Rastogi Publication, Meerut. 4. Environmental Biotechnology, 1st Edition, S. V. S. Rana, Rastogi Publication, Meerut. 5. Online Resources-> e-Resources / e-books and e-learning portals Online Resources-> e-Resources / e-books and e-learning portals **PART -D: Assessment** and Evaluation **Suggested Continuous Evaluation Methods:** 50 Marks **Maximum Marks:** 15 Marks **Continuous Internal Assessment (CIA):** 35 Marks End Semester Exam (ESE): Better marks out of the two Test / Quiz Continuous Internal Internal Test / Quiz-(2): 10 & 10 + obtained marks in Assignment shall be Assignment/Seminar +Attendance - 05 Assessment (CIA): Total Marks -15 considered against 15 Marks (By Course Teacher) Two sections – A & B **End Semester** Section A: Q1. Objective – 05 x1 = 05 Mark; Q2. Short answer type- 5x2 = 10 Marks Exam (ESE): Section B: Descriptive answer type qts., 1out of 2 from each unit- 4x05 = 20 Marks

Name and Signature of Convener & Members of CBoS:

Aliverthane Dr. vzpavalasy Samana 2 mana (Dr. shironi shama) rive Helene Dr. Provind Kurre Dr. Provind Kurre Mausch Mausch (Dg. Sanjane Bhaget) Amite Penda Dr. Amite Ponda, 11.6. 2024 (Dr. Shukha Diwan) Dr. Anster Kan