FOUR YEAR UNDERGRADUATE PROGRAM (2024 - 28)

DEPARTMENT OF BOTANY COURSE CURRICULUM

P	ART- A:	ntroduction	1	,				
Program: Bachelor in (Diploma / Degree/Honors		Semester - III Session: 2024-		-2025				
1	Course Code	BOSE- 01 T						
2	Course Title	Natural resour	ces and managemen	t				
3	Course Type	Discipline specific Elective (DSE)						
4	Pre-requisite (if, any)	Pre-requisite (if, any) As per program						
5	Course Learning. Outcomes (CLO)	At the end of this course, the students will be able to > Understand natural resources and their sustainable utilization. > Knowledge on land, water, energy, and forest resources. > Students will learn about the practices of natural resource management. > Knowledge on the international and national efforts of natural resource management.						
6	Credit Value	3 Credits	Credit = 15 Hot	urs - learning & Observation	1			
7	Total Marks	-Max. Marks:	100	Min Passing Marks: 40)			
PAR	T -B: Content of th	e Course						
	Total No. of Teachi	ng-learning Periods	(01 Hr. per period) - 45 Pe	eriods (45 Hours)				
Uni	it		Topics (Course contents)		No. of Period			
I	Natural resources Definition and Natural resournatural recournatural recournatural recournatural recournatural recournatural recournatural recournatural recourses.	rces' conservation Rorses, Significance,	le of an individual in conserva ': Concept, approaches econolities.		12			
п	Land and freshwater Land as a reso Soil erosion a Soil degradati Forest resource Water resource Fresh Marine	ource and desertification ion and management, ces use and over explo	ation of surface and ground watems;	ater	11			
II		2 1 1 1 1 1 1 1 1	strategies					
	> Biodiversity-(> Value of biod > Biodiversity a > Threats; Man > Bioprospectir > Forests: Cove > Major and mi	definition and types liversity at global, national an ragement strategies; ag. IPR; CBD; Nationer and its significance nor Forest products;	al Biodiversity Action Plan). (with special reference to India	a);	11			
IV	7 Contemporary practic > National and ir > Waste manager > Natural resourd > Environmental > Geographical ir > Participatory A > Ecological Foo	nternational efforts in ment practices se Accounting impact assesement E information System G appraisal of naturl Res otprint with emphasis	gement resource management and con- IA IS source on carbon footprint,	servation.	11			

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PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended -

- Vasudevan, N. (2006). Essentials of Environmental Science. Narosa Publishing House, New Delhi.
- Singh, J. S., Singh, S.P. and Gupta, S. (2006). Ecology, Environment and Resource Conservation. Anamaya Publications, New Delhi.

Reference Books Recommended -

1, Rogers, P.P., Jalal, K.F. and Boyd, J.A. (2008). An Introduction to Sustainable Development. Prentice Hall of India Private Limited, New Delhi.

Online Resources-

- > e-Resources / e-books and e-learning portals
- > https://www.sciencedirect.com/topics/social-sciences/natural-resource
- https://efaidnbmnnnibpcajpcglclefindmkaj/https://egyankosh.ac.in/bitstream/123456 789/66166/2/Unit4.pdf
- https://efaidnbmnnibpcaipcglclefindmkaj/https://www.ers.usda.gov/webdocs/publications/41964/30289 biological.pdf?v=0#:~:text=16-
 - ,What%20Are%20Biological%20Resources%3F,forests%2C%20and%20other%20 natural%20lands.
- http://surl.li/spcdd
- https://shorturl.at/ewyIP
- https://shorturl.at/cimoF

Online Resources-

- > e-Resources / e-books and e-learning portals
- www.swayam.ac.in
- > www.ignou.ac.in
- > www.egyankosh.ac.in
- www.iitm.ac.in
- www.eskillindia.org
- www.eshiksha.mp.gov.in
- www.vlab.co.in
- www.internshala.com
- www.ndl.iitkgp.ac.in

PART -D: Assessn	nent and Evaluation	
Suggested Continuous Ev	aluation Methods:	All the second s
Maximum Marks:	100 Marks	
Continuous Internal Asse	ssment (CIA): 30 Marks	
End Semester Exam (ESE): 70 Marks	
Continuous Internal	Internal Test / Quiz-(2): 20 +20	Better marks out of the two Test / Quiz
Assessment (CIA): 30	Assignment / Seminar - 10	obtained marks in Assignment shall be
(By Course Teacher)	Total Marks - 30	considered against 30 Marks

End Semester Exam

(ESE): 70

Two section - A & B

Section A: Q1. Objective – 10 x1= 10 Mark; Q2. Short answer type- 5x4 = 20 Marks Section B: Descriptive answer type qts.,1out of 2 from each unit-4x10=40 Marks

Name and Signature of Convener & Members of CBoS

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FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)

DEPARTMENT OF BOTANY

COURSE CURRICULUM

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7 To PART Module Lab./Fiel Training Experime Content	otal Marks -B: C Tot	Max. Marl	cs: 50 Course caining/per	0 rformance Perio	Min Passing Marks: ods: 30 Periods (30 Hours)	20 No. o		
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Modulo Lab./Fiel Training Experime Content	Tot e	al No. of learning-To		C C C C C C C C C C C C C C C C C C C		200.00		
Lab./Fiel Training Experime Content			Topics (Course conter	nts)	200.00		
Training Experime Content	1.1			Topics (Course contents)				
	g/ ent ts se 2) T m 3) T 4) S C 5) T s 6) F 0 7) E n 8) C 9) M	oefficients to estimate IVI of the stathod. To find out important generating visits to a profession of the state of determine diversity in pecies richness, equabified survey of a part of f plants in urban ecosystimation of solid waston biodegradable) and collection of data on for deasurement of dominating the state o	grassland spaceted area, recognized indices (Sha lity and B d town or city stems. The generated its impact of the covers of the	a woodland using chi se a wet land, a man botanical gardens mon Wiener, conliversity. I by a domestic system land degradation of specific area. dy species by DB	grove, NBPGR, BSI, or a museum. centration of dominance, dents aware of the diversity stem (biodegradable and n.	30		
Keywords		Ecological modeling.		1				

Signature of Convener & Members (CBoS):

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PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended -

- 1. A Handbook of Human Resource Management Practice
- 2. Environmental and Natural Resource Economics A Contemporary Approach
- 3. Sustainable Management of Natural Resources Mathematical Models and Methods (Environmental Science and Engineering Environmental Science)

Online Resources-

- > e-Resources / e-books and e-learning portals
- 1) https://shorturl.at/uIMTW
- 2) https://shorturl.at/yFJM3

Online Resources-

- e-Resources / e-books and e-learning portals
- www.swayam.ac.in
- www.ignou.ac.in
- www.egyankosh.ac.in
- www.iitm.ac.in
- www.eskillindia.org
- www.eshiksha.mp.gov.in
- www.vlab.co.in
- www.internshala.com
- www.ndl.iitkgp.ac.in

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 50 Marks

Continuous Internal Assessment (CIA): 15 Marks End Semester Exam (ESE): 35 Marks

Internal Test / Quiz-(2): 10 & 10 **Continuous Internal** Assessment (CIA): 15 | Assignment/Seminar + Attendance - 05 Total Marks -

Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks

as per lab. status

(By Course Teacher) **End Semester** Exam (ESE): 35

Laboratory / Field Skill Performance: On spot Assessment A. Performed the Task based on lab. work

15

Managed by - 20 Marks Course teacher

B. Spotting based on tools & technology (written) - 10 Marks C. Viva-voce (based on principle/technology)

- 05 Marks

Name and Signature of Convener & Members of CBoS: