

List of Courses which focuses on Professional Ethics, Gender, Human Values, Environment & Sustainability and other value framework

Department : **Zoology**

Programme Name : B.Sc.

Academic Year:2017-18

Courses which focuses on Professional Ethics, Gender, Human Values, Environment & Sustainability and other value framework:

Sr. No.	Course Code	Name of the Course
01.	AECC-EVS-I	Environmental Science-I
02.	AECC-EVS-II	Environmental Science-II
03.	ZOO-CC-XII	Environmental Biology

विद्यागस्थ्यस HEAD सन्तु विद्यान विभाग

L.v. 12. Kharkog

नुष्तं बासीदास.वि.वि., विसासपुर Buru Chesidas Vishwavidyalaya, Briespu

गुरु घासीदास विश्वविद्यालय (क्षेत्र विस्तिवास अधिम 2008 ह. 25 के आंध्र स्वाधित के हैंग विस्तिवास) कोनी, बिलासपुर - 495009 (छ.ग.)



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Koni, Bilaspur - 495009 (C.G.)

Scheme and Syllabus

Semester HI:	1				
Course type	Course Code	Title of Course	Credits	Hes/	Hrs/
00	Z00-CC-V	Genetics and Evolution	-	Wk	Sem
Zoology (H)	ZOO-CC-VI	Economic Zoology	2	2	
	Z00-0C-	Lub Course (V + VI)	2	2	
	Practical	14 14 14	2	4	
CC	CHEM-CC-III	Total Credits	6		+
Chemistry	CHEM-CC IV		THE RESERVE		NE.
	Practical		Washington Land	li li	
(optional)	BOT/ B L-CC-III	shapen of a beginning	VIII COL	3112-HER	1
Bolany/ Biotoch.	BOT/ BT-CC-IV			100	
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Foundation course	EVS-I	Maria Maria			
Ability		Environment Sciences 1/ DM		-	
Enhancement Compulsors Course					
AECCI					
CC Zoology (H)	ZOO-CC-VII	Title of Course Microbiology and Immunotogy	Credits	Hrs/ Wk	Hrs/ Sem
coolingy (III)	ZOO-CC-VIII	Endocrinology and	2 2	2	
	200-CC-	Developmental Biology	*	2	
	Practical	Lab Course (VII + VIII)	2	4	
ce		Total Credity			
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A District	CHEMICK-IV	MANY THE PARTY OF	1772-258	1988	
CC (opponal)	BOY/11T-CC III	ATTION OF THE LOCAL PROPERTY.		2	
Botany/ Blotech,	BOD BE-CCIV			00000	1000
	Pracebut				OD A
Foundation course	EVS-II	Environment Science-1/ DM	80 7 to 1		111111111
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compulsory Course					
AECC)					
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Course type	Concse Code	Title of Course	Credits	Hrs/ WX	He/ Seni
CC	ZOO-CC-IX	Comparative Anatomy of Non-Chordates and Chordates	3	3	
	ZOO-CC-X	Animal Physiology	3	-5	
	ZOO-CC- Practical	Lab Cowne (VII + VIII)	3	6	
	7.00-CC-XI IDLS C	Biostatistics and Computer Applications	3	3	
DSE	Z(X)-DSE-1	Elective-I (Endocrinology/ Fish Biology/ Toxicology)	3	3	
	Practical	Lab based on elective & Senitor to decide the project	3+ 2	6	
		Total Credits	20		

Semester VI:

Course type	Course Code	Title of Course	Credits	Hin/ Wk	His/ Ban
CO.	Z00-CC-XII	Environmental Biology	3	3	
	ZOO-CC-XIII	Biotechniques	.3	3	
	ZOO- CC- Practical	Lub Course (VII + VIII)	3	6	
	ZOO-CC-XIV	Molecular Biology and Genetic Engineering	3	3	
DSE	200-DSE-2	Elective-II (Endocrinology/ Fish Biology/Toxicology)	1	3	
	ZOO-DSE-3	Dissertation/ Project work and Seminar	3+2	6	
		Total Credits	20		

Note:

- 1. Groups offered by the Department for Integrated UG/PG students at entry level
 - · Group I: Zoology, Chemistry and Botany (ZCB)
 - Group II: Zoology, Chemistry and Biotechnology (ZCBT)
- After the successful completion of IVth Semester students will have flexibility of changing of Core honors subject as per their interest and availability of the seats in the Department.

Descrimental Zonings

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B.Sc. (Hon's) Zoology SEMESTER - VI

ZOO-CC-XII: Environmental Biology

Unit 1: Ecosystem

8 hrs

Components of ecosystems, Ecological factors: Abiotic and Biotic; Trophic levels, food chains and food webs, Ecological pyramids, Energy flow in ecological systems.

Unit 2: Population Ecology

Population: Basic concepts, population characteristics - density, natality, mortality, agestructure, growth forms.

Unit 3: Community Ecology

Community: Basic concepts, community structure, habitat & niche concept, Concept of keystone species and ecotone; Succession: Concepts of succession, Types of Succession.

Unit 4: Biodiversity and Conservation

Biodiversity concept, types of biodiversity, biodiversity and human welfare, mega diversity zones and biodiversity hot spots with special reference to India. Concept of conservation, in situ

Unit 5: Pollution

Pollution: types, sources and effects of major pollutants of air, water, soil and noise, Control of

Books Recommended

Recce:Campbell Biology (9th ed. 2011, Pearson, New York)

Odum: Fundamentals of Ecology (2008, Indian Edition, Brooks/Cole)

- Benny Joseph: Environmental Studies (2005, Tata McGraw Hill Publ. Co. Ltd.) Primack: A primer of conservation biology (3rd ed. 2004, Sinauer Associates,
- Raven and Berg: Environment (3rd ed. 2001, Harcourt College Publishers, New York)

Ricklefs: Ecology. (5th ed. 2000, Chiron Pres)
 Krebs: Ecology. 6th ed. 2001, Benjamin Cummings)

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