गुरू घासीदास विश्वविद्यालय (केंद्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

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

Department

: Botany

Programme Name : M.Sc.

Academic Year :

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

Sr. No.	Course Code	Name of the Course			
01.	OPNBO01	Ecosystem Services and Biodiversity			
02.	BOPBTT7	Ecology and Environment			
03.	BOPCTT11	Research methodology paper			
04.	BOPBTD1	Algae, Environment and Human Welfare			
05.	BOPBTD4	Environmental Microbiology			
06.	BOPBTD5	Herbal Product Development and Formulation			
07.	BOPBTD8	Environmental Biology			
08.	BOPBTD10	Biodiversity and Conservation			
09.	BOPBTD11	Ethnobotany and Traditional knowledge			
10.	BOPBTD16	Environmental Pollution			
11.	BOPBTD19	Global Change Biology			
12.	BOPBTD23	Plant Diversity, Uses and Conservation			
13.	*****				
14.	*****				
15.	*****				
16.	*****				
17.					
18.					

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Scheme and Syllabus

DEPARTMENT OF BOTANY SCHOOL OF STUDIES IN LIFE SCIENCE

M.Sc. (BOTANY)

			SEMESTER 1	[
Seme ster	Course Opted	Course Code	Name of the course	Credit	Hour / weak	End semest er marks	Interna I Marks	Total marks
Semester I	Core-1	BOPATT1	Advances in Virus, bacteria and Algae	3	3	70	30	100
	Core-1 Lab	BOPALT1	Lab based on core 1	2	4	70	30	100
	Core-2	BOPATT2	Applied Mycology and Advance Phytopathology	3	3	70	30	100
	Core-2 Lab	BOPALT2	Lab based on core 2	2	4	70	30	100
	Core-3	BOPATT3	Advances in Bryophytes, Pteridophytes and Gymnosperm	3	3	70	30	100
	Core-3 Lab	BOPALT3	Lab based on core 3	2	4	70	30	100
	Open Elective	OPNBO01	Ecosystem Services and Biodiversity	3	3	70	30	100
	OE Lab	OPNBO01L	Lab based on OE	2	4	70	30	100
			TOTAL	20				800
	1	Γ	SEMSTER II		T			r
Semester II	Core-4	BOPBTT4	Cell and Molecular Biology	3	3	70	30	100
	Core-4 Lab	BOPBLT4	Lab based on core 4	2	4	70	30	100
	Core-5	BOPBTT5	Taxonomy of Angiosperm	3	3	70	30	100
	Core-5 Lab	BOPBLT5	Lab based on core 5	2	4	70	30	100
	Core- 6	BOPBTT6	Plant Biochemistry	3	3	70	30	100
	Core- 6 Lab	BOPBLT6	Lab based on core 6	2	4	70	30	100
	Core- 7	BOPBTT7	Ecology and Environment	3	3	70	30	100
	Core- 7 Lab	BOPBLT7	Lab based on core 7	2	4	70	30	100

Courses Focus on Employability/Entrepreneurship/Skill Development

Criteria - I (1.1.3)

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	Research Methodology	BOPCTT11	Research methodology paper	2	2	70	30	100
	Educational To	Educational Tour (one week duration) (BOPBLF1)						
			Total	24				90
			семестер ни	1				
			SEMESTER III					1
	Core- 8	BOPCTT8	Plant Anatomy and Reproductive Biology	3	3	70	30	100
	Core- 8 Lab	BOPCLT8	Lab based on core 8	2	4	70	30	10
	Core- 9	BOPCTT9	Genetics and Cytogenetics	3	3	70	30	100
r III	Core- 9 Lab	BOPCLT9	Lab based on core 9	2	4	70	30	10
Semester III	Core- 10	BOPCTT10	Plant physiology	3	3	70	30	10
Sem	Core- 10 Lab	BOPCLT10	Lab based on core 10	2	4	70	30	10
S	Discipline specific Elective- 1	BOPCTD	DSE from the Basket 1	3	3	70	30	100
	Discipline specific Elective Lab	BOPCLD	Lab based on DSE 1	2	4	70	30	10
			Total	20				800
								800
	Discipline		SEMESTER IV					800
	Discipline specific Elective -2	BOPDTD			3	70	30	800
	specific	BOPDTD BOPDLD	SEMESTER IV DSE from the	,	3	70	30 30	
ster IV	specific Elective -2 Discipline specific		SEMESTER IV DSE from the Basket 2	3				100
Semester IV	specific Elective -2 Discipline specific Elective Lab Discipline specific	BOPDLD	SEMESTER IV DSE from the Basket 2 Lab based on DSE 2 DSE from the	3	4	70	30	100 100 100
Semester IV	specific Elective -2 Discipline specific Elective Lab Discipline specific Elective -3 Discipline specific	BOPDLD BOPDTD	SEMESTER IV DSE from the Basket 2 Lab based on DSE 2 DSE from the Basket 3	3 2 3	4	70 70	30 30	100
Semester IV	specific Elective -2 Discipline specific Elective Lab Discipline specific Elective -3 Discipline specific Elective Lab	BOPDLD BOPDTD BOPDLD	SEMESTER IV DSE from the Basket 2 Lab based on DSE 2 DSE from the Basket 3	3 2 3 2	4	70 70	30 30	100 100 100 100



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- 1. Continuous Internal assessment should be evaluated by two components: Seasonal test + assignment
- 2. Expert lectures, online seminars webinars will be conducted for the completion of course
- 3. Any additional Labs based on theory course will be added whenever necessary.

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Discipline specifics Elective offered by Botany

(Discipline specifics Elective Basket)

Basket 1 (Semester II)	Basket 2 (Semester III)	Basket 3 (Semester IV)
Algae, Environment and Human Welfare	Agricultural Microbiology	Environmental Pollution
Biofertilizer and Biopesticides Technology	Biodiversity and Conservation	Ethno-Pharmacognosy and Nutraceuticals
Bioinformatics and Evolutionary Biology	Ethnobotany and Traditional knowledge	Food Microbiology
Environmental Microbiology	Herbal Cosmetics	Global Change Biology
Herbal Product Development and Formulation	Microbial Technology	Microbial Genetics
Microbial Physiology	Plant Propagation and Nursery Development	Plant Functional Genomics
Plant Stress Biology	Plant Tissue Culture and Application	Plant Systematics
Environmental Biology		Plant Diversity, Uses and Conservation

Course- baskets are dynamic in nature. Courses present in one basket can be shifted to another basket as per the requirement and availability of resources.