



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

**Department : *Botany***

**Programme Name : *B.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.	BOUCTT6	Economic Botany and Plant Resource Utilization
02.	BOUDTT9	Plant Ecology and Phytogeography
03.	BOUFTT13	Biodiversity and Conservation
04.	BOUETD3	Research Methodology
05.	BOUETD5	Natural Resource Management
06.	BOUETD6	Industrial and Environmental Microbiology
07.	BOUALG1	Food Science
08.	BOUALG2	Community Forestry
09.	BOUALG6	Global Climate change
10.	BOUALG7	Plant Diversity and Human Welfare
11.	BOUALG8	Environmental Protection
12.	BOUALG9	Environmental Toxicity
13.	BOUALG10	Environmental Microbiology
14.	BOUATA3	Plants in Traditional Systems of Medicine
15.	BOUATA5	Intellectual Property Rights
16.	BOUATA6	History of Indian Science
17.	BOUDTL1	Botanical Garden and landscaping
18.	BOUDTL5	Environmental impact analysis



**Scheme**

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SCHOOL OF SCIENCES: (LIFE SCIENCE)  
B.Sc. (BOTANY) Hon's

SEMESTER I								
Semester	Course Opted	Course Code	Name of the course	Credit	Hour / week	End-semester marks	Internal Marks	Total marks
Semester I	Core-1	BOUATT1	Phycology and Microbiology	3	3	70	30	100
	Core-1 Lab	BOUALT1	Lab based on core 1	2	4	70	30	100
	Core-2	BOUATT2	Bio-molecules and cell Biology	3	3	70	30	100
	Core-2 Lab	BOUALT2	Lab based on core 2	2	4	70	30	100
	Generic Elective Course (GEC- 1)	BOUATG	Opted from the basket	3	3	70	30	100
	Generic Elective Course-1 Lab	BOUALG	Lab based on GEC-1	2	4	70	30	100
	Ability Enhancement Course (AEC-1)	BOUATA	Opted from the basket provided by University	2	2	70	30	100
	Skill Enhancement Course (SEC -1)	BOUDTL	Opted from the basket provided by University	2	2	70	30	100
	Additional Credit Course							
			TOTAL	19	25			800
SEMESTER II								
Semester II	Core-3	BOUBT3	Mycology and Phytopathology	3	3	70	30	100
	Core-3 Lab	BOUBLT3	Lab based on core 3	2	4	70	30	100
	Core- 4	BOUBT4	Archegoniate: Bryophytes, Pteridophytes and Gymnosperm	3	3	70	30	100
	Core- 4 Lab	BOUBLT4	Lab based on core 4	2	4	70	30	100
	Generic Elective Course (GEC- 2)	BOUBTG	Elective from the Basket	3	3	70	30	100
	Generic Elective Course-2 Lab	BOUBLG	Lab based on GEC-2	2	4	70	30	100

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	Ability Enhancement Course (AEC-2)	BOUATA	Opted from the basket provided by University	2	2	70	30	100
	Skill Enhancement Course (SEC-2)	BOUDTL	Opted from the basket provided by University	2	2	70	30	100
	Additional Credit Course							
			Total	19	25			200
Summer Internship/Projects	BOUBPI	Industrial/Institutional/and others		2	100	70	30	100
SEMESTER III								
Semester III	Core-5	BOUCTT5	Anatomy of Angiosperms	3	3	70	30	100
	Core-5 Lab	BOUCLT5	Lab based on core 5	2	4	70	30	100
	Core-6	BOUCTT6	Economic Botany and Plant Resource Utilization	3	3	70	30	100
	Core-6 Lab	BOUCLT6	Lab based on core 6	2	4	70	30	100
	Core-7	BOUCTT7	Genetics and Cytogenetics	3	3	70	30	100
	Core-7 Lab	BOUCLT7	Lab based on core 7	2	4	70	30	100
	Generic Elective Course (GEC-3)	BOUCTG	Elective from the Basket	3	3	70	30	100
	Generic Elective Course-3 Lab	BOUCLG	Lab based on GEC-3	2	4	70	30	100
	Ability Enhancement Course (AEC-3)	BOUATA	Opted from the basket provided by University	2	2	70	30	100
	Additional Credit Course							
			Total	22	30			900
SEMESTER IV								
Semester IV	Core-8	BOUDTT8	Molecular Biology	3	3	70	30	100
	Core-8 Lab	BOUDLT8	Lab based on core 8	2	4	70	30	100
	Core-9	BOUDTT9	Plant Ecology and Phytogeography	3	3	70	30	100





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Core- 9 Lab	BOUDLT9	Lab based on core 9	2	4	70	30	100	
Core- 10	BOUDTT10	Plant Systematics	3	3	70	30	100	
Core- 10 Lab	BOUDLT10	Lab based on core 10	2	4	70	30	100	
Generic Elective Course (GEC- 4)	BOUCTG	Elective from the Basket	3	3	70	30	100	
Generic Elective Course-4 Lab	BOUDLG	Lab based on GEC-4	2	4	70	30	100	
Ability Enhancement Course (AEC-4)	BOUATA	Opted from the basket provided by University	2	2	70	30	100	
Additional Credit Course								
TOTAL			22	30			900	
<b>SUMMER Internship: 15 days</b>								
SUMMER Internship: 15 days	BOUDEF1	SwyamSwachhta / NSS / Industrial/ others	2	100	70	30	100	
<b>SEMESTER V</b>								
Semester V	Core -11	BOUETT11	Plant Physiology	3	3	70	30	100
	Core -11 Lab	BOUELT11	Lab based on core 11	2	4	70	30	100
	Core -12	BOUETT12	Plant Metabolism	3	3	70	30	100
	Core -12 Lab	BOUELT12	Lab based on core 12	2	4	70	30	100
	Discipline Specific Elective (DSE-1)	BOUETD	From the DSE basket	3	3	70	30	100
	DSE-1 Lab	BOUELD	Lab based on DSE-1	2	4	70	30	100
	Discipline Specific Elective (DSE-2)	BOUETD	From the DSE basket	3	3	70	30	100
	DSE-2 Lab	BOUELD	Lab based on DSE-2	2	4	70	30	100
	Ability Enhancement Course (AEC-5)	BOUATA	Opted from the basket provided by University	2	2	70	30	100
	Additional Credit Course							
TOTAL			22	30			900	
<b>SEMESTER VI</b>								

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Core-13	BOUFTT13	Biodiversity and Conservation	3	3	70	30	100
Core -13 Lab	BOUFLT13	Lab based on core 13	2	4	70	30	100
Core -14	BOUFTT14	Reproductive biology of Angiosperm	3	3	70	30	100
Core -14 Lab	BOUFLT14	Lab based on core 14	2	4	70	30	100
Discipline Specific Elective (DSE-3)	BOUETD	From the DSE basket	3	3	70	30	100
DSE-3 Lab	BOUELD	Lab based on DSE-3	2	4	70	30	100
Seminar/ group discussion (SMR)	BOUFDT2	SMR topic from the basket	2		35	15	50
Dissertation / Project			7		120	60	200
Additional Credit Course							
		<b>TOTAL</b>	<b>24</b>	<b>33</b>			<b>850</b>
<b>TOTAL CREDITS</b>			<b>134</b>				

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(b) Discipline Specific Elective Course

S N	Name of the course	Type of course	L	T	P	Credits
1	Plant Biotechnology and Genetic Engineering	Discipline Specific Elective Course	3	0	2	5
2	Plant Biochemistry	Discipline Specific Elective Course	3	0	2	5
3	Research Methodology	Discipline Specific Elective Course	3	0	2	5
4	Biostatistics	Discipline Specific Elective Course	3	0	2	5
5	Natural Resource Management	Discipline Specific Elective Course	3	0	2	5
6	Industrial and Environmental Microbiology	Discipline Specific Elective Course	3	0	2	5
7	Aquatic Botany	Discipline Specific Elective Course	3	0	2	5
8	Bioinformatics	Discipline Specific Elective Course	3	0	2	5
9	Elements of Plant Breeding	Discipline Specific Elective Course	3	0	2	5
10	Bio-Analytical Techniques	Discipline Specific Elective Course	3	0	2	5

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 Bilaspur - 495009 (C.G.)

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(c) Generic Elective Courses

Sr. No.	Name of the course	Type of course	L	T	P	Credits
1	Food Science	Generic Elective Courses	3	0	2	5
2	Community Forestry	Generic Elective Courses	3	0	2	5
3	Seed Technology	Generic Elective Courses	3	0	2	5
4	Industrial Microbiology	Generic Elective Courses	3	0	2	5
5	Plant-Microbes Interaction	Generic Elective Courses	3	0	2	5
6	Global Climate change	Generic Elective Courses	3	0	2	5
7	Plant Diversity and Human Welfare	Generic Elective Courses	3	0	2	5
8	Environmental Protection	Generic Elective Courses	3	0	2	5
9	Environmental Toxicity	Generic Elective Courses	3	0	2	5
10	Environmental Microbiology	Generic Elective Courses	3	0	2	5
11	Algal Biotechnology	Generic Elective Courses	3	0	2	5



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(d) Ability Enhancement Courses

Sr. No.	Name of the course	Type of course	L	T	P	Credits
1	Mushroom Culture Technology	Ability Enhancement Courses	2	0	0	2
2	Medicinal Botany	Ability Enhancement Courses	2	0	0	2
3	Plants in Traditional Systems of Medicine	Ability Enhancement Courses	2	0	0	2
4	Good Laboratory Practices	Ability Enhancement Courses	2	0	0	2
5	Intellectual Property Rights	Ability Enhancement Courses	2	0	0	2
6	History of Indian Science	Ability Enhancement Courses	2	0	0	2

  
  
  
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(e) Skill Enhancement Courses

Sr. No.	Name of the course	Type of course	L	T	P	Credits
1	Botanical Garden and landscaping	Skill Enhancement Courses	2	0	0	2
2	Agriculture and Food Microbiology	Skill Enhancement Courses	2	0	0	2
3	Bio-fertilizers	Skill Enhancement Courses	2	0	0	2
4	Herbal Technology	Skill Enhancement Courses	2	0	0	2
5	Environmental impact analysis	Skill Enhancement Courses	2	0	0	2
6	Floriculture	Skill Enhancement Courses	2	0	0	2
7	Forensic Botany	Skill Enhancement Courses	2	0	0	2

  
  
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