Rajarshi Chhatrapati Shahu College Kolhapur

Department of Botany

CAREER ORIENTED COURSE

BIODIVERSITY CONSERVATION

2020-2021



Career Oriented Course- Certificates Course in Biodiversity and it's Conservation.

1.Name of the Department: - Department of Botany

2.Course Name: - Certificates Course in Biodiversity and it's Conservation.

3. Course Coordinator Name & Contact Number: - Mr. Gojare S M,

9890593483

4.Duration: -6 Months

5.Course Fee: - Rs- 300/-

6.Eligibility: - 12" passed students are eligible to take admission

7.Minimum intake Capacity: - 20

8.Objective:

The objective of this scheme is to introduce career and market skill enhancing add-on courses that have utility for job, self employment and empowerment of the students

9. Certificate Course:

The course will be of 30 credits. Each credit will have 15 hrs. of workloads out of which 10 credits should necessarily be assigned to fieldwork/project work/training (450)

10. Teaching programme:

Theory and Practicals is of -300 hrs — 20 credits.

Field Work / Project work / Training-150 hrs — 10 credits.

Theory Paper I _____ 100 marks

Theory Paper II — 100marks

Paper III 100marks

(practical -projects- work experience)

Co-ordinator
COc in Biodiversity Conservation



Source .

Head
Department of Botany
Rajarshi Chh. Shahu Gollege, Kolhapur

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RAJARSHI CHHATRAPATI SHAHU COLLEGE KOLHAPUR

Department of Botany

Carrier Oriented Course: - Biodiversity Conservation

2020-2021

Notice

02/01/2020

All the students of Arts, Science and Commerce are hereby informed that Department of Botany is going to start Carrier Oriented Course Certificate course in Biodiversity Conservation from next week. Those who are interested please contact to Head Department of Botany. Course will be taken online mode.

The Course fees is Rs.300/- and duration of Course is 6 Months.

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Head
Department of Botany
Raiarshi Chh. Shahu College, Kolhapur.

KOLHAPUR CO

Principal,
Rajarshi Chh. Shahu College
Kolhapur.

RAJARSHI CHHATRAPATI SHAHU COLLEGE, KOLHAPUR

Career Oriented Course 2020-21

BIODIVERSITY CONSERVATION

List of Students Enrolled .

Sr. No.	Roll Number	Name of the students	Class	Signature
1.	59	Suryawanshi Supriya Tukaram	B.Sc. III	Suprisa.
2.	60	Yesare Aniruddha Baban	B.Sc. III	AByasane
3.	61	Kamble Pranam Kerba	B.Sc. III	Branamkentele
4.	62	Shivputra Kempayya Hanchinwar	B.Sc. III	Blambour
5.	63	Kamble Krishna Laxman	B.Sc. III	- Knistra in
6.	64	Thakur Kalal Bajrang	B.Sc. III	K.Thakur.

Co-ordinator
Coc in Biodiversity Conservation

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Share

Head

Department of Botany Rajarshi Chh. Shahu Gollege, Kolhapur

11.Syllabus

Paper I — Fundamentals of biodiversity.

Section I

Unit I —Origin of life.	1
 —Position of different organisms in living world. — Differentiation between prokaryotic and eukaryotic cell. 1.3—Brief introduction to five kingdom classification system. 	
Unit 2 —Concept of Evolution	12
- Theories of evolution, Darwinism, Concept of species formation.	
— Phylogeny	
Unit 3—Taxonomy and Classification	20
3.1- Introduction to major groups of plants.	
3.2- Introduction to major groups of animals and microbes.	
Unit 4 —Loss of Biodiversity	1(
4.1- Causes of loss of Biodiversity.	
4.2- Effects of loss of Biodiversity.	
4.3 -Terminology- Red data book-concept. Section II	,
Unit I—Biodiversity introduction, concept and significance	7
Unit 2 —Levels of Biodiversity	15
2.1— Mega diversity in India	
2.2 -Bioreserves	
2.3 Hot spots in India with special reference to Himalaya and	
Western ghat(Maharashtra)	
2.4 -National parks, wildlife sanctuaries Botanical gardens and	
Zoological museums.	3

Unit3-Climatic Change	7
3.I-Causes of Climatic change.	
3.2-Effects of Climatic change.	
Unit4-Earth Summits- Objectives and resolution passed.	12
Paper II-Ecology and Conservation Biology.	
Section-I	
Unit1-Ecology concept, biotic and abiotic component	12
Unit2-Ecosystem and Phytogeography of India	12
Introduction, components of Ecosystem. Food chains and Food webs	
Unit3	12
Environmental Pollution. Causes and effects of it on environment	
Unit4	10
Plant as Bioindicatos Role in environmental monitoring	
SectionII	
Unit1-Biodiversity conservation strategies.	15
Insitu and Exsitu conservation	
Unit2-Research institute related to Conservation of Biodiversity	15
Bio-ethics, IPR and Patenting	
Unit3-Ecotourism and Biodiversity.	12
Communication, education and public awareness	
Unit4-Brief review of protocols given by various earth summits to	12
various nations.	



Paper-III

Practicals-: 30Periods

Cultivation and isolation of micro-organisms.

Morphology of major groups (Bryophyte, Pteridophyta, Gymnosperms and Angiosperms)

Study of comparative diversity in Angiosperms.

Classification of insects(Allmajororders) using lee Study of wild species in crop improvement.

Study of Red data book Species of Sahyadri belonging to Satara district.

Work experience:

60periods

Assessment of Biodiversity of an area (Ajinkyatara, Yavateswar, Kas, Pateswar) by suitable sampling method(quadrate) species abundance, frequency, density



12. Suggested Reading for Biodiversity:

- 1. Veena Arora 202 Natraj Publishers , Dehradun Publisher: The Biological
- 2.Diversity Act, Edt Heywood, V.H .: Global Biodiversity Assessment PartI
- 3.M.S.Prashanth: Environmental Studies
- 4.M.C.Dash:Fundamental of Ecology
- 5.D.K.Asthana, Meera Asthana: Environment: Problems & Solutions
- 6.D.K.Belsare: Introduction to Biodiversity
- 7.SurendraSingh:Geo morphology and Remote Sensing in Environmental Management
- 8.N.Das Gupta: Environmental Accounting
- 9.E rach Bharucha: Textbook of Environmental Studies
- 10.M.L.Narasaiah:Biodiversity & Sustainable Development
- 11.M.L.Narasaiah:Education & Biodiversity
- 12.R.L.Panigrahy,LingarajPatro:Biodiversity Conservation and Sustainable Development
- 13. John R. Jensen: Remote Sensing of the Environment
- 14.M.M.Anji Reddy.: Remote Sensing and Geographic alInformation
- 15.Systema Veer Bala Rastogi:FundamentalsofBiostatics
- 16.P.K.Bane Jee:Introduction to Biostatistics
- 17. Jadhav, H. and Bhosale, V.M. Environmental Protection

and Laws

18. Principles of Biochemistry: Lehninger

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Head

Department of Botany

Rajarshi Chh. Shahu College, Kolhapur.

RAJARSHI CHHATRAPATI SHAHU COLLEGE, KOLHAPUR

Department of Botany

Career Oriented Course 2020-21

BIODIVERSITY CONSERVATION

ATTENDENCE

Sr. No.	Name of Teacher	Online lecture links		
1	Mr. Gojare Santosh M.	https://forms.gle/ZSbjgpmEQ1hx4QtW6		
2	Dr. Rode Surekha P.	https://forms.gle/on3k3Cf47w1jVzkLA		
3	Mr. Gojare Santosh M.	https://forms.gle/wchPe8Cv8LzyK9zi8		
4	Mr. Gojare Santosh M.	https://forms.gle/s3Qu5kHGDcXP3DyZ6		
5	Dr. Rode Surekha P.	https://forms.gle/wTumrNnMfSUrFTNq8		
6	Mr. Gojare Santosh M.	https://forms.gle/YdqZ8v71u5JBDzEW6		
7	Dr. Rode Surekha P.	https://forms.gle/z5RZ3ksUZLsF8RaC7		
8	Mr. Gojare Santosh M.	https://forms.gle/zzXt17Pigai7Y9o97		
9	Dr. Rode Surekha P.	https://forms.gle/Aaf39TfRVStM8NX69		
10	Dr. Rode Surekha P.	https://forms.gle/wP6DkYw9xphiC3jQ8		
11	Mr. Gojare Santosh M.	https://forms.gle/1vByTX5pZDnA8jA86		
12	Dr. Rode Surekha P.	https://forms.gle/SpHHG5MkoAW2m8Y59		
13	Dr. Rode Surekha P.	https://forms.gle/LwpBXgYMaANZbFPVA		
14	Dr. Rode Surekha P.	https://forms.gle/8HRdPbYcJ1wUDxzm9		
15	Mr. Gojare Santosh M.	https://forms.gle/NrT2gwXUs1AKBMUU8		
16	Mr. Gojare Santosh M.	https://forms.gle/wP6DkYw9xphiC3jQ8		
17	Dr. Rode Surekha P.	https://forms.gle/SpHHG5MkoAW2m8Y59		



Head

Department of Botany

Rejershi Chh. Shahu College, Kolhapu

Rajarshi Chhatrapati Shahu College, Kolhapur

Department of Botany

CAREER ORIENTED COURSE: BIODIVERSITY CONSERVATION

2020-21

Question Paper Pattern,

PAPER- I Marks: 100 Time: 3 hours 20 Marks Que 1: Rewrite the following sentences by choosing alternative. 1 To 10 Que 2: Attempt any three of the following. 60 Marks В Ε Que 3: Attempt any four of the following. 20 Marks В C D E



Rajarshi Chhatrapati Shahu College, Kolhapur

Department of Botany

CAREER ORIENTED COURSE: BIODIVERSITY CONSERVATION

2020-21

Question Paper Pattern,

PAPER- II

Marks: 100 Time: 3 hours 20 Marks Que 1: Rewrite the following sentences by choosing alternative. 1 To 10 Que 2: Attempt any three of the following. 60 Marks В C E Que 3: Attempt any four of the following. 20 Marks A В C D



Rajarshi Chhatrapati Shahu College, Kolhapur

Department of Botany

CAREER ORIENTED COURSE: BIODIVERSITY CONSERVATION

2020-21

Question Paper Pattern,

PRACTICAL EXAMINATION

PRACTICAL EXAMINATION			
Time: More than 4 hours	Marks: 100		
Que 1: Identify and show important structures observed in given specimen.	20 Marks		
A			
В			
С			
D			
E			
Que 2: Identify and show important structures observed in given specimen.	20 Marks		
A			
В			
Que 3: Identify and show important structures of	20Marks		
Α			
В			
Que 4: Demonstrate the technique	20 Marks		
A			
В			
Que5: Demonstrate the technique	20 Marks		
A			
В			



Rajarshi Chhatrapati Shahu College Kolhapur

Carrier Oriented Course Examination 2020-2021

Name of Exam - COC-Certificate Course in Biodiversity Conservation

Results

Sr. No	Name of Students (Mother' Name)	Paper I (100 M)	Paper II (100 M)	Practical (100 M)	Total (300)	Percentage (%)	Class
1	Suryawanshi Supriya Tukaram (Suvarna)	65	67	90	222	74	I st
2	Yesare Aniruddha Baban (Alka)	80	75	92	247	82	I st
3	Kamble Pranam Kerba (Surekha)	60	65	90	215	71	I st
4	Shivputra Kempayya Hanchinwar (Shobha)	60	68	89	217	72	I st
5	Kamble Krishna Laxman (Kamal)	70	69	89	228	76	I st
6	Thakur Kajal Bajrang (Sudha)	78	67	87	232	77	I st

Co ordinator Dr. S.P.Rode

Co-ordinator
Coc in Biodiversity Conservation

KOLHAPUR CO

Principal Principal, Rajarshi Chh. Shahu College Kolhapur. Education through self-helf is our motto"-Karmaveer



Rayat Shikshan Sanstha's,





CERTIFICATE

Shiuputra Kempaya Hanchinwar This is to certify that, Shri/Spart.

Shophd Mother's Name Class B.ScIII of Rajarshi Chhatrapati Shahu college Kolhapue

has successfully completed the Career Oriented/Certificate Course in Biochiuc asity Conservation

organized by Rajarshi Chhatrapati Shahu College, Kolhapur.

Course organized academic year.



Course Coordinator



Principal