

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
Re-accredited by NAAC with 'A+' Grade (4th Cycle)
College of Excellence (UGC) Coimbatore – 641 029

DEPARTMENT OF BOTANY

COURSE OUTCOMES (CO)

PG Diploma in Biodiversity

**For the students admitted
in the Academic Year 2022-2023**

22PDB101

Programme Code: 05		PG Diploma in Biodiversity		
C.P. 1 - INTRODUCTION TO BIODIVERSITY				
Batch 2022-2023	Semester I	Hours / Week 2	Total Hours 30	Credits 2

COURSE OBJECTIVES

- To know the principles and concepts of biodiversity.
- To understand the services of species diversity.
- To acquire knowledge on the role of biodiversity in maintaining ecobalance.

COURSE OUTCOMES

On successful completion of the course, the students will be able to

K1 ↑ ↓ K5	CO1	Know the pattern of distribution of biodiversity.
	CO2	Understand various aspects and types of species diversity.
	CO3	Ability to identify global distribution of species richness.
	CO4	Analyze the concept, origin and evolution of biodiversity.
	CO5	Evaluate the functional role of species diversity in an ecosystem

22PDB102

Programme Code: 05		PG Diploma in Biodiversity		
C.P.2 - VALUES, USES AND LOSS OF BIODIVERSITY				
Batch 2022-2023	Semester I	Hours / Week 2	Total Hours 30	Credits 2

COURSE OBJECTIVES

- To know the value of biodiversity.
- To understand the valuation methods of species content.
- To gain knowledge on the factors of species loss.

COURSE OUTCOMES

On successful completion of the course, the students will be able to

K1 ↑ ↓ K5	CO1	Gain knowledge on the aesthetic values of bioresources
	CO2	Understand the role of several factors on biodiversity loss
	CO3	Apply knowledge to prevent the loss of biodiversity
	CO4	Analyze the feasible ways to reduce ecosystem loss
	CO5	Evaluate ecosystem biodiversity loss and their control measures

22PDB103

Programme Code: 05		PG Diploma in Biodiversity		
C.P. 3 - CONSERVATION AND MANAGEMENT OF BIODIVERSITY				
Batch 2022-2023	Semester I	Hours / Week 2	Total Hours 30	Credits 2

COURSE OBJECTIVES

- To know the methods of conservation of species.
- To gain knowledge in the area of ecosystem conservation.
- To know the various laws of biodiversity conservation.

COURSE OUTCOMES

On successful completion of the course, the students will be able to

K1 ↑ ↓ K5	CO1	Provide knowledge on species conservation methods
	CO2	Understand the prevailing laws for the conservation of biodiversity both at national and international levels
	CO3	Apply various strategic plans for the conservation of biodiversity
	CO4	Analyze novel ideas for the conservation ecosystem
	CO5	Evaluate ideas on international biodiversity laws and regulations

22PDB1CL

Programme Code: 05		PG Diploma in Biodiversity		
CORE PRACTICAL -1 - BIODIVERSITY - I				
Batch 2022-2023	Semester I	Hours / Week 2	Total Hours 30	Credits 2

COURSE OBJECTIVES

- To learn the techniques for plant community analysis.
- To know the complexity and diversity of plant communication.
- To have the knowledge on endangered animals in protected areas.

COURSE OUTCOMES

On successful completion of the course, the students will be able to

K3 ↑ ↓ K5	CO1	Apply inherent knowledge on conservation of biodiversity in protected areas.
	CO2	Investigate and analyze the status of biodiversity.
	CO3	Able to acknowledge endangered species diversity and to offer conservational strategic plans
	CO4	Acquire knowledge on ecological status of plants in selected communities
	CO5	Quantitatively evaluate plant communities in selected areas.

22PDB204

Programme Code: 05		PG Diploma in Biodiversity		
C.P.4 - BIODIVERSITY PROSPECTING AND INDIGENOUS KNOWLEDGE SYSTEM (IKS) AND BIOTECHNOLOGY FOR BIODIVERSITY				
Batch 2022-2023	Semester II	Hours / Week 2	Total Hours 30	Credits 2

COURSE OBJECTIVES

- To know the ethnic communities of India and their role in bioresource management.
- To understand the bioprospecting of natural bioresources.
- To gain knowledge on the role of biotechnology in processing biogoods.

COURSE OUTCOMES

On successful completion of the course, the students will be able to

K1	↑	CO1	Gain indigenous knowledge on ethnic groups and major plant genetic pools species
		CO2	Understand the database of biodiversity
K5	↓	CO3	Explore knowledge on principles and major objectives of community forest management systems
		CO4	Apply biotechnological tools for the management of biodiversity
		CO5	Determine technological skills for determining variations in biodiversity

22PDB205

Programme Code: 05		PG Diploma in Biodiversity		
C.P.5 - WILDLIFE BIOLOGY AND CONSERVATION POLICIES AND LAW				
Batch 2022-2023	Semester II	Hours / Week 2	Total Hours 30	Credits 2

COURSE OBJECTIVES

- To understand the values and ethics in wild life conservation.
- To know the diversity and importance of avian fauna.
- To gain knowledge on issues in wildlife conservation.

COURSE OUTCOMES

On successful completion of the course, the students will be able to

K1	↑	CO1	Understand the values and ethics of wildlife conservation
		CO2	Attain knowledge on the diversity of avian ecology
K5	↓	CO3	Assess community based approaches for the conservation of wild life
		CO4	Analyze current issues on protection and conservation of forest and wildlife
		CO5	Enumerate skills and knowledge on laws concerning forest

22PDB2CM

Programme Code: 05		PG Diploma in Biodiversity		
CORE PRACTICAL -2 – BIODIVERSITY - II				
Batch 2022-2023	Semester II	Hours / Week 2	Total Hours 30	Credits 2

COURSE OBJECTIVES

- To learn the various field techniques for analysis the flora and fauna.
- Attain the knowledge on handling for instruments in biodiversity.
- To inherit knowledge on wildlife conservation.

COURSE OUTCOMES

On successful completion of the course, the students will be able to

K3 ↑ ↓ K5	CO1	Apply inherent knowledge on <i>in vitro</i> biotechnological techniques in conservation of biodiversity.
	CO2	Investigate and analyze the avian community.
	CO3	Able to acknowledge endangered species diversity and to offer conservational strategic plans
	CO4	Acquire knowledge on protection of forest and wildlife forest conservation laws
	CO5	Gain knowledge on vegetation types and conservation measures through field visits

22PDB2Z1

Programme Code: 06		PG Diploma in Biodiversity		
PROJECT & VIVA – VOCE				
Batch 2022-2023	Semester II	Hours / Week 4	Total Hours 60	Credits 4

COURSE OBJECTIVES

- To gain knowledge on species diversity at microbe, plant and animal level in natural vegetations.
- To learn the techniques used to sample the vegetation.
- To understand the modern methods in conservation of species.

COURSE OUTCOMES

On successful completion of the course, the students will be able to

K3 ↑ ↓ K5	CO1	Develop local-specific management strategies for the sustainable utilization and conservation of bioresources.
	CO2	Analyze the population structure of flora in natural vegetation.
	CO3	Evaluate problems relevant to conservation of floral and faunal biodiversity
	CO4	Examine the sample size of the vegetation in a given study area
	CO5	Evaluate the population size of various wild animals in a forest.