

# ST JOHN'S COLLEGE ANCHAL

Add-On Certificate Course

On

**Biodiversity Assessment and Conservation**

Organized by

**PG and Research Department of Environmental  
Sciences**

Course Incharge	Dr.Anila George
Course Duration	August 2022 to September 2022 <i>(30 hours)</i>
Eligibility	UG & PG Students

For further queries please contact the Course Coordinator



## COURSE SUMMARY REPORT

2022-2023

Name of Course	ADD-ON COURSE Biodiversity Assessment and Conservation (ENV.A21.2)
Course Duration	30 Hours
Department offering the Course	Department of Environmental Sciences
Faculty In Charge	Dr Anila George
Number of Students Enrolled	50
Start Date & End Date	05/08/2022 to 30/09/2022

The add on course on **Biodiversity Assessment and Conservation (Env.A.21.2)** has been coordinated by the Department of Environmental Sciences, St John's College, Anchal. For the health of our planet and its inhabitants, biodiversity is crucial. An additional course called **Biodiversity Assessment and Conservation** was created in recognition of the importance of biodiversity conservation. The course sought to give participants a thorough awareness of biodiversity as well as the information and abilities needed for successful conservation initiatives. The course had a well-defined syllabus and was approved by the IQAC. The course used a variety of teaching techniques to accommodate different learning preferences:

**Lectures and conversations:** Inspiring lectures that covered the theory were followed by lively conversations that promoted involvement.

**Group Activities:** Participants engaged in group activities that promoted cooperation and critical thinking, such as case studies and conservation planning exercises.

**Field visits:** During field visits to nearby conservation areas, participants had the chance to put their knowledge to use, which improved their understanding of how to conserve biodiversity practically.





# ST. JOHN'S COLLEGE, ANCHAL

Affiliated to the University of Kerala  
Re- accredited with A Grade by NAAC  
Recognised for STAR College by DBT, Govt. of India

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The add on course was coordinated by Dr Anila George, Assistant Professor, Department of Environmental Sciences. The course was properly planned and organised to provide maximum support to students during their learning process. The course duration was 30 hours. 50 students enrolled for the program. The course started on 05.08.2022 and ended on 30.09.2022. Participants who took the Biodiversity Conservation Add-on Course left with the information and abilities needed to comprehend, value, and protect biodiversity. The course gave students the tools they needed to have a positive influence on the conservation of the planet's numerous ecosystems and species by cultivating a strong sense of environmental stewardship. During the end of course, an exit examination was conducted. All students wrote the examination. Final assessment was done based on the marks secured by them during the written and practical examination. All students passed in the examination. Certificates were also provided to them after the successful completion of the course.

**Course Coordinator**

**Principal**

St. John's College  
Anchal-691 306

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<b>Name of Course</b>	<b>Add-On Course:</b>
	<b>Biodiversity Assessment and Conservation</b>
<b>Course code</b>	<b>Env.A.21.2</b>
<b>Department offering the Course</b>	<b>Department of Environmental Sciences</b>
<b>Faculty in Charge</b>	<b>Dr.Anila George</b>

**Course Title: Env.A.21.2 Biodiversity Assessment and Conservation**

**Course Description**

The aim of the course is that the students understand biodiversity in the context of ecosystem dynamics, ecosystem functioning and provision of ecosystem services. Students will know how to assess biodiversity with different methodologies and they will be able to conduct a critical analysis of measures to manage biodiversity.

**Course objectives**

1. Understanding the basics of science of biodiversity in an ecological context .
2. Learning tools and techniques relevant to monitoring of biological diversity.
3. Ability to design a field based project with rationale and appropriate methodology.

**Course Outcomes**

At the end of the course the students are able to:

- CO1: Select plans for biodiversity conservation in various committees pertaining to the same .
- CO2: Explain factors detrimental to biodiversity .
- CO3: Apply various methods of water conservation techniques around their locality
- CO4: Examine man-wildlife conflicts.

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- CO5: Estimate the biodiversity of an ecosystem and to prepare biodiversity register.
- CO6: Develop a sense of conservation attitude.

### Module I

#### Introduction to Biodiversity - 8 hrs

Introduction – Definition: genetic, species and ecosystem diversity ; Value of biodiversity- consumptive use, productive use, social, ethical aesthetic and option values ; Biodiversity at global, national and local levels ; India as a mega-diversity nation; Hot-spots of biodiversity; threats to biodiversity- habitat loss, river death, poaching of wildlife, man wildlife conflicts ; Endangered, endemic and threatened species of India.

### Module II

#### Concepts and Patterns of Biodiversity -5 hrs

Biodiversity-Types of biodiversity-wild biodiversity, agro-biodiversity, domesticated biodiversity; ecosystem functions and biodiversity; valuating ecosystem services ; Drivers of biodiversity loss; Tools and techniques for biodiversity estimation- biodiversity indices .

### Module III

#### Assessment and Monitoring of biodiversity -8 hrs

Indicators for Biodiversity. Methodology of assessment and analysis of different species groups, monitoring of different species groups, Fieldwork on different plant communities with simple sampling methods and analysis Presenting and discussion of results.

### Module IV

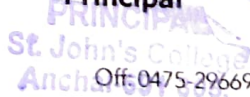
#### Conservation Practices in India and World- 4 hrs

Organizations involved in resource conservation IUCN, WWF, UNEP, UNESCO, IPGRI, FAO, BSI, ZSI. General account on activities of DBT, BSI, NBPGR, ZSI, FSI, NBFGR and NBAGR NFPTCR, Sacred groves, Biodiversity register.

  
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## Module V

### Laws and Acts- 5 hrs

Wildlife Protection Act 1972, amended 1991; Forest Conservation Act, 1980, Amended 1988; The Environment Protection Act, 1986 and Rules, 1991; The Biological Diversity Act, 2002, Rules 2004; Forest Rights Act, 2006

### Participatory Action Learning

Biodiversity of Western Ghats-brief account of Gadgil and Kasthurirangan report-A case study. Role of youth in biodiversity conservation, Explore the biodiversity of mangroves/sacred grove/miyawaki forest. Field visit

### Assessment and Certification

Written Test - Students are able to interpret basics of science of biodiversity conservation covered in Modules 1-5.

Students are able to implement a small project on monitoring of biodiversity

Students have developed skills to articulate their findings.

Course completion certificate

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