



**STSN GOVERNMENT DEGREE COLLEGE**

**KADIRI-515591, SRI SATYA SAI DISTRICT. (A.P)**

**NAAC Accredited with 'B' Grade**

**PRAPOSAL FOR**

**CERTIFICATE COURSE IN**

**BIODIVERSITY AND CONSERVATION**

**DEPARTMENT OF ZOOLOGY**

**2022-2023**

# CERTIFICATE COURSE IN BIODIVERSITY AND CONSERVATION

Department of Zoology

STSN Govt Degree College Kadiri 515591 Sri Satya Sai (Dist.)

2022-2023

## Table of Contents

S.No	Name of the Item	Page Number
1.	Departmental staff resolution	3
2.	Course Proposal	4-7
3.	Proceedings of the principal	10
4.	Notification of the admissions	11
5.	List of students	12-13
6.	Time Table	14-15

## DEPARTMENTAL STAFF RESOLUTION

It is resolved that the Department of Zoology unanimously decided, to conduct a 45 days certificate course in Biodiversity and Conservation for II Year B.Sc (Bzc, Czs & Czpm) students of this college. The course schedule will be from 1.12.2022 to 23.1.2023. After successful completion of course and Quiz and assignments should be conducted in Biodiversity and Conservation for both Theory and practical and distribution of certificates to the students. The course syllabus is attached to this copy.

Faculty of  
Department of Zoology  
LECTURER IN *Zoology*  
STSN Govt DEGREE COLLEGE  
KADAPA 515 131  
Sri Sathya Sai (Dist). /

STSN GOVT DEGREE COLLEGE KADIRI  
SRI SATHYA SAI DISTRICT, AP.  
DEPARTMENT OF ZOOLOGY  
CERTIFICATE COURSE IN BIODIVERSITY AND CONSERVATION

Department of Zoology prestigiously introduced 45 days of certificate course in Biodiversity and Conservation. This course may be useful for students will get more knowledge about Biodiversity, concepts of Biodiversity, Hot spots, Global distribution of Biodiversity, Ecosystem functions related to Biodiversity, Biodiversity loss and its consequences, Biodiversity Conservation Strategies. This course may be useful to the students gain knowledge about Biodiversity Conservation

**Course Objectives:**

- ✦ Students will get knowledge of Biodiversity conservation are to preserve the diversity of species, sustainable utilization of species and ecosystem and maintain life-supporting systems and essential ecological processes.
- ✦ Students will get knowledge the variety of life on Earth at all its levels, from genes to ecosystems, and can encompass the evolutionary, ecological, and cultural processes that sustain life.
- ✦ Students will know about different hot spots.
- ✦ Students will be aware about how to loss Biodiversity.
- ✦ Students will be get More Knowledge on Ex-situ conservation and In-situ conservation.
- ✦ Students will be get more knowledge how to conservation or preservation is to provide protection to the ecosystem from degradation and therefore the consumption of resources must be reduced. The conservation of the organism is also essential for proper maintenance of the ecosystem

### Course outcomes:

After successful completion of the course students will have the knowledge and skills to:

- Students will get Knowledge Articulate why society strives to conserve biodiversity.
- Students will get more knowledge how to identify key threats to biodiversity.
- Students will get knowledge how to evaluate which management options are likely to be effective for conserving biodiversity in different settings.
- Students will be able to Develop appropriate policy options for conserving biodiversity in different settings.
- Students will learn different aspects like Different regions of Biodiversity, hot spots, Importance of Biodiversity, loss of Biodiversity and its consequences, Biodiversity conservation strategies Ex-situ conservation and In-situ conservation.

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SRI SATHYA SAI DISTRICT, AP.  
DEPARTMENT OF ZOOLOGY  
CERTIFICATE COURSE IN BIODIVERSITY AND CONSERVATION

Duration: 45 Days

**Unit: 1 Introduction:**

**7 hr**

Definition of biodiversity, clarification of terms (taxonomic, spatial levels, endemism), levels of biodiversity (microbial, genetic, species, ecosystem, landscape), drivers of biodiversity.

**Unit: 2 Distribution of biodiversity:**

**9 hr**

Evolution of biodiversity, overview of ecological communities, number of species worldwide, change in biodiversity over time in different regions of the world, concept of diversity hot-spots; Biodiversity in India: In the past and present. Global distribution of biodiversity (latitudinal diversity gradient).

**Unit: 3 Biodiversity–ecosystem functioning–Ecosystem Services (ES):**

**9 hr**

Ecosystem functions related to biodiversity, definition of ES, importance of biodiversity ecosystem functioning for supply of ES (direct and indirect), methods of valuation

**Unit: 4 Biodiversity loss and its consequences:**


**10 hr**

Estimates of extinction rates worldwide and in India, Analyzing and discussion of causes and extinction/changes in biodiversity, Summarizing causes and consequences (Causes: Vulnerability to extinction; changing of the environment (Habitat fragmentation and destruction) climate change, overexploitation; Consequences: loss of gene pool, loss of ecosystem services, livelihood)

**Unit: 5 Biodiversity Conservation strategies:**

10 hr

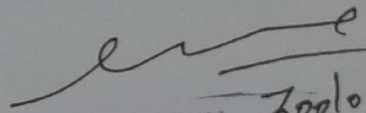
Theoretical background: overview of genetic variability: population biology of endangered species, conservation genetics, wildlife biology Ex-situ conservation: (facilities, establishment of new populations, captive breeding, reintroduction, discussion of advantages and disadvantages, In-situ conservation: (assessment of adequate areas, design and management of protected areas; problems protected areas in India, connectivity and corridors, sustainable use of biodiversity, conservation and society, conservation networks.

  
LECTURER IN *Zoology*  
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KADIRI - 515 121  
Sri Sathya Sal (Dist).

## Certificate Course – Time Table

S.No	Date	Topic covered
1	01.12.2022	Introduction of Biodiversity
2	02.12.2022	Introduction of Biodiversity
3	03.12.2022	Definition of Biodiversity
4	05.12.2022	Taxonomic terms of Biodiversity
5	06.12.2022	Spatial levels
6	07.12.2022	endemism
7	08.12.2022	Levels of Biodiversity
8	09.12.2022	Microbial Biodiversity
9	10.12.2022	Genetic biodiversity
10	12.12.2022	Species Biodiversity, ecosystem, landscape levels
11	13.12.2022	Drivers of biodiversity
12	14.12.2022	Distribution of biodiversity
13	15.12.2022	Evolution of biodiversity
14	16.12.2022	Overview of ecological communities
15	17.12.2022	Number of species world wide
16	19.12.2022	Change of biodiversity overtime in different regions of the world
17	20.12.2022	Concept of diversity hotspots
18	21.12.2022	Biodiversity in India in the past and present
19	22.12.2022	Global distribution of biodiversity
20	23.12.2022	Quiz -1
21	24.12.2022	Ecosystem functions related to biodiversity
22	26.12.2022	Definition of ecosystem services
23	27.12.2022	Importance of biodiversity ecosystem functioning for supply of Ecosystem services (Direct and Indirect)
24	28.12.2022	Methods of valuation
25	29.12.2022	Biodiversity loss and its consequences

26	30.12.2022	Estimates of extinction rates worldwide and in India
27	31.12.2022	Analyzing and discussion of causes
28	02.01.2023	Extinction/changes in biodiversity
29	03.01.2023	Summarizing causes and consequences
30	04.01.2023	Causes of vulnerability to extinction
31	05.01.2023	Changing of the environment
32	06.01.2023	Habitat fragmentation and destructions
33	07.01.2023	Climate change, Over exploitation,
34	09.01.2023	Consequences loss of gene pool, loss of ecosystem services, livelihood.
35	10.01.2023	Quiz -2
36	11.01.2023	Overview of genetic variability
37	12.01.2023	Population biology of endangered species
38	13.01.2023	Conservation genetics, wild life biology
39	16.01.2023	Ex-situ conservation (facilities, establishment of new populations)
40	17.01.2023	Captive breeding, reintroduction, Discussion advantages and disadvantages
41	18.01.2023	In-situ conservation assessment of adequate areas design and management of protected areas
42	19.01.2023	Connectivity corridors, sustainable use of Biodiversity
43	20.01.2023	Conservation and society
44	21.01.2023	Conservation net works
45	23.01.2023	Final assessment

  
 LECTURER IN Zoology  
 STSN Govt DEGREE COLLEGE  
 KADIRI - 515 1 J1  
 Sri Sathya Sai (Dist)

Permission letter to conduct Certificate Course – 2022-23

**From**

Dr.D.ADINARAYANA  
Department of Zoology  
S.T.S.N GDC,  
Kadiri,

**To**

The Principal,  
S.T.S.N GDC,  
Kadiri,

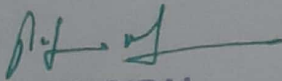
Respected Principal,

**Subject:** Permission to conduct **Certificate Course** on **Biodiversity and conservation** in the academic year- 2022-23

The Department of Zoology at S.T.S.N. Government Degree College, Kadiri, kindly requests your permission to conduct a Certificate Course in Biodiversity and conservation in the academic year 2022-23.

The proposed schedule for the Certificate Course is 1.12.2022 to 23.1.2023, and we plan to hold the sessions within the college premises. We seek your approval to utilize the college facilities for this purpose, and we assure you that we will adhere to all college regulations and guidelines.

Thank you for considering our request.



**PRINCIPAL**  
STSN GovL DEGREE COLLEGE  
KADIRI - 515 591  
Sri Sathya Sai (Dist.)



Yours faithfully,  
**LECTURER IN Zoology**  
STSN GovL DEGREE COLLEGE  
KADIRI - 515 591  
Sri Sathya Sai (Dist.)

## Notification for Admission

Applications are invited from the eligible candidates for admission into the Certificate Course in Biodiversity and conservation for the year 2022-2023

**Eligibility:** Graduate in any discipline.


**Duration of Course:** 45 Hours

**Admission Process:** The prescribed application form for the Admission is available in the Department. The filled in applications shall be submitted to the Course Coordinator, Certificate course in Biodiversity and conservation, Department of Zoology, STSN Govt. Degree College, Kadiri Sri Satya Sai (Dist). Defective applications and applications received after the prescribed date will summarily be rejected and fee once paid will not be refunded or adjusted for any other purpose.

The admission schedule:

Last date of receipt of application: 29-11-2022

**Class Details:** Classes of the course shall be conducted on working days between 1-12-2022 and 23-1-2023, daily one hour from 4.00 pm to 5.00 pm.

  
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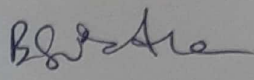
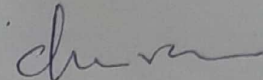
CERTIFICATE COURSE IN BIODIVERSITY AND CONSERVATION

DEPARTMENT OF ZOOLOGY


STSN GOVT DEGREE COLLEGE KADIRI

SRI SATYA SAI DISTRICT, AP.

**List of Students**

Admission Number	Name of the Student	Address	Signature of the Student
1.	BOYA SUJATHA	III SEM CZPMT, STSN GDC KADIRI	
2.	CHARUPALLI CHARANTEJA	III SEM CZPMT, STSN GDC KADIRI	
3.	DANDAGALA KRISHNAVENI	III SEM CZPMT, STSN GDC KADIRI	D. Krishnaveni
4.	GODDEVELAGALA PALLAVI	III SEM CZPMT, STSN GDC KADIRI	G. Pallavi
5.	GODDUVELUGALA GANESH	III SEM CZPMT, STSN GDC KADIRI	G. Ganesh
6.	ANKIREDDIPALLI SIVA PRASAD	III SEM BZC, STSN GDC KADIRI	A. Sthiraprakash
7.	BADIKAYALA RAJASEKHARA	III SEM BZC, STSN GDC KADIRI	B. Raju
8.	BADISEM SIMHADRI	III SEM BZC, STSN GDC KADIRI	Simha
9.	BASINENI MOULIKA	III SEM BZC, STSN GDC KADIRI	B. Molika
10.	BHUKYA YAMUNA	III SEM BZC, STSN GDC KADIRI	B. Yamuna
11	BUDAGALA VENU	III SEM BZC, STSN GDC KADIRI	B. Venu
12.	CHERUVU SADIQ	III SEM BZC, STSN GDC	Sab

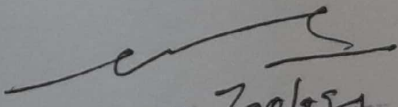
		KADIRI	
13.	DASARI SURESH	III SEM BZC, STSN GDC KADIRI	D. Suresh
14.	Dhanavath Anu	III SEM BZC, STSN GDC KADIRI	D. Anu
15.	GUTTI MOHAN	III SEM BZC, STSN GDC KADIRI	G. Mohan
16.	B.Mahesh	III SEM CZS, STSN GDC KADIRI	B. Mahesh
17.	J.Aparna	III SEM CZS, STSN GDC KADIRI	J. Aparna
18.	J.Manohar	III SEM CZS, STSN GDC KADIRI	J. Manohar
19.	K. Sathish Kumar	III SEM CZS, STSN GDC KADIRI	K. Sathish Kumar
20.	K.Tharun Naik	III SEM CZS, STSN GDC KADIRI	K. Tharun Naik

  
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**KADIRI - 515 131**  
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S.T.S.N GOVERNMENT DEGREE COLLEGE

KADIRI, SRI SATYA SAI DIST. AP

NAAC Accredited with 'B' Grade

DEPARTMENT OF PARAMEDICAL TECHNOLOGY

### Certificate of Participation

This is to certify that Sri/Mr./Miss \_\_\_\_\_ of I/II/III B.Sc. (CZPMT) has successfully completed Certificate Course with 45 hours in BIODIVERSITY AND

CONSERVATION Conducted by the Department/ Wing of ZOOLOGY STSN Govt Degree

College Kadirli, During the Academic Year 2022-2023.

Course \_\_\_\_\_

Head of the Department

COORDINATOR  
LECTURER  
STSN Govt DEGREE COLLEGE  
KADIRLI - 515 591  
Sri Satya Sai (Dist).

16

Principal  
PRINCIPAL  
STSN Govt DEGREE COLLEGE  
KADIRLI - 515 591  
Sri Satya Sai (Dist).



CERTIFICATE COURSE IN BIODIVERSITY AND CONSERVATION

DEPARTMENT OF ZOOLOGY

STSN GOVT DEGREE COLLEGE KADIRI

SRI SATYA SAI DISTRICT, AP.

S.N O	NAME OF THE STUDENT	1-12-2022	2-12-2022	3-12-22	5-12-22	6-12-22	7-12-22	8-12-22	9-12-22	10-12-22	12-12-22	13-12-22	14-12-22	15-12-22	16-12-22	17-12-22	19-12-22	20-12-22	21-12-22	22-12-22	23-12-22	24-12-22	26-12-22	27-12-22	28-12-22	29-12-22	30-12-22	31-12-22	2-1-2023
1.	BOYA SUJATHA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2.	CHARUPALLI CHARANTEJA	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3.	DANDAGALA KRISHNAVENI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4.	GODDEVELAGA LA PALLAVI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5.	GODDUVELUG ALA GANESH	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6.	ANKIREDDIPAL LI SIVA PRASAD	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7.	BADIKAYALA RAJASEKHARA	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	BADISEM SIMHADRI	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9.	BASINENI MOULIKA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	BHUKYA YAMUNA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	BUDAGALA VENU	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12.	CHERUVU SADIQ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	DASARI SURESH	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



CERTIFICATE COURSE IN BIODIVERSITY AND CONSERVATION

DEPARTMENT OF ZOOLOGY

STSN GOVT DEGREE COLLEGE KADIRI

SRI SATYA SAI DISTRICT, AP.

S.N O	NAME OF THE STUDENT	3-1-2023	4-1-23	5-1-23	6-1-23	7-1-23	9-1-23	10-1-23	11-1-23	12-1-23	13-1-23	16-1-23	17-1-23	18-1-23	19-1-23	20-1-23	21-1-23	23-1-23
1.	BOYA SUJATHA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2.	CHARUPALLI CHARANTEJA	a	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/
3.	DANDAGALA KRISHNAVENI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4.	GODDEVELAGA LA PALLAVI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5.	GODDUVELUG ALA GANESH	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6.	ANKIREDDIPAL LI SIVA PRASAD	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/
7.	BADIKAYALA RAJASEKHARA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	BADISEM SIMHADRI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/
9.	BASINENI MOULIKA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	BHUKYA YAMUNA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	BUDAGALA VENU	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12.	CHERUVU SADIQ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	DASARI SURESH	/	/	/	/	/	/	/	/	/	/	/	17	/	/	/	/	/

