



CRITERION	II	Teaching-Learning and Evaluation
KEY INDICATOR	2.3	Teaching - Learning Process
METRIC	2.3.1	Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

DEPARTMENT OF ZOOLOGY (ACADEMIC YEAR 2022-2023)

Introduction

Student-centered learning means inverting the traditional teacher-centered understanding of the learning process and putting students at the centre of the learning process. Through peer-to-peer interaction, collaborative thinking can lead to an abundance of knowledge. In placing a teacher closer to a peer level, knowledge and learning is enhanced, benefitting the student and classroom overall.

2.3.1 (a)- Participative Learning	National Seminar
	Turtle Release

NATIONAL SEMINAR - Recent trends in floral and faunal invasion in Kerala

Programme Report:

Invasion by alien species is of major concern in maintaining the biodiversity and richness of our natural forested landscapes and ecosystems. To create awareness and to interact with experts in the field, the Department of Botany and Zoology in association with the biodiversity club, Christ College (Autonomous), Irinjalakuda jointly conducted a two-day national seminar entitled “Recent trends in Floral and Faunal Invasion in Kerala” on 8th and 9th February 2023 as an apart of World Wetland Day 2023. The programme was conducted in co-sponsorship with the Kerala State



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Council for Science Technology and Environment (KSCSTE) and Kerala State Biodiversity Board (KSBB). Dr. T V Sajeev, Chief Scientist and Registrar-in-charge, KSCSTE – Kerala Forest Research Institute delivered the Keynote address of the seminar. He shared his on-field experience in working with invasive species and the successes and failures he came across in these years of research. Dr Maneetha T K, Assistant Professor and Head, Department of Zoology, Mahatma Gandhi Memorial College, Udupi, Karnataka, Dr C P Shaji, Conservation biologist, Malabar Natural History Society, Calicut, Dr Prashant Narayanan S, Research Associate, Advanced Centre for Environmental Studies and Sustainable development, Mahatma Gandhi University, Kottayam, Mr Ranjith C R, Beat Forest Officer, Chimmony wildlife sanctuary, Peechi wildlife division and Dr R Soumya, Assistant Professor (Adhoc), Department of Botany, Christ College (Autonomous), Irinjalakuda as the other resource persons for the programme. They enlightened the audience with the different invasive fishes, invasive earthworms and invasive flora of Kerala and the threat they are causing to the ecosystem of the state. The infestation by *Lantana camara*, *Chromolaena odorata* and *Achatina fulica* in Kerala was discussed in detail by the resource persons. Research papers by research scholars and students were also invited to which 17 abstracts were received and 15 students participated in the oral presentation. The best oral presentation was awarded with a certificate and memento. There were more than 100 participants in the programme. A book of abstracts was distributed among the participants. The seminar published a proceeding with ISBN including the full research paper of the oral presentation. Prof. E. J. Vincent, Coordinator, PG Botany and Dr Sudhikumar A. V., Head, Department of Zoology were the coordinators of the programme. Dr. Bijoy C. and Dr. R Soumya were the convener and organizing secretary of the seminar respectively.


Programme Outcome:

The participants brainstormed with the idea of ecosystem conservation, and invasive species.



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Brochure:


 **CHRIST**
COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA

National Seminar on
**RECENT TRENDS IN FLORAL AND
FAUNAL INVASION IN KERALA**





In connection with
World Wetland Day 2023

Organized by:
Department of Zoology and Department of Botany

In association with
Biodiversity Club
Christ College (Autonomous), Irinjalakuda
Reaccredited by NAAC with Grade 'A++'

 Date : 8th & 9th February, 2023
Venue: Fr. Jose Thekkan AC Seminar Hall, Christ College

Co-sponsored by
Kerala State Council for Science Technology & Environment (KSCSTE)
&
Kerala State Biodiversity board (KSBB)



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IMPORTANT DATES

January 30th, 2023: Last date of Abstract submission

February 4th, 2023: Acceptance of abstract

February 6th, 2023: Last date for registration

[Registration and payment through the given link](#)

CLICK HERE TO REGISTER

Organizing Committee

Patron: Dr. Fr. Jolly Andrews CMI
Principal

Co-ordinators: Prof. E. J. Vincent
Coordinator, PG Botany
Dr. Sudhikumar A. V.
HOD and Assistant Professor, Department of Zoology

Convenor: Dr. Bijoy C.
Assistant Professor, Department of Zoology

Organizing Secretary: Dr. R. Soumya
Assistant Professor (Ad Hoc), Department of Botany

Committee members:

Mr. Febin Francis, *Thrissur District co-ordinator, Kerala State Biodiversity Board*

Dr. Leyon Varghese, *Assistant Professor, Department of Zoology*

Dr. Abhilash Peter, *Assistant Professor, Department of Zoology*

Dr. Sr. Dilla Jose, *Assistant Professor, Department of Zoology*

Dr. Sumesh N V., *Assistant Professor (Ad Hoc), Department of Zoology*

Prof. Jacob Abraham Pulikkal, *Associate Professor, Department of Botany*

Dr. C. J. Mani, *Visiting Professor, Department of Botany*

Ms. Sweety M. S., *Assistant Professor (Ad Hoc), Department of Botany*

Ms. Sabeena A. M., *Assistant Professor (Ad Hoc), Department of Botany*

Ms. Sreelakshmi V. V., *Assistant Professor (Ad Hoc), Department of Botany*

National Advisory Committee

Dr. T. V. Sajeev, *Registrar-in-charge, Sr. Principal Scientist, Head of Forest Health Division, KSCSTE-KFRI, Peechi, Kerala*

Dr. Maneetha T. K., *Assistant professor & HOD, Department of Zoology, M.G.M.College, Udupi*

Dr. R. Soumya, *Assistant Professor, Department of Botany*

Communication and Contact:

Dr. R. Soumya (*Organizing Secretary*)
Department of Botany, Christ College,
Irinjalakuda, Kerala - 680 125
E mail: invasionbiological@gmail.com
Mob: 9947712012

Registration Fee

Students (UG/PG) : ₹ 100
Research Scholars : ₹ 200
Faculty/Scientists : ₹ 500
Mode of payment : Online



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About College

Christ College (Autonomous), Irinjalakuda is a premier educational institution established in 1956. Ours is an ecofriendly campus which has been honoured by the Government of Kerala by awarding the 'Energy Conservation Award' in 2011, 'Biodiversity Award' in 2012 and recently 'Green Campus Award' by University of Calicut. The College is affiliated to University of Calicut and reaccredited with 'A++' grade by NAAC in the fourth cycle. The college offers 31 degree, 19 Masters and 6 Ph.D. programmes in various disciplines. The campus is vibrant with teaching and research activities.

About the seminar

Biological invasion is the introduction of a species, purposeful or accidental, outside its native region to alien habitat through human interference and thereby causing ecological and economic impact in the infested area. The major impacts include biodiversity loss, homogeneity in species composition, competition with native species, dominating and replacing the natives, production of secondary metabolites, etc. Likewise in other parts of the world, many invasive floral and faunal species have successfully gained their access to Kerala causing high ecological and economic impact. The seminar will focus on the important aspects of biological invasion, its ecological and economic impact, the detailed glance on selected invasive species in Kerala. The knowledge about the various invasive species will become fruitful if a successful management protocol can be implemented. As a take away, the seminar will assist in successful implementation of effective management and restoration protocols.

Abstract Submission (Guidelines to the contributors)

Participants (researchers, teachers and students) are invited to submit abstracts about various aspects of biological invasion for oral presentation in MS word format, not exceeding 400 words including Title, Author(s), Affiliation and Email address (font size 12, Times New Roman, 1.5 line spacing). Abstracts should be sent through email invasionbiological@gmail.com on or before January 30, 2023. Intimation of acceptance will be communicated by email on or before February 04, 2023.

Oral Presentation:

The first author only is allowed for an oral presentation for a maximum of 7 minutes and 3 minutes for discussion. Certificate and memento will be awarded for the best presentation.



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PROGRAMME

DAY 1: 08-02-2023 (Wednesday)

09.30 am: Registration

10.00 am: Inauguration

Keynote Address (10:30 am to 11:30 am):

Dr. T. V. Sajeev, Registrar-in-charge, Chief Scientist, Head of Forest Health Division, KSCSTE-KFRI, Peechi, Kerala.

Topic : ***"My tryst with biological invasions : failures and lessons learnt"***

11.30 am - 11.45 am : Tea break

Technical Session 1

11.45 am - 01.15 pm

Invited talk : **Dr. C. P. Shaji**
Conservation Biologist, Malabar Natural History Society, Calicut.

Topic: ***"Natural history of invasive and exotic fishes"***

01.15 pm - 02.00 pm: Lunch break

Technical Session 2

02.00 pm - 03.15 pm

Invited Talk: **Dr. Prasanth Narayanan S.**
Research Associate Advanced Centre of Environmental Studies and Sustainable Development, Mahatma Gandhi University, Kottayam

Topic: ***"Are alien earthworms a threat to native species?"***

03.15 pm - 03.30 pm: Tea break

03.30 pm - 04.30 pm: Oral presentation Session 1





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RECENT TRENDS IN FLORAL AND FAUNAL INVASION IN KERALA

DAY 2: 09-02-2023 (Thursday)

Technical Session 3

10.00 am - 11.15 am
 Invited talk : **Dr. Maneetha T. K.**
Assistant professor & HOD, Department of Zoology, M.G.M.College, Udupi,
 Topic: **“A tale of Giant African Snail: Introduction, Spread and Management in Kerala”**

11.15 am - 11.30 am: Tea break

11.30 am - 01.00pm
 Invited talk : **Mr. Ranjith C. R.**
Beat Forest Officer, Chimmony Forest Station, Chimmony Wildlife Sanctuary, Peechi Wildlife Division
 Topic: **“Alien Invasive Plants and their impact on Forest Ecosystem”**

01.00 pm – 02.00 pm: Lunch break

Technical Session 4

02.00 pm - 03.15 pm
 Invited Talk : **Dr. R. Soumya**
Assistant Professor (Adhoc), Department of Botany, Christ College (Autonomous) Irinjalakuda
 Topic: **“Political Ecology of Biological Invasion in Kerala – Case studies of Lantana camara and Chromolaena odorata”**

03.15 pm - 03.30 pm: Tea break
 03.30 pm - 04.30 pm: Oral presentation Session 2
 04:30 pm : Distribution of Certificates and Valedictory function



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Attendance:

**NATIONAL SEMINAR ON
RECENT TRENDS IN FLORAL AND FAUNAL INVASION IN KERALA**
February 8-9, 2023
Attendance - Students

Sl no	Name	Affiliation	Email.id	08/02/2023	09/02/2023
1.	Agnus Rose	Department of Botany Christ college (Autonomous), Irinjalakuda	agnusrose2000@gmail.com		
2.	AISWARYA P MURALIDHARAN	Department of Zoology Christ college (Autonomous), Irinjalakuda	aishwaryapmuralidharan35@gmail.com		
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5.	Albin Jose	Department of Botany Christ college (Autonomous), Irinjalakuda	mazhuvanchery40@gmail.com		
6.	Aleena Joseph	Department of Botany Christ college (Autonomous), Irinjalakuda			



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8. ANAGHA CHELAT	Department of Zoology Christ college (Autonomous),Irinjalakuda	anaghachelat007@gmail.com		
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10. Aneena manuel	Department of Botany Christ college (Autonomous),Irinjalakuda	anuel2001@gmail.com		
11. Aneesha prakash	Department of Botany Christ college (Autonomous),Irinjalakuda	aneeshaani0422@gmail.com		
12. Angel Thomas	Department of Botany Christ college (Autonomous),Irinjalakuda	angelmarythomas24@gmail.com		
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16. ANNTREENA SOJAN P	Department of Zoology Christ college (Autonomous),Irinjalakuda			



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17. Aparna Pushpan	Department of Botany M. E. S Asmabi college, P. Vemballur	aparnapushpan2001@gmail.com	08/02/2023	09/02/23
18. Ashikha Farsana P J	Department of Zoology Christ college (Autonomous), Irinjalakuda	ashikhajafar24@gmail.com		
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22. Ayana R	Department of Zoology Christ college (Autonomous), Irinjalakuda	ayana101r@gmail.com		
23. Bincy Babu	Department of Zoology Christ college (Autonomous), Irinjalakuda	bincykallumaadivij@gmail.com		
24. Chaitra B P	Wildlife studies Kerala Veterinary and Animal Sciences University	chaitragrish2000@gmail.com		
25. DEVIKA SURENDRAN T	Department of Zoology Christ college (Autonomous), Irinjalakuda	devikasurendrant@gmail.com		
26. Divya.p.s	Department of Botany Christ college (Autonomous), Irinjalakuda	divyaps08364@gmail.com		



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27	Faayiza Ikkal	Bsc zoology SN college alathur	Faayizafaz@gmail.com	08/08/23	09/08/23
28	GREESHMA T S	Department of Zoology Christ college (Autonomous),Irinjalakuda	greeshmados27@gmail.com		
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	08/02/23	09/02/23						
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45. Nefla Muhamed			Department of Zoology Christ college (Autonomous), Irinjalakuda	neflamuhamed23@gmail.com				
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47. Raniya k p			Department of Botany Christ college (Autonomous), Irinjalakuda	raniyakp07@gmail.com				



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	08/02/23	09/02/23					
48. RANJINI C R			M. E. S Asmabi college, P. Vemballur	45ranjini@gmail.com	Department of Botany Christ college (Autonomous), Irinjalakuda		
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50. SANDRA K N			Department of Zoology Christ college (Autonomous), Irinjalakuda	sandra3roses@gmail.com	Department of Zoology Christ college (Autonomous), Irinjalakuda		
51. Saniga madhavan. S			Department of Botany Christ college (Autonomous), Irinjalakuda	sanigamadhavan20@gmail.com	Department of Botany Christ college (Autonomous), Irinjalakuda		
52. Shahana shamseer			Department of Botany Christ college (Autonomous), Irinjalakuda	shahanashamseer2001@gmail.com	Department of Botany Christ college (Autonomous), Irinjalakuda		
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55. Sneha c j			Department of Botany Christ college (Autonomous), Irinjalakuda	Snehakunmath123@gmail.com	Department of Botany Christ college (Autonomous), Irinjalakuda		
56. Sooraj sivadas			Department of Zoology Christ college (Autonomous), Irinjalakuda	sooraj.sivadas.ss@gmail.com	Department of Zoology Christ college (Autonomous), Irinjalakuda		
57. Sreeshma Asok K			Department of Zoology	sreeshmamangala10@gmail.com	Department of Zoology		



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	08/02/23	09/02/23
58. Sreya Kumar k		
59. Suryaprabha R		
60. Swapna Sudha TR		
61. Thanzeena. I		
62. Thara Remesh		
63. Themeema Musthafa		
64. VINITHA M S		
65. Vismaya P M		
66. Mithu Manoj c		
67. Divya Jose		



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Diya K. N.	BSc Chemistry, 1st year, Christ college, Irinjalakuda		08/02/2023	08/02/2023	chandana9720@gmail.com
Chandana Byambakan	BSc Chemistry, 1st year Christ college, IJK		08/02/2023	09/02/2023	gopikarajan19@gmail.com
Gopika Rajan	BSc Chemistry, 1st year Christ college, IJK		08/02/2023	09/02/2023	
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77. Anjali K Unnikrishnan	Bsc Zoology First Year Christ College IJK	Anjali, 8/12/23	anjali.k.unnikrishnan24@gmail.com
78. ANJOE SHAIJU	B.Sc Zoology Second yr, Christ College IJK	Anjo, 8-2-23	anjoeshaiju14003@gmail.com
79. Jincy R	Bsc. Zoology 1st year, christ college IJK	Jincy, 9-2-23	jincy.v.s.14003@gmail.com
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NATIONAL SEMINAR ON
RECENT TRENDS IN FLORAL AND FAUNAL INVASION IN KERALA
February 8-9, 2023
Attendance
Registration form - Research Scholars

Sl no	Name	Affiliation	Email.id	08/02/2023	09/02/2023
1.	ALEEM YOOSUF N.	Research Scholar Department of Botany KAHM Unity Women's College, Manjeri	aleemyoosuf@gmail.com		
2.	Amulya Baji K	Research Scholar, Department of Zoology Christ college (Autonomous), Irinjalakuda	amulyabaji@gmail.com		
3.	Asha T. Joy	Research Scholar, Department of Zoology Christ college (Autonomous), Irinjalakuda	ashatheresajoy@gmail.com		
4.	Jobin M J	Research Scholar Dept. Of Zoology University of Calicut	Jobin.m6@gmail.com		
5.	Karthika M Nair	Research Scholar Nodal Center for Biological Invasions (NCBI) KSCSTE-KFRI	karthikamn@gmail.com		
6.	Keerthana P Kumaran	Research Scholar, Department of Zoology Christ college	keerthanapkumaran.olaf.3@gmail.com		



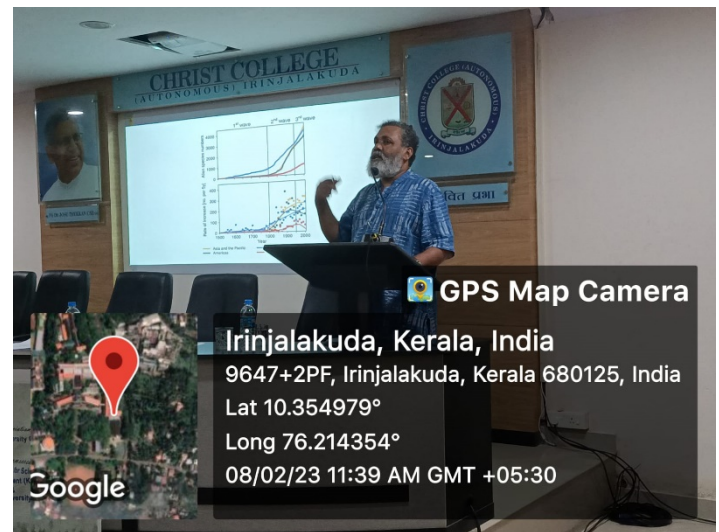
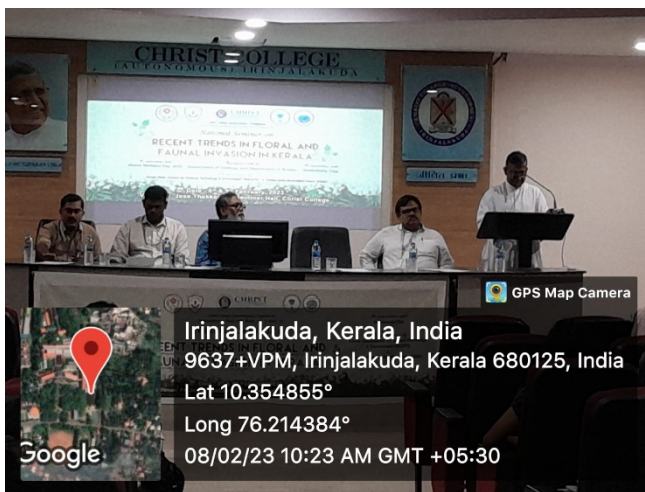
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08/02/23	09/02/23							
7.	LYSAMMA SURYA	Research Scholar Dept. Of Zoology University of Calicut	lysuvinu29@gmail.com					
8.	MANEESH AMMATIL	Research Scholar Department of Entomology Kerala Forest Research Institute	maneeshammattil88@gmail.com					
9.	Maya R	Research Scholar Department of Botany Sanatana Dharma College, Alappuzha	rsmaya205@gmail.com					
10.	MOHAMMAD NADIM ANSARI	Research Scholar Fisheries Resource Management Kerala University of Fisheries and Ocean Studies, Kochi, Kerala	mohammad786nadim@gmail.com					
11.	Premdas S	Research Scholar Nodal center for biological invasion Kerala forest research institute	premmiracle.76@gmail.com					
12.	Rehna.E.T	Research Scholar Centre for Sustainable Future, Amrita Vishwa Vidyaapeetham	rehnaet@gmail.com					
13.	Reshma R.	Research Scholar, Department of Zoology Christ college (Autonomous), Irinjalakuda	reshmaradhakrishnanj95@gmail.com					
14.	Athul Sankar - Department of Zoology Christ College (Autonomous), Irinjalakuda							



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Geotag photos:





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Turtle Release Programme - Programme Report:

In connection with world wild life day 2023, Kerala Forest department, social forestry, Thrissur division range collaborated with Department of Zoology and Bio-diversity club of Christ (Autonomous) College, Irinjalakuda organized ‘Turtle Releasing Programme’ at Panchavadi, Chavakkad on 27th February, 2023 at 4pm. Twenty-four graduate and post graduate students along with 4 faculties participated in the event.

The species of concern is Olive ridley sea turtle (*Lepidochelys olivacea*) which is vulnerable according to the conservation status of IUCN. Panchavadi in Chavakkad is the only place where the nesting of Olive ridley’s takes place. This site is protected under the department of Kerala Forest. All the participant got the chance to release the hatchlings to guide their way to the Arabian sea.

Programme Outcome: The participants got a righteous understanding for the preservation of Mother Nature. And, the turtle hatchlings were secured.



CRITERION	II	Teaching-Learning and Evaluation
KEY INDICATOR	2.3	Teaching - Learning Process
METRIC	2.3.1	Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Brochure:

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
BIODIVERSITY CLUB & DEPARTMENT OF ZOOLOGY

Collaborate with

Kerala Forest Department,
Social Forestry, Thrissur Division-Range
organise

TURTLE RELEASING PROGRAMME
in connection with World Wildlife Day 2023

Venue: Panchavadi Chavakkad
Date: 27th February
Time: 4 pm to 6 pm

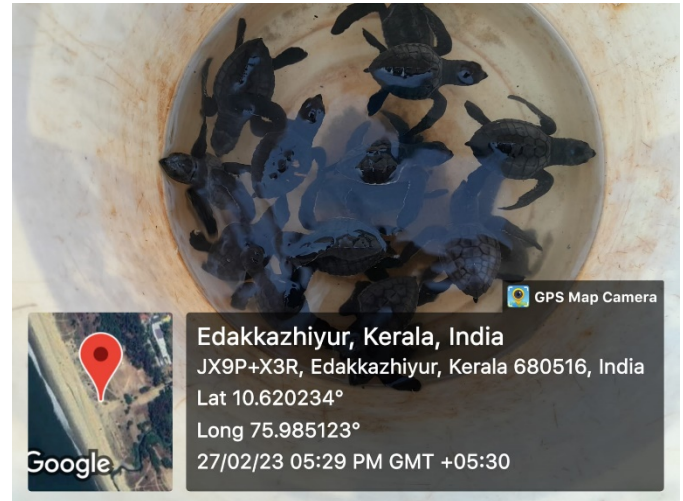
STAFF PROGRAMME COORDINATORS

DR BIJOY C ASSISTANT PROFESSOR, DEPARTMENT OF ZOOLOGY
DR R SOUMYA ASSISTANT PROFESSOR (ADHOC) DEPARTMENT OF BOTANY



CRITERION	II	Teaching-Learning and Evaluation
KEY INDICATOR	2.3	Teaching - Learning Process
METRIC	2.3.1	Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Geotag photos:



PRINCIPAL

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