

Zoology Departmental Report (2024-2025)

Preliminary information

I. Department profile

Dr. Roshan D'Souza – Professor and Head of Department

Ms. Sandhya Kadiru – Assistant Professor

II. Courses/Papers taught

SEMESTER I -

DSC Theory Course: SZOO111 - Diversity of Animal Kingdom - I

DSC Practical Course: SBSZOO111P

Open Elective Courses:

OE101A – Butterfly Gardening

OE101B – Nutrition & Public Health

Indian Knowledge System:

IKS107 – Animal Husbandry in Ancient India

Value Education Courses:

VEC104 – Elements of Ecology

VEC105 – UN Sustainable Development Goals

SEMESTER II -

DSC Minor Theory Course: SZOO122 - Diversity of Animal Kingdom - II

DSC Minor Practical Course: SBSZOO122P

Open Elective Courses:

OE201A – Nutrition & Public Health

OE201B – Butterfly Gardening

Value Education Courses:

VEC204 – Elements of Ecology

VEC205 – UN Sustainable Development Goals

VEC207 – Environmental Science

SEMESTER III

DSC Minor Theory Course: SBSZOO233- Genetics-I, Developmental Biology and Economic Zoology-I

DSC Minor Practical Course: SBSZOO233P

SEMESTER IV

DSC Minor Theory Course: SBSZOO244- Genetics-II, Developmental Biology and Economic Zoology-II

DSC Minor Practical Course: SBSZOO244P

III. BOS composition

BoS Composition (till December 2024)

Dr. Roshan D'Souza - Chairperson, Board of Studies

Ms. Sandhya Kadiru -Senior Teacher

Dr. Vaishali Somani -The Vice-Chancellor's nominee

Dr. B. B. Nath -Subject Expert (outside the Parent University)

Dr. Peeyush Pahade -(outside the Parent University)

Dr. Aldon Fernandes - Representative from industry

Ms. Juili Mirgule - Postgraduate alumnus

Dr. Pushpa Sinkar - Other Member of Faculty

BoS Composition (from January 2025)

Dr. Roshan D'Souza - Chairperson, Board of Studies

Ms. Sandhya Kadiru -Senior Teacher

Dr. Subash Donde -The Vice-Chancellor's nominee

Dr. Goldin Quadros- (Research Institute)

Dr. Alka Chougule-Subject Expert (outside the Parent University)

Dr. Parag Masram- (outside the Parent University)

Ms. Annabel Dsouza - Postgraduate alumnus

Prof. B.B. Nath - Expert from outside college, whenever special courses are being formulated

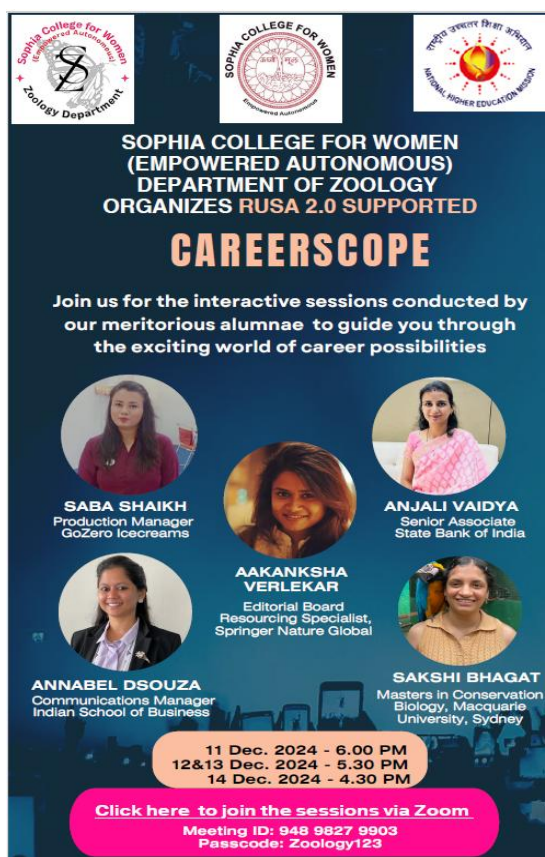
IV. Dates of BOS meetings

13th BoS - 30th September 2024

1. Activities Conducted by the department:

ACTIVITY 1

- Title of the activity/event - CAREERSCOPE
- Date (from & to) - 11th to 14th Dec. 2024
- Number of staff members involved – 2 - Dr. Roshan D'Souza & Ms. Sandhya Kadiru
- Number of students involved - 35
- Guest/Speaker –
 - 11th Dec. 2024 - Ms. Sakshi Bhagat, Masters in Conservation biology Macquarie University, Sydney
 - 12th Dec. 2024 - Ms. Anjali Sharma, Senior Associate, State Bank of India,
 - Ms. Saba Shaikh, Production Manager (QA/QC), GoZero Icecreams
 - 13th Dec. 2024 - Ms. Aakanksha Verlekar, Editorial Board Resourcing Specialist, Springer Nature Global
 - 14th Dec. 2024 - Ms. Annabel Dsouza, Communications Manager, Indian School of Business (Hyderabad)
- Brochure and Geotagged Photographs : Screenshots of the program :



SOPHIA COLLEGE FOR WOMEN
(EMPOWERED AUTONOMOUS)
DEPARTMENT OF ZOOLOGY
ORGANIZES RUSA 2.0 SUPPORTED

CAREERSCOPE

Join us for the interactive sessions conducted by our meritorious alumnae to guide you through the exciting world of career possibilities

SABA SHAIKH
Production Manager
GoZero Icecreams

ANJALI VAIDYA
Senior Associate
State Bank of India

AAKANKSHA VERLEKAR
Editorial Board
Resourcing Specialist,
Springer Nature Global

ANNABEL DSOUZA
Communications Manager
Indian School of Business

SAKSHI BHAGAT
Masters in Conservation
Biology, Macquarie
University, Sydney

11 Dec. 2024 - 6.00 PM
12&13 Dec. 2024 - 5.30 PM
14 Dec. 2024 - 4.30 PM

[Click here to join the sessions via Zoom](#)
Meeting ID: 948 9827 9903
Passcode: Zoology123

zoom Workplace

Recording... 01:30:44 View

Sakshi Rahul Bhagat Roshan D'Souza Sandhya Kaduru

Srushti Patel S2... Megha Gurkera...

S23053 Asmita... Deanne Dsouza... Munazza Merch... Shruti pedamka... Harshita Pande...

Zoya Qureshi (S... Shahnaj khan S... Aliya Shaikh(S2... Areeba Mazgao... Darshana Gupt...

Kirthika Pallar S... Maryam khotal Mubashshera S... Ansari Aliza (S2... Pooja Panchal s...

Marylinn Pretto... Manasi Upadhy...

Participants Chat React Share Host tools Pause/stop recording More End

Search

Anjali Sharma Roshan D'Souza Sandhya Kaduru

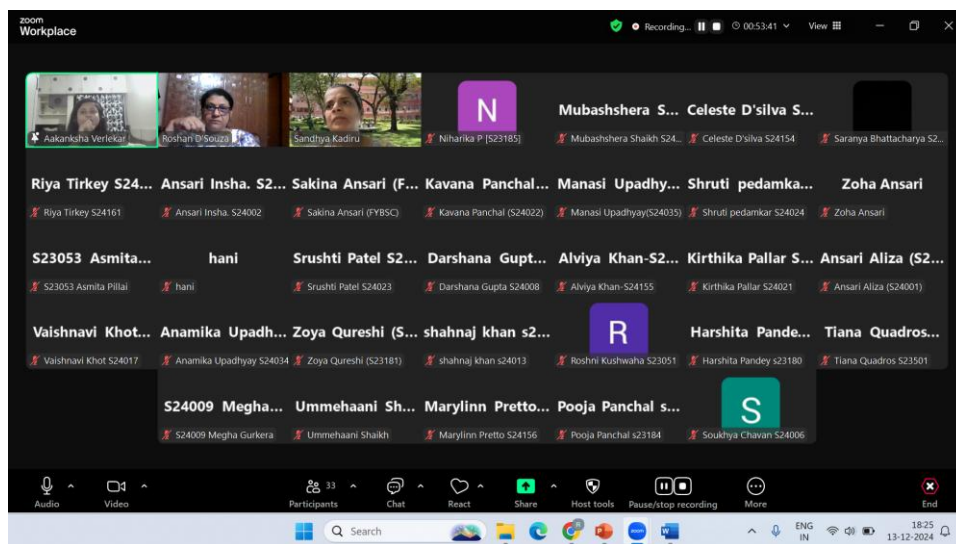
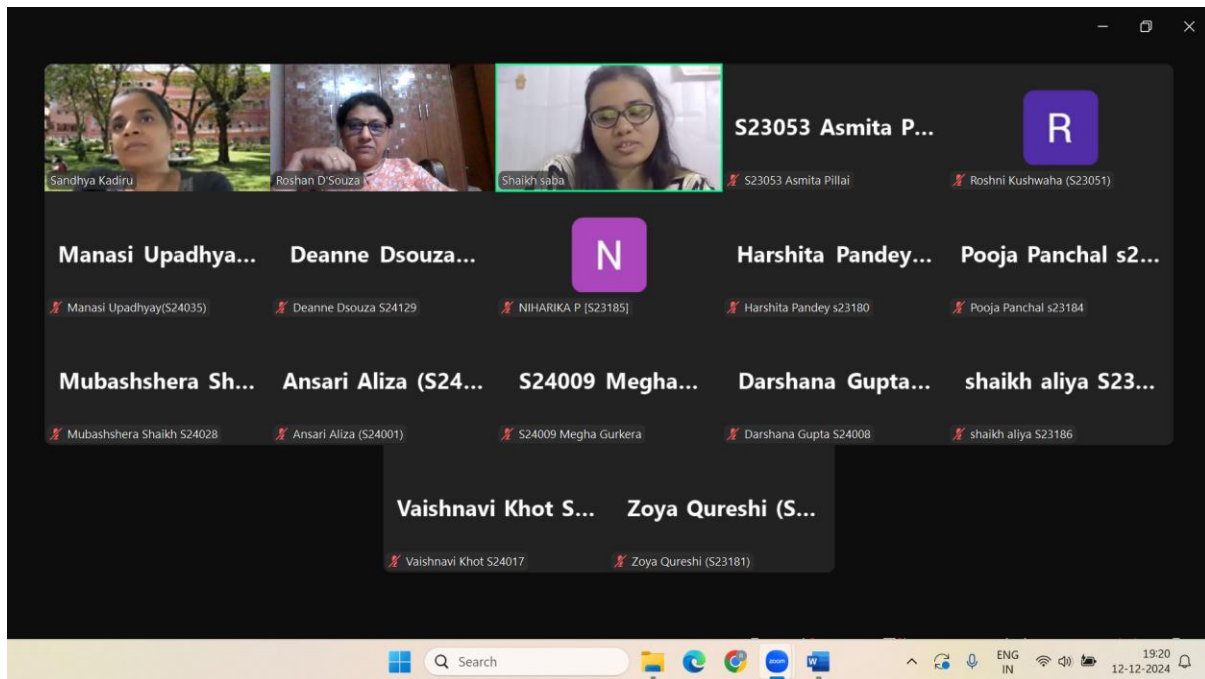
S23053 Asmita P... R

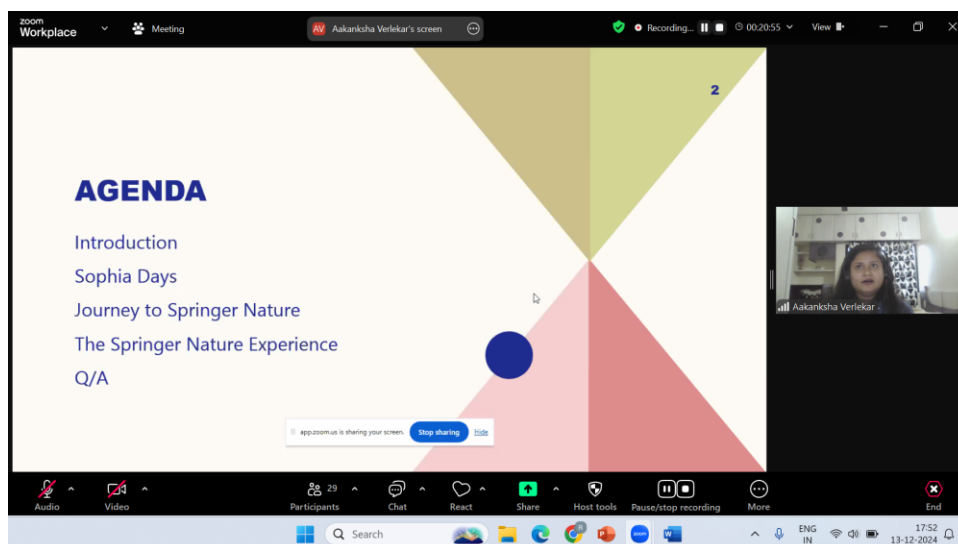
Manasi Upadhy... Deanne Dsouza... Munazza Merch... Zoya Qureshi (S... N

Harshita Pandey... U Srushti Patel S2... Marylinn Pretto... Shaikh Aliya S23...

Pooja Panchal s2... Shruti pedamkar... Vaishnavi Khot S...

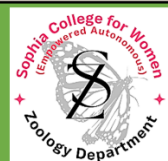
Search





ACTIVITY 2

- Title of the activity/event - RUSA SUPPORTED ACTIVITIES: Value added course – Sustainable Green Ecotourism - E-content development
- Date (from & to) - 19th October 2024 to 30th January 2025
- Number of staff members involved – 2
- Number of students involved – 18
- Guest/Speaker / Resource person for the trip: Mr. Sachin Rane, Naturalist Explorer LLP
- Brochure & Geotagged Photographs :



The Zoology Department, Sophia College for Women
(Empowered Autonomous), Mumbai
In collaboration with Naturalist Explorers LLP
organizes RUSA supported
Value - added Course

SUSTAINABLE GREEN ECOTOURISM

Join us for this immersive course to gain essential knowledge and skills for promoting conservation and responsible tourism

- Explore key topics such as nature conservation principles, biodiversity importance, and ecosystem challenges, while learning best practices for eco-tourism
- Engage in hands-on training to identify local flora and fauna, design educational nature tours, and implement conservation initiatives
- By the end of the course, you'll be equipped to advocate for sustainable practices and contribute positively to the preservation of our natural heritage

Course Structure

Course Outline

Module 1 :

Introduction to Nature Conservation

Module 2 :

Biodiversity Conservation Strategies and Practices

Module 3 :

Sustainable Practices and Eco-Tourism

Module 4 :

Field Training and Observation

Course Modality

- **Theory component** : Online through CANVAS LMS where pre-recorded video lectures will be available to give a flexible mode of learning to the participants
- **Hands-on Training** : Field studies through two nature tours of about four hours of engagement
- **On-campus extension activities**: Spreading awareness about sustainable green initiatives
- **Assessment**: Through continuous assessment
- **Certificate** will be given to those who will score overall 40% from all the assessments

Course Registration

Eligibility

- This is a multidisciplinary course, open to students of Arts as well as Science faculty.
- Students of Non-NEP batch can avail of VAC credits through this course

Course Registration Dates:

7th October - 16th October, 2024

Course Duration: 30 Hours

19th October - 19th November, 2024

Course Registration Link

<https://forms.gle/Yne9yRVurpfVKXVw6>

Course WhatsApp Group Link :

<https://chat.whatsapp.com/IAv5VTthrey4NrcA5qNjKk>

For any queries, email to:

zoo.addoncourse@sophiacollege.edu.in



Mahim Nature Park, Maharashtra – 27th October 2024



Mahim Nature Park, Maharashtra – 27th October 2024



Mahim Nature Park, Maharashtra – 27th October 2024






Bhandup Pumping Station, Mumbai - 22nd December 2024

ACTIVITY 3:

RUSA SUPPORTED : Ananya Activity

- Title of the activity/event – Webinar on The Junk Food Trap and its Impact on Health
- Date (from & to) - 25th February 2025
- Number of staff members involved – 2
- Number of students involved - 43
- Guest/Speaker – Dr. Ratnaraje Krishna Thar
- Brochure & Geotagged Photographs:



**SOPHIA COLLEGE FOR WOMEN
(EMPOWERED AUTONOMOUS)**

ANANYA 2025

DEPARTMENT OF ZOOLOGY
*Under the aegis of RUSA
invites you to a webinar on*

The Junk Food Trap
and its Impact on Health

**GUEST SPEAKER: DR. RATNARAJE
KRISHNA THAR**
(Public Health Nutritionist)

Date: Feb 25, 2025
Time: 5:30 pm
Platform: Zoom

Click here to Register:
<https://forms.gle/ctGiTvG9T9udhPHL8>

(E- certificates
will be provided
to all the
participants who
attend the talk)

zoom Workplace Recording... 01:03:13 View

Dr Ratnaraje Thar Roshni Kushwa Sandhya Kadiru Roshni Kushwa S23... S23503 JILIKA SHETTY Sakina Ansari (S24003) Shifa Qureshi S23052

Shaikh qadriya(... Manasi Upadhy... Riya Tirkey S24... S24156 Marilyn... Mubashshera S... S24129 Deanne... Rahel S24076

Ansari Insha. S2... anamika upadh... Saba Beg (S24005) S23053 Asmita... Areeba Mazgao... Maryam Shaikh... Manasa Sherla...

S24032 Nishak... Umme Hani sha... Ummehaani Sh... Darshana Gupt... zoya khan(S240... A24222 Saiyed...

kirthika pallar S... Bhoomi Gupta (... Zoya Qureshi (S... Ansari Tuba Fat... Harshita Pande... Alviya Khan S2...

Srushti Patel-S... Sania Shk S24030 Shruti pedamka... S24009 Megha... (S24022) Kavan... S24010 Isma Ba... Ansari Aliza (S2...

Audio Video Participants Chat React Share Host tools Pause/stop recording More End

zoom Workplace Meeting Dr Ratnaraje Thar's screen Recording... 00:33:29 View

The high insulin levels send signals for hunger to the brain.

Even though you are not physically hungry, the body craves for more food.

This creates a vicious cycle and causes us to overeat.

Let us look at an example.

When we eat biscuits or laddoo, we are unable to restrict ourselves to one piece.

We crave to eat it more and more.

We mostly finish the entire packet of biscuits or many laddoos at a time.

This is because of the hunger signals sent to the brain.

Dr Ratnaraje Thar

Audio Video Participants Chat React Share Host tools Pause/stop recording More End

ACTIVITY 4

Study trip to Jijamata Udyan, Byculla - FYBSc

- Title of the activity/event – Study trip to Jijamata Udyan, Byculla
- Date (from & to) – 25th February 2025
- Number of staff members involved – 2
- Number of students involved - 41

- Geotagged Photographs :



ACTIVITY 5

Study trip to Jijamata Udyan, Byculla - SYBSc

- Title of the activity/event - Study trip to Jijamata Udyan, Byculla
- Date (from & to) – 8th March 2025
- Number of staff members involved – 1
- Number of students involved - 10
- Geotagged Photographs :



ACTIVITY 6

Community Engagement Programme - Theme: Sustainable Development and Awareness of Ecosystem Conservation

- Title of the activity/event - Community Engagement Programme
- Date (from & to) – 16th and 17th January 2025
- Number of staff members involved – 2
- Total number of students – 55
- Participating Schools:
 - 16th January 2025:
 - 1) 20 students from 8th and 9th Std - Swami Vivekanand International School & Junior College, Kandivali(W)
 - 2) 20 students – St. Domnic Savio, Andheri
 - 17th January 2025
 - 1) Aspee Nutan Academy, Malad – 15 students from 5th Std Collaboration - Jane Goodall Institute, India
- Geotagged Photographs :



16th January 2025



17th January 2025

ACTIVITY 7- Star Status Outreach - Community Engagement Programme On Science Day

- Title of the activity/event - Community Engagement Programme On Science Day
- Date (from & to) – 28th February 2025
- Number of staff members involved – 2
- Number of students involved – 28
 - 1) St. Stephen School – 18 students
 - 2) FYJC Sophia Science students - 10
- Geotagged Photographs :



2. Special pedagogical tools used, other than the lecture method

- i. Use of multimedia like PPTs, Videos
- ii. Debates
- iii. Creation of Padlets
- iv. Seminar presentation by students
- v. Creation of infographics
- vi. Quizzes, Crosswords
- vii. Flipped Classroom with eContent delivery
- viii. Extension of classroom activities
- ix. Survey based assignments
- x. Literature reviews
- xi. Exhibitions / Poster presentations

3. Mentor Mentee programs conducted by the department.

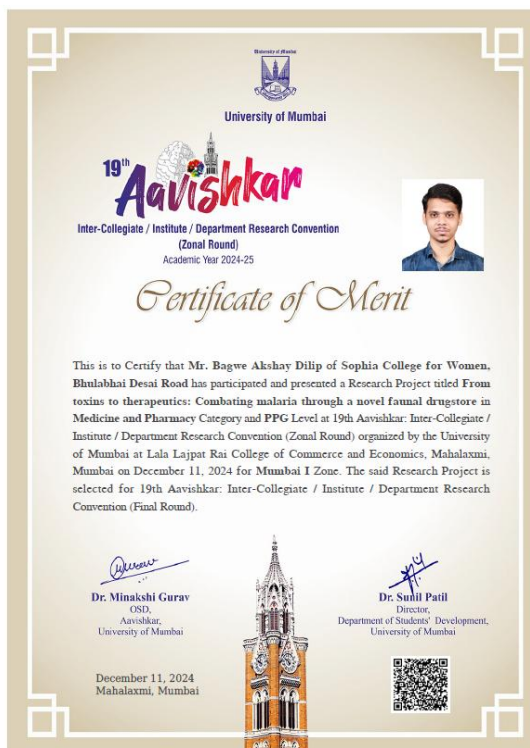
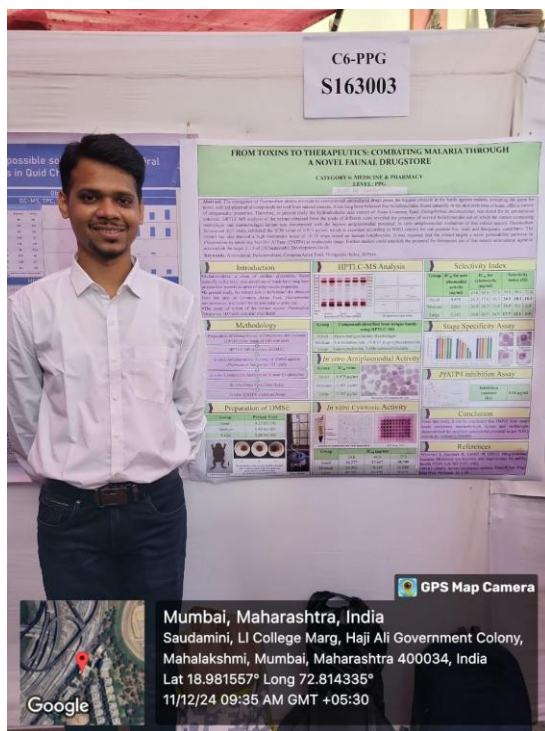
The department was a part of the Mentor Mentee programme conducted by the college

Meetings held with respective mentees: 30th August 2024, 10th December 2024 and 7th Feb 2025

4. Research Papers /Poster Presented

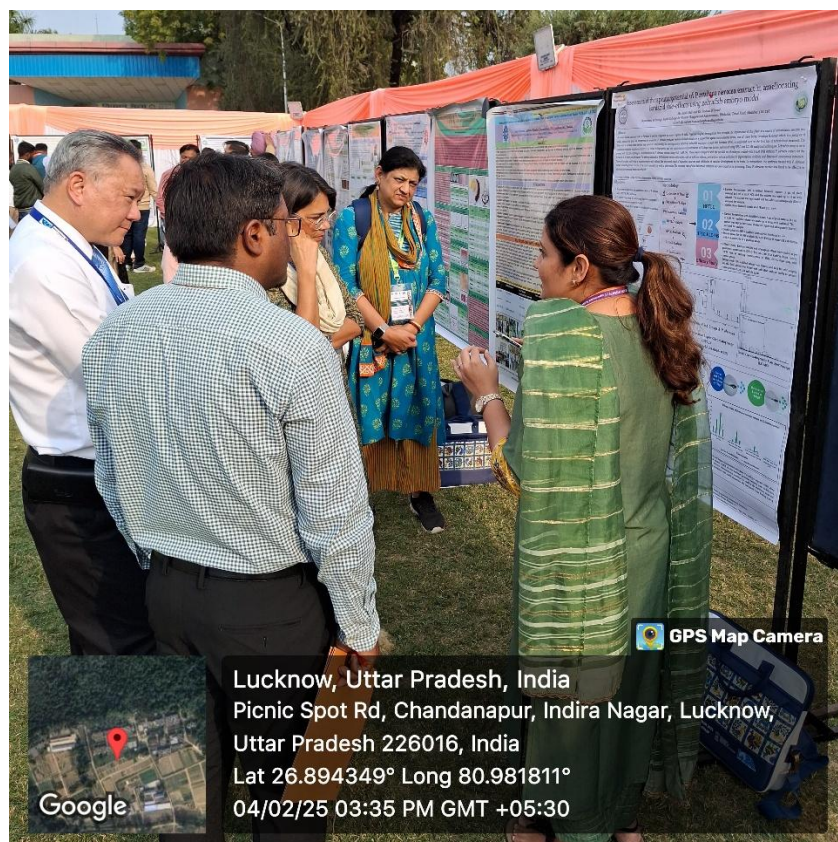
a) Title of the activity/event – Research Poster presented at 19th Avishkar University Research Convention on 11th Dec. 2024

- Number of staff members involved – Dr. Roshan D'Souza
- Number of students involved - 1
- Geotagged Photographs:



b) Title of the activity/event – Poster presented at the international conference on Advances in Medicinal and Aromatic Plant Research in context to Indian Ocean Region – IORA – AMAR 2025

- Date (from & to) – 4th to 6th February 2025
- Number of staff members involved – Dr. Roshan D'Souza
- Number of students involved - 1
- Geotagged Photographs :



Mr. Anjali Mali, Ph. D. Research scholar presented the poster at the international conference on Advances in Medicinal and Aromatic Plant Research in context to Indian Ocean Region – IORA – AMAR 2025



International Conference on
Advances in Medicinal & Aromatic Plant Research in Context to Indian Ocean Region
(Ensuring Trade, Sustainability and Global Transformation)

“IORA-AMAR 2025”

CERTIFICATE

This is to certify that Prof./Dr./Mr./Ms. Anjali Mali has participated in the International Conference “IORA-AMAR 2025” held at CSIR-CIMAP, Lucknow (India) from 4th to 6th February 2025 and presented a paper/poster/invited talk/Plenary talk/Chaired a session.

The conference organizers place on record their gratitude for the kind gesture of active participation.

Organised by
IORA-RCSTT Coordination Centre on Medicinal Plants (ICMP),
CSIR-Central Institute of Medicinal and Aromatic Plants (CSIR-CIMAP), Lucknow

Dr. Anirban Pal
Convenor, IORA-AMAR 2025

Dr. Mohammad Reza Sanjabi
Director IORA-RCSTT, Iran

Dr. Prabodh Kumar Trivedi
Director, CSIR-CIMAP, India

5. Research Guide for PhD students

- Dr. Roshan D’Souza – Guide: Ph.D. Thesis submitted by Mr. Akshay Bagwe, Ms. Sandhya Kadiru and Ms. Shreya Patil
- Dr. Roshan D’Souza – Guide: Ph.D. Thesis awarded – Ms. Arundhati Dahiwal – Open defence was held on 24th December 2024 and awarded Ph.D. as per notification of University of Mumbai dated 31st December 2024.

Date of Submission: 23 -04-2025

Dr. Roshan D’Souza
Professor & Head
Department of Zoology
Sophia College for Women
(Empowered Autonomous)