

Department of genetics and Biotechnology activities 2024-25

1. World Environment Day Report

In view of World Environment Day (5th June), a program was organized by the Department of Genetics and Biotechnology on 20th and 21st of June 2024. The department conducted a guest lecture by Ms. Farida Tampal, State Director WWF India, for World Environment Day Celebrations.

The lecture aimed to educate students on the importance of conserving biodiversity and spread awareness regarding the practice of sustainable development.

The lecture was attended by 80 Life Science students of UG who were enlightened on wildlife conservation and measures to be taken for sustainable development.



As part of the celebration, the department also conducted a Slogan Writing Competition on the topic “Soil Erosion, Renewable Energy, Sustainable Practices and Recycling” for which the faculty coordinator was Dr Sushma Patkar. The event was conducted with an objective to encourage students to explore the importance of the environment and challenge their understanding and expression of the concepts via creative pathways.

Around 20 students from different streams enthusiastically took part in the event and made their contribution. The winners for the competition were decided by the esteemed judge from the department of Languages Dr Sandhya Das. The winners for slogan writing were

First Prize ---- G. Manaswi- B.Sc. BtGC 3rd year

Second Prize ---- C.S. Srinidhi- B.Sc. BtGC 2nd year

Third Prize ---- Bazaru Sadhbhavana- B.Sc Bt.M.C 3rd year



The department conducted a painting competition with an objective to foster awareness and creativity among students regarding environmental issues. Around 23 students participated in the event reflecting a spontaneous interest in environmental issues. The event was overseen by Dr S. Naga Manju. The competition was judged by Mrs Divya Rekha, a senior faculty from the department of Computers and Faculty Co-ordinator of the Expressions Club. The winners of the competition were:

First Prize ---- Sumanjali K., BTMC 3rd year

Second Prize ---- M. Siri, B. Com Honors

Third Prize ---- Roshni Gazalamin, BTGC 2nd year



World Environment Day celebrations were a grand success with huge participation from students.

2. World Biotechnology Day Celebration- REPORT

In view of the World Biotechnology Day (June 16th), a program was organized by the Department of Genetics and Biotechnology on 22nd of June 2024 from 10 AM to 4 PM at Bhavan's Vivekananda College, Sainikpuri. The inaugural was graced by the Principal, Dr. GSVRK Choudhary, Mrs. B. Niraimathi, IQAC Coordinator, and Dr. K. Anuradha, Faculty In-charge Life Sciences, Head of the Department of Microbiology and Star-DBT Co-ordinator. The Chief Guest for the event was Mr. Baba Kishore Mutta, Founder and CEO of EALKAY, who was also the guest speaker for the event. Mr. Kishore believes in creating and nurturing sustainable organisations. The title of the lecture was- "Entrepreneurship Startups in Life Sciences".

68 (UG & PG) Life Sciences students attended the guest lecture and found it very helpful in understanding how to begin startups. It was an insightful and informative session.



As part of the celebrations, a model-making competition was held at 12 Noon, with around 20 participants showcasing different models/live demonstrations at the Science Quadrangle stage. Students displayed amazing models on sewage treatment, eukaryotic cell growth hormones, DNA replication to name a few. The event was judged by our esteemed judges: Dr Manju Devi from the Department of Biochemistry & Nutrition and Dr Mini, Head, Department of Mathematics and Statistics. Dr Manju Devi and Dr Mini appreciated the outstanding models displayed by the participants.



The winners for the model making event were
First Prize Ms Janvi Dayal and Ms Y Vaiashnavi BtGC III year
Second Prize B Sahithi and M Keerthi BtMbC II Year
Third prize P G Gowthami and S Gayatri BtMbC II Year

Prizes and certificates were distributed to the winners of all the events conducted as part of the World Environment Day and World Biotechnology Day during the valedictory function held on 22-06-2024, marking the successful completion of both the programs.

3. Gregor Mendel's Commemoration Day

This day is celebrated on the occasion of **Sir Gregor Johann Mendel's** birthday by the Department of Genetics & Biotechnology, BVC which falls on the **20th of July** to honour his contributions and relate his work to all the far-fetched achievements in Life Sciences.

Inaugural session:

Date: 19th & 20th July 2024

Time: 10:00 AM – 12:00 Noon

Venue: Room No.208, MBA Block

The session started with the lighting of the lamp by the dignitaries. Dr GSVRK Choudary, Principal BVC conveyed his greetings for the event. He also appreciated the initiative for launching a newsletter named **Biohive** by the students. Mrs B Niraimathi, IQAC coordinator also extended her warm wishes for the events. Dr K Anuradha, faculty coordinator life sciences addressed the students highlighting the importance of the subject Genetics in relation to other subjects. Dr B Kalpana, Head, Department of Genetics and Biotechnology shared the importance of the day and also discussed brief history and contributions of Sir Gregor Johann Mendel.

Speaker details: **Dr Ramjee Pallela**, Chief Operating Officer (COO) Atal Incubation Centre - Centre for Cellular & Molecular Biology

Topic: **The emerging trends of Innovation in Genetic & Genome based technology development**

The speaker highlighted the necessity of additional skill sets to be pursued by students in order to add value to their profile. He also related the findings of Sir Gregor Johann Mendel with the emerging trends in innovation. Dr Ramjee also shared some opportunities for internship and career. He insisted on developing and enhancing skills towards innovation and establishing startups.

Events:

1. **TRAITS TREK:** Treasure Hunt

Venue :Vivek Bharathi

Date: 19th July 2024

Time: 1:00pm – 3:00 pm

Faculty coordinator: **Dr S Nagamanju** Asst Professor, Student Coordinators:

G.Manaswi and Vishnu Rallabandi from BTGC-III

No of students : 150

2. **HELIX HAVOC:** Quiz contest

Faculty incharge: **Dr. I. Rachana kumari** Asst Professor Student

Coordinators: Anirban Dash, Mirza Fareedulla Baig, M.Havishmathi, M.Lakshmi

Nikitha and K.Prakruti from MGC III **No of students :-120**



Inaugural session- Launch of Life Sciences Newsletter-BIOHIVE



Guest Lecture by the speaker: Dr Ramjee Pallela



Student participants display the Treasure for the event Trait Trek



Valedictory Function



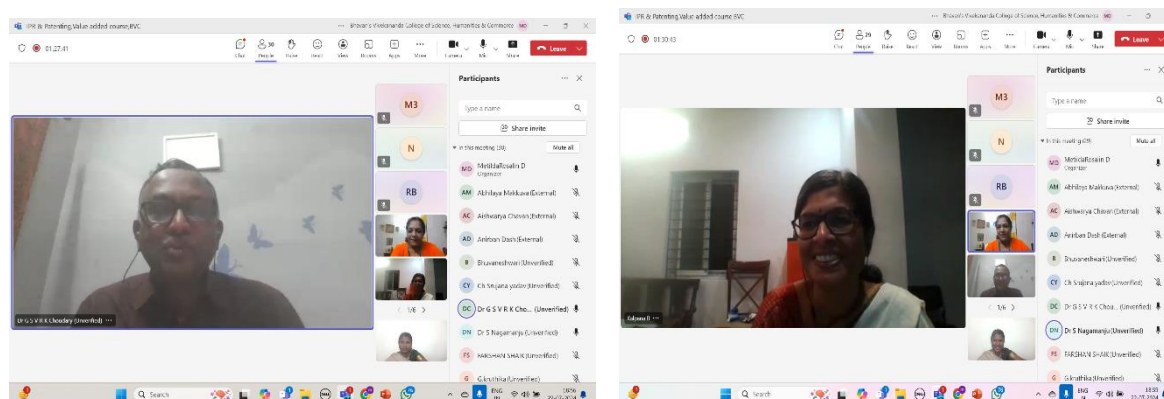
4. Report – IPR and Patenting, Value added course, BVC

The Department of Genetics and Biotechnology offered a Value-added course on IPR and patenting which was online on Microsoft teams' platform from 6 to 8 pm. The course commenced on 22nd July and concluded on 11th August, 2024 with 30 students.

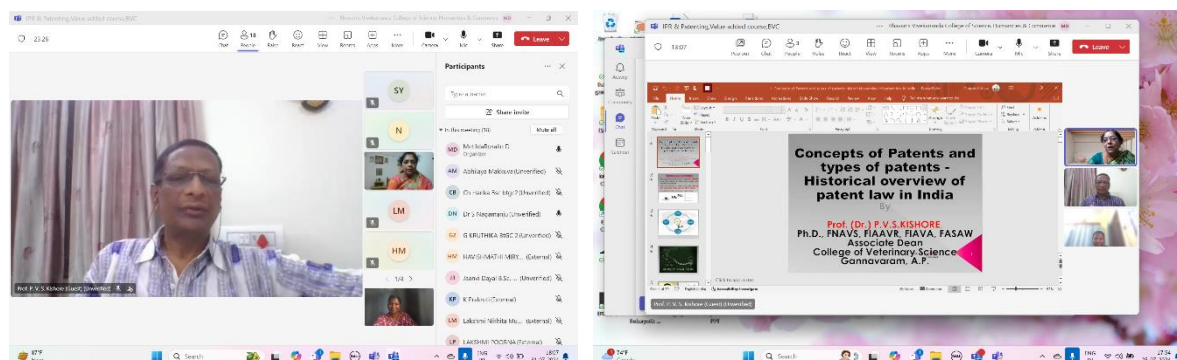
The objective of the course is to understand the importance of IPR and patenting. To analyse the significance of patenting and its role in innovation and economic growth.

Thirty-one students enrolled for this course and four resource persons namely Prof. (Dr).P.V.S.Kishore, Associate Dean, College of Veterinary Sciences, Gannavaram , Dr.Divya Singh,CCMB, Business Development & IP officer, CCMB, Dr.S.Nagamanju and Mrs.D.Metilda Rosalin from the Dept of Genetics and Biotechnology, BVC, delivered their lectures on their assigned topics.

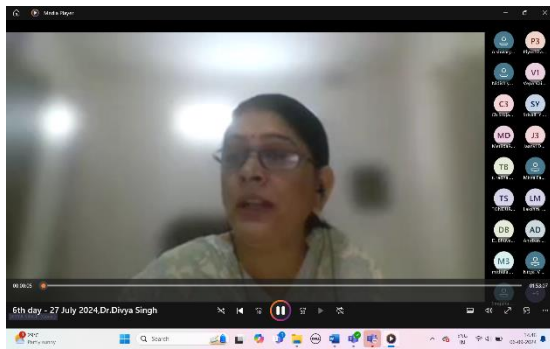
The course concluded with the valedictory programme where students shared the course was certainly informative and interesting.



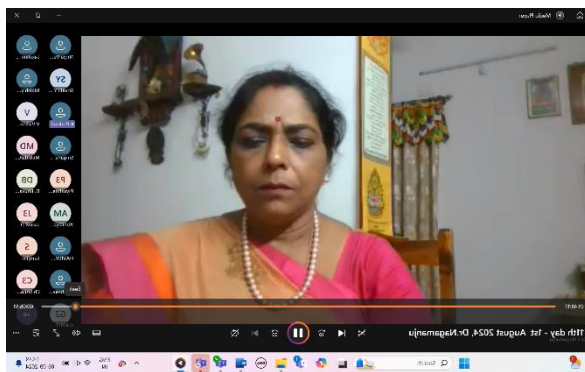
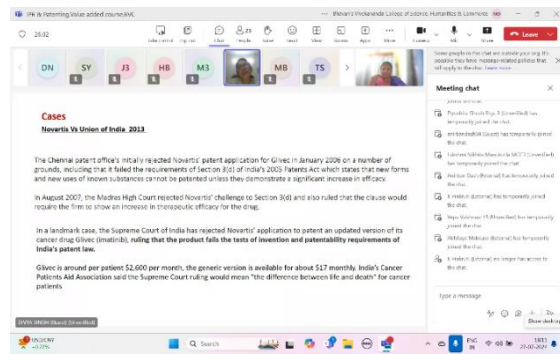
Inauguration



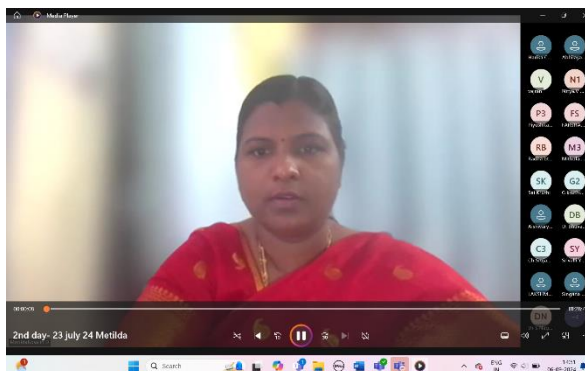
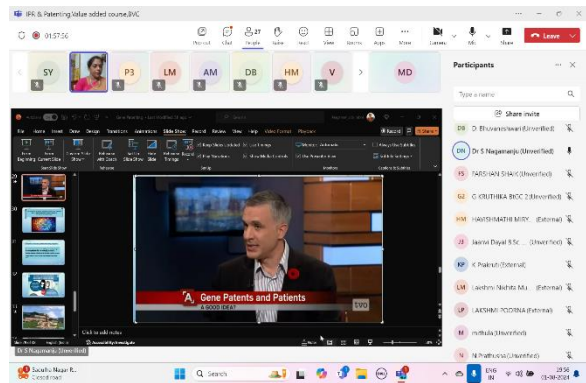
Prof.(Dr)P.V.S Kishore Lecture.



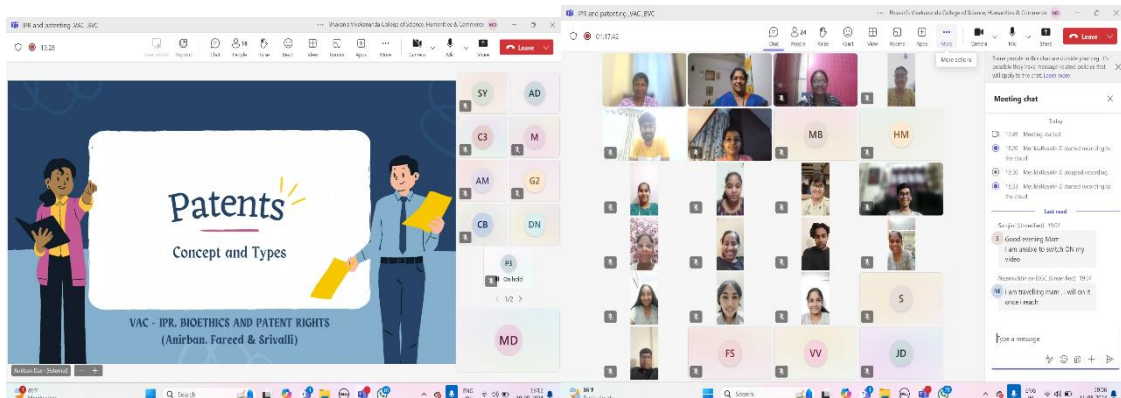
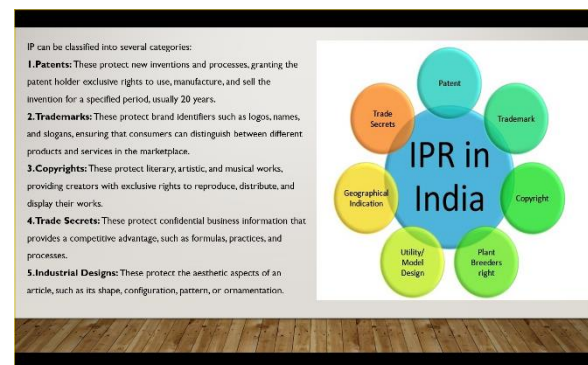
Dr.Divya Singh Lecture



Dr.S.Nagamanju Lecture



Mrs.D.Metilda Rosalin Lecture



Student's presentation and group picture.



Valedictory and feedback



Distribution of certificates.

5. Workshop on Molecular Biology and Biotechnology.

The aim of the workshop is to provide hands-on training to the 12th and Inter Second year students in a few Techniques in Molecular Biology and Biotechnology.

The objective of the workshop is to create awareness and provide information on higher education and career opportunities in Life Sciences especially in the Field of Genetics and Biotechnology.

The total number of participants who registered were 121. Due to this overwhelming response the workshop was conducted for two days, 13-11-24 and 16-11-24.

The participating institutes are Bhavan's Sri Aurobindo Junior College, Sainikpuri, Loyola Jr College Alwal, Army School Bolarum, Army School RK Puram and Kendriya Vidyalaya Trimulgherry.

On 13th and 16th Dr. Kalpana .Head, Department of Genetics and Biotechnology, BVC, gave an overview of the department and gave insights on Genetics and Biotechnology.

The following experiments were conducted in the Genetics & Biotechnology labs and in Room no 63:

1. Genetics Lab

Polymerase Chain Reaction

Agarose Gel Electrophoresis

2. Room No 63

A B O and Rh Blood typing

Preparation of synthetic seed

Identification of Drosophila mutants

3. Biotechnology lab

Plant tissue culture

Isolation of DNA from Cheek cells

Separation of Chlorophyll pigments using Thin Layer Chromatography

The participants had hands-on experience of doing the experiments as mentioned. The students participated enthusiastically and expressed their happiness in learning new practical techniques. The experiments were conducted by the student volunteers of BTGC final year. An assessment exam

was conducted and feedback was taken from the participants. All the participants were given hard copies of participation certificates

Day 1

The number of participants were 47 and all were from Bhavan's Sri Aurobindo Junior College, Sainikpuri. They were accompanied by their Botany faculty Ms. Pallavi.

Day 2

The number of participants for Day 29th were 74. Out of which 26 were from Loyola Jr College Alwal accompanied by their Zoology Faculty Mrs.A.N Saritha, 32 from Army School, Bolarum with their PGT Biology teacher Mrs.V.Rajalekshmi , 2 from Army School RK Puram with their biology teacher Mrs.Geethanjali Mohanty ,Usha Mani NCC officer and physical education teacher and 14 from Kendriya Vidyalaya, Trimulgherry accompanied by their Biology teacher Ms.Asha Kona.



Students demonstrating Isolation of DNA from human cheek cells



Participant working in tissue culture lab



Student explains the procedure for preparation of Synthetic seeds



Student showing the participants *Drosophila* mutants



Principal Sir getting his blood typing done during the workshop



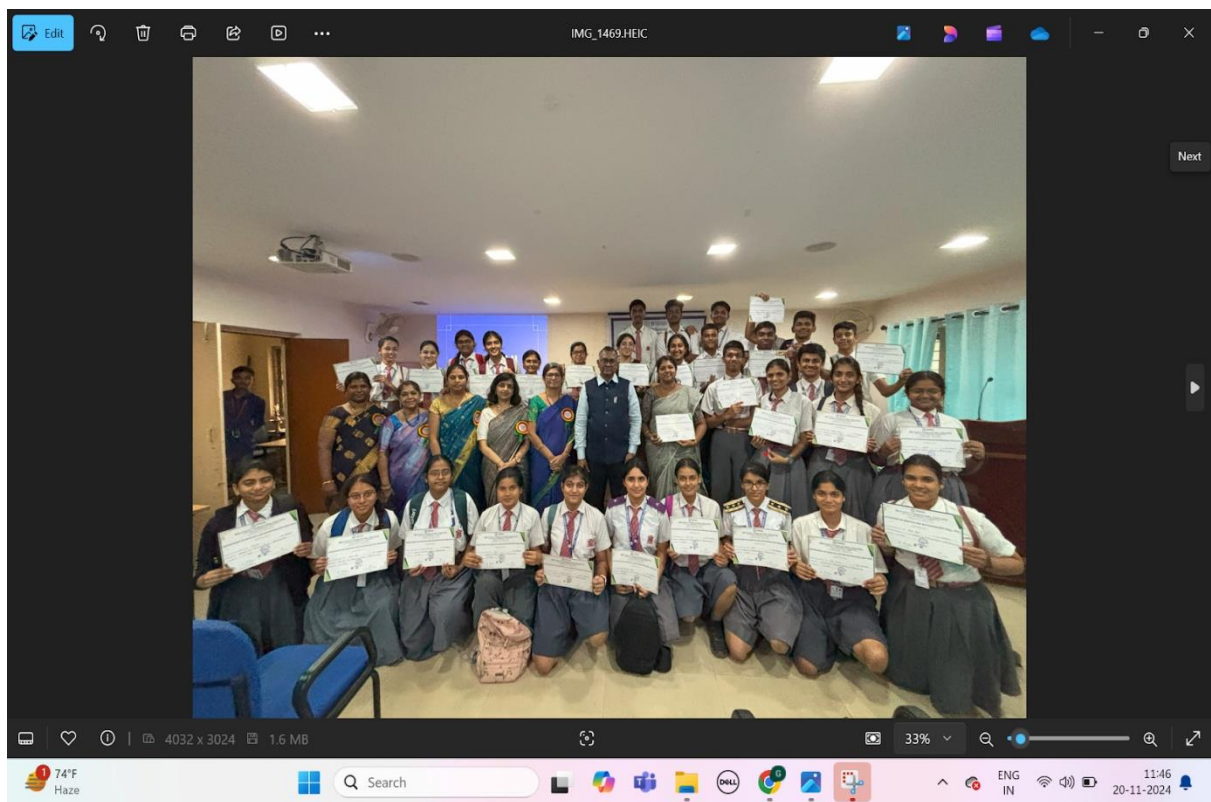
Principal Sir and HoD distributing certificates to the participants



HoD Dr B . Kalpana addressing the students



Kendriya Vidyalaya - Tirumalagiri



Army public school-Bolarum and RK Puram



Loyola academy -Alwal



Faculty members of the department along with Ms.Pallavi, from SAJC

The list of volunteers is as follows:

B.Sc.BTGC III

- 1. Reetu**
- 2. Rajiya**
- 3. Piyushitha**
- 4. Vepa Vaishnavi**
- 5.Juveria**
- 6. Sanjana**
- 7. Poorna**
- 8.Velamanchi Vaishnavi**

9. Manaswi
10. Radha
11. Jaanvi
12. Meghana.
13. Lakshmi Prasanna
14. Shivalalitha
15. Abhilaya
16. Nidish
17. Indu
18. Rahul
19. Vishnu

BTGC II

20. Samyameendra
21. Sri Nidhi
22. Joshua
23. Taruni Sree
24. Sania
25. . Vaishnavi

MGC II

25. Rashmitha
26. Srivalli.

List of Participants: - Day 1

S No	Student Name	Class	Institution	Contact No
1	Jyoti suthar	Inter 2nd yr	Bhavans Sri Aurobindo junior college	7972662311

2	K Prajwala	2 B 2nd year	Bhavans Sri Aurobindo junior college	6305862088
3	K.Siri chandana	12th	Bhavans Sri Aurobindo junior college	9948896869
4	K.Thanushree	Inter II year	Bhavans Sri Aurobindo junior college	6301887706
5	K.vaishnavi	Bipc	Bhavans Sri Aurobindo junior college	6301261745
6	Kaudi Hershil	Inter 2nd year	Bhavans Sri Aurobindo junior college	9391334807
7	Kavadi Niharika	2nd year BIPC	Bhavans Sri Aurobindo junior college	8977824276
8	Koyalkar sanjana	12th	Bhavans Sri Aurobindo junior college	8885407916
9	Kumari Roshni Singh	Bipc -2 year	Bhavans Sri Aurobindo junior college	9441081840
10	Laasyasree	Inter 2nd yr bipc	Bhavans sri Aurobindo junior college	9392997464
11	M. Suraj	2nd year Bipc	Bhavans sri Aurobindo junior college	7093040528
12	Nasreen	II year Bipc	Bhavans sri Aurobindo junior college	8790153955

13	Pasupuleti Jyothi sri	2nd year Bipc	Bhavans sri Aurobindo junior college	9849432292
14	Pathi Ashritha Naidu	2nd year BIPC	Bhavans sri Aurobindo junior college	7893125208
15	Pradium Ramavath	BiPC 2nd year	Bhavans sri Aurobindo junior college	7674028109
16	Pruthvi raj	Intermediate 2nd year	Bhavans sri Aurobindo junior college	7416249038
17	R.Jayadritha	12th	Bhavans sri Aurobindo junior college	9849486048
18	R.Taruni	Class 12th(inter 2nd year)	Bhavans sri Aurobindo junior college	779958 24919
19	Reetu	12	Bhavans sri Aurobindo junior college	9110791474
20	S Charan Karthikeyan	12th	Bhavans sri Aurobindo junior college	9849977990
21	Sahithi Kalpakuri	2 BIPC	Bhavans sri Aurobindo junior college	8639920109
22	Saleemunnisa Begum	BiPC 2nd Year	Bhavans sri Aurobindo junior college	7794883624

23	Sayeeda Fatima Abedi	2nd Year	Bhavans sri Aurobindo junior college	6302248172
24	Shrenik	Bipc 2nd year	Bhavans sri Aurobindo junior college	9000618100
25	Susheel charith	12th	Bhavans sri Aurobindo junior college	9290114246
26	T rakshith	2b Bipc	Bhavans sri Aurobindo junior college	9392062808
27	T Sai Sri harsha	2nd year	Bhavans sri Aurobindo junior college	7799547779
28	T.Janavi	12th	Bhavans sri Aurobindo junior college	9701958933
29	Tanvi Shrivastava	BiPC II Year	Bhavans sri Aurobindo junior college	7702441346
30	Thadem keerthana	Inter 2nd year (Bipc)	Bhavans sri Aurobindo junior college	8688119740 9948037711
31	V R Tanmaye Laya	12th	Bhavans sri Aurobindo junior college	9642866859
32	V.vaishnavi	BiPc 2nd year	Bhavans sri Aurobindo junior college	9390359981
33	Vidhi malviya	12	Bhavans sri Aurobindo junior college	8886799530

34	A Vanessa Rose	BiPC 2nd year	Bhavans sri Aurobindo junior college	7659047177
35	Anjali kumari	2nd year (Bipc)	Bhavans sri Aurobindo junior college	9963137494
36	Ashwathy	2nd year BIPC	Bhavans sri Aurobindo junior college	7013926142
37	Babannagari Rikitha	Inter 2nd yr	Bhavans sri Aurobindo junior college	8096411219
38	Bazaru Chandana rajeshwari	2nd year bipc	Bhavans sri Aurobindo junior college	9440117489
39	D. VAISHNAVI	Inter 2nd year	Bhavans sri Aurobindo junior college	9247348698
40	Gogikar Shivani	12th	Bhavans sri Aurobindo junior college	9390912602
41	INTI ANUSHA	2nd year Bipc	Bhavans sri Aurobindo junior college	9849501470
42	N.Alekhya	2nd year Bipc	Bhavans sri Aurobindo junior college	9640880501
43	Muppu Sruthi	2nd year Bipc	Bhavans sri Aurobindo junior college	8886566668
44	K Manoj Kumar	2nd year Bipc	Bhavans sri Aurobindo junior college	6281984094

45	N Riya	2nd year Bipc	Bhavans sri Aurobindo junior college	9676200203
46	N Koushik Raj	2nd year Bipc	Bhavans sri Aurobindo junior college	9160194959
47	B Aadithya	2nd year Bipc	Bhavans sri Aurobindo junior college	7995172547
48	O Samson	2nd year Bipc	Bhavans sri Aurobindo junior college	9390191195
49	Sai Tarun Rao Jadhav	2nd year Bipc	Bhavans sri Aurobindo junior college	9538899046

Day 2

50	Dea Singh	12th	Army Public School Bolarum	9643483397
51	Vidisha Devli	12th	Army Public School Bolarum	9419019437
52	Pranav	12th	Army Public School Bolarum	7428896122
53	Sudarsan Mitra	12th	Army Public School Bolarum	9985852172
54	Nihira Acharya	12th	Army Public School Bolarum	9441118392
55	Isaani Sahu	12th	Army Public School Bolarum	9403109617

56	Anjali Tripathi	12th	Army Public School Bolarum	8823878652
57	Gokul C	12th	Army public school bolarum	6383262886
58	Addanki Geetika	12th	Army Public School Bolarum	6300601151
59	Srihari Somasundar	12th	Army Public School Bolarum	9652942528
60	Varada P	12th	Army Public School Bolarum	9605603420
61	Avhyuditya Tripathi	12th	Army Public School Bolarum	8527456999
62	Dharma Niharika	12th	Army Public School Bolarum	7330686421
63	Dakkumalla Greeshma Sisira	12th	Army Public School Bolarum	9346305614
64	Richa	12th	Army Public School Bolarum	8076607766
65	N Pratyush Reddy	12th	Army Public School Bolarum	9110577261
66	Rebika Mandal	12th	Army Public School Bolarum	96798 39669
67	Murari Priyanandan	12th	Army Public School Bolarum	9885589137
68	Jiya Jahanvi	12th	Army Public School Bolarum	6901454566
69	M V PAVITHRAN	12th	Army Public School Bolarum	9502810947

70	Deepika	12th	Army Public School Bolarum	7082822591
71	Anshika Mishra	12th	Army Public School Bolarum	9873940058
72	Amrita Goswami	12th	Army Public School Bolarum	7903528669
73	Nidhi	12th	Army Public School Bolarum	9022163142
74	Swati Sahu	12th	Army Public School Bolarum	6369907548
75	Jay Kumar Baxi Patra	12th	Army Public School Bolarum	6309284061
76	KSHAMYA PRASANNA NADIG	12th	Army Public School Bolarum	8872780042
77	Nikhil C Reddy	12th	Army Public School Bolarum	9063051103
78	Tulsi Dantuluri Varma	12th	Army Public School Bolarum	9908101119
79	JANVI SINGH	12th	Army Public School Bolarum	7702359251
80	Amrit Raj	12th	Army Public School Bolarum	8800662273
81	THRISHALA MANOJ	12th	ARMY PUBLIC SCHOOL RK PURAM	9680941718
82	Ashutosh	12th	Loyala academy junior college	9030762551

83	Joseph	12th	Loyola academy junior clg	8555936578
84	K Akshaya	12th	Loyola Academy Junior College	9550930139
85	N. Vandana	12th	Loyola Academy Junior College	9666686804
86	Pk Prathibha velly	12th	Loyola academy junior college	9390989635
87	Purvi Shenoy	12th	Loyola Academy Junior College	7673966408
88	K. Sharon grace	12th	Loyola Academy Junior College	8144072690
89	Verushka Hazel E.	12th	Loyola Academy Junior College	9281057373
90	Romila	12th	Loyola Academy Junior College	6300462642
91	Bhavya Teja sree	12th	Loyola Academy Junior College	8179048103
92	Battu keerthana	12th	Loyola academy Junior College	8341033320
93	Nikhil	12th	Loyola academy junior college	8886555574
94	Shreya Das	12th	Loyola Academy Junior college	9494462960
95	Danny.Ch	12th	Loyola Academy Junior College	8978611348
96	Ria Simran	12th	Loyola Academy Junior College	8121241850

97	Pavithra	12th	Loyola Academy Junior College	7075348156
98	Blessy Mathew	12th	Loyola academy junior college	7981799346
99	K.Leo	12th	Loyola Academy Junior college	9110339348
100	Ch. Anusha	12th	Loyola Academy Junior college	9948493279
101	KRISHNA CHAITANYA	12th	Loyola academy junior college	8978877259
102	Jetty Anusha	12th	Loyola junior college	9010748019
103	M Harshitha	12th	Loyola junior college	9618117230
104	Attili Gnana Sree Sudha	XII MBiPC	Kendriya Vidyalaya Tirumalagiri	9390103601
105	Chandaluri Anoosha	XI B BiPC	Kendriya vidyalaya Tirumalagiri	7009962873
106	T. Manjitha	11th BiPC	Kendriya vidyalaya Tirumalagiri	9103078240
107	MADHADI HASINI REDDY	11th MBiPC	Kendriya vidyalaya Tirumalagiri	7416626126
108	B Vishnu	11th MBiPC	Kendriya Vidyalaya Tirumalagiri	90631 53986

109	Arindam Saikia	11th MBiPC	Kendriya Vidyalaya Tirumalagiri	8639025827
110	Chandaluri Anjali	XI B BiPC	Kendriya Vidyalaya Tirumalagiri	9815880297
111	Tulsi Das	12th B BiPC	Kendriya Vidyalaya Tirumalagiri	+91 99599 76409
112	Yerrajani Chaturya	XII BiPC	Kendriya Vidyalaya, Tirumalagiri	9885162380
113	Nischal Abburi	XII \BiPC	Kendriya Vidyalaya, Tirumalagiri	7093739130
114	Tanuj Thungana	12th B MBiPC	Kendriya Vidyalaya, Tirumalagiri	9390206670
115	M HEMA BINDU	11 B BiPC	Kendriya Vidyalaya, Tirumalagiri	8309754023
116	Ankur Abhilash	12th Biotech	Kendriya Vidyalaya, Tirumalagiri	9509471646

6. Visit to Environment Protection and Training Research Institute (EPTRI) , Gachibowli

The Department of Genetics and Biotechnology, Bhavan's Vivekananda College, organised a field visit to the **Environment Protection and Training Research Institute (EPTRI)**, Hyderabad on the 25th of November, 2024. The visit aimed to provide an in-depth understanding of the Institute's advanced work on environmental research, education and consultancy, in order to enrich the students' knowledge of sustainable practices and environmental conservation efforts. 51 students of B.Sc Life Sciences final year (23 BTGC & 28 MGC) were accompanied by faculty members Dr. B. Kalpana, HoD and Dr. Sushma Patkar, Asst. Prof in Genetics, for the field trip.

EPTRI is a leading institute and certified state laboratory in environmental research and consultancy, holding multiple key certifications. It serves as the State Nodal Agency for Climate Change, a NABET (National Accreditation Board for Education and Training)/ QCI (Quality Council of India) certified EIA (Environmental Impact Assessment) consultant, and operates MoEFCC (Ministry of Environment, Forest and Climate Change)-sponsored ENVIS (Environmental Information System) centers. Additionally, EPTRI is the Strategic Knowledge Management Centre on Climate Change for the Department of Science and Technology (DST), an independent consultant for solid waste management, and offers capacity building and training programs. It is accredited by NABL (National Accreditation Board for Testing and Calibration Laboratories) for environmental and quality management systems, certified for Occupational Health and Safety, and recognized by Scientific and Industrial Research Organization, SIRO-India.



INTRODUCTORY SESSION

During the visit, students learned about EPTRI's diverse educational outreach and skill development programs aimed at fostering environmental awareness and sustainability. The educational tour included an introductory session on EPTRI's initiatives, climate change and green energy, followed by a tour of their laboratories, where students learned about chemical, and microbial analysis of air & water, as well as plant tissue culture practices. They were introduced to the instrumentation used for the laboratory's wastewater management work such as the Gas Chromatography, Mass Spectrophotometer and the Inductive Coupled Plasma Optical Emission Spectrophotometer. Students also explored EPTRI's herbal garden consisting of over 40 medicinal plants. They learned about the Environmental Impact Assessment and

Compliance (EIACP) activities of the Institute, and witnessed a waste recycling demonstration.



STUDENTS OBSERVING THE INSTRUMENTATION

EPTRI offers certificate programs to enhance skills in the environmental sector and encourages schools, colleges, universities and NGOs to join its "Green Force." This initiative provides access to student internships, seminars, webinars, and competitions, while also promoting the sharing of environmental activities for inclusion in EPTRI's newsletter, which were exciting new prospects for the attendees.



ATTENDEES TOUR THE CAMPUS

The students thoroughly enjoyed their visit to EPTRI, engaging in the demonstrations and gaining valuable insights into environmental conservation. The experience broadened their understanding of climate change, green energy, and environmental management, inspiring them to take an active interest in sustainability and contribute to a greener future.

List of Students who participated in the field trip to EPTRI:

BtGC III Year

1. Nitya
2. D. Varshitha
3. Samyuktha
4. Bharath
5. G. Manaswi
6. J. Meghana
7. Vanaja

8. T. Varshitha
9. Harsha
10. Sanjana
11. Abhilaya
12. Lakshmi Prasanna
13. Bhuvaneshwari
14. Jaanvi
15. Shivalalitha
16. Poorna
17. Gagana
18. Sadvika
19. Vaishnavi Velamanchi
20. Nitya V.
21. T. Radha
22. Vishnu
23. Nidish

MGC III Year

1. Anirban
2. Fareed
3. Prakruti
4. Nikhita
5. Havishmathi
6. Sarojini
7. Nishanth
8. Harshitha ch
9. Nandini.S.Walika
10. Ajay Kumar
11. Yousuf
12. Aman
13. Yagnasri.B

14. Neha Pandey

15. N.Harshitha

16. Vandana

17. Rajeswari

18. Vaishnavi

19. P.sravani

20. R.sukeerthi

21. K.varshini

22. M.Akshaya

23. S.Jaya sahithi

24. k.Harika

25. Supriya

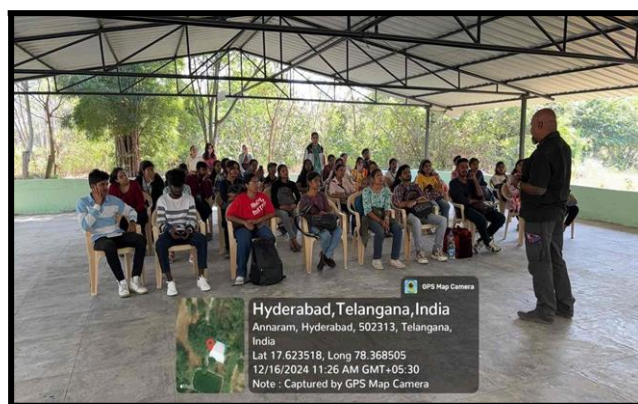
26. Wahed

27. B.sejal

28. Neha

8. Visit to RAAGA Foundation, Hyderabad

The Department of Genetics and Biotechnology, Bhavan's Vivekananda College, organized a field visit to the Raaga Foundation (Rehabilitation Centre for Animals & Birds), Hyderabad, on the 16th of December 2024. The visit was an educational excursion for the students of the Department accompanied by the HoD, Dr. B. Kalpana, and all the faculty members. The primary aim of the visit was to learn about the Foundation's work in animal welfare and conservation, and to witness their interactive and empathetic approach in caring for animals.



INTRODUCTORY SESSION

Raaga Foundation was established in 2018 by Mr. Nandakishore, (BSc. MbGC 2000-2003) alumnus of the college. The Foundation serves as a unique model for ecological restoration and compassionate animal care. The session began with a quick introduction by Mr. Nandakishore. Initially, he tried organic farming but faced difficulties due to the lack of experience. Then he turned to his passion for land rejuvenation, considering both environmental and business aspects. Over time, he successfully transformed his farm into a space dedicated to animal welfare and nature awareness.



HOW TO HOLD AN ALBINO IGUANA AND INTERACT WITH AN EMU: A DEMONSTRATION

The land at the Raaga Foundation is divided into two main sections. One part has wild plants, encouraging the natural growth of flora. This section is home to several animal species, including three types of owls, several snakes and many insects. This area also has plants like sweet potatoes and pumpkins creating a natural balance as these crops attract rats, which in turn provide food for the predators like snakes. A small artificial pond filled with algae and reeds is used for recycling water, demonstrating the use of sustainable practices.



ARTIFICIAL POND AT RAAGA FOUNDATION

The other part of the land is dedicated to animal care. Unlike a traditional zoo, Raaga Foundation emphasizes interaction with the animals to offer visitors a more empathetic and

interactive experience. Students had the opportunity to interact directly with several animals, including Snakes, Iguanas and Emus. These animals, accustomed to human presence, were completely at ease being handled by visitors. The hands-on approach allowed the students to learn about the animals' behavior with a deeper understanding. The students and faculty members had the unique experience of contact with rare animals. The faculty members and students had an extremely memorable experience of physically interacting with reptiles and birds. The Foundation also has a few Dalmatian dogs that were particularly popular with the students for their playful nature.



STUDENTS AND FACULTY INTERACT WITH THE REPTILES

In addition, the Foundation has an open-pond aquarium type enclosure designed to mimic tropical conditions. The students observed a colorful and vibrant diversity of fish species in the open-pond aquarium which also had many apple snails on the water surface. Mr. Nandakishore also shared his plans for the future, which include a walk-in Aviary at Raaga Foundation. He has also designed and constructed the walk-in Aviary at the Indore Zoo, which is known for having one of the most diverse species of birds in the world. His expertise with birds has also led him to be a consultant for the Hyderabad Zoo in the past.



A PEEK INTO AQUATIC LIFE

One of the unique projects handled by Mr. Nandakishore is a pet crematorium, designed to provide a dignified and compassionate farewell to pets. This initiative addresses the growing concern of pet owners to give their pets a respectful farewell after death. The concept of a pet crematorium reflects Raaga Foundation's commitment to offer a humane solution for animal care that extends beyond their lifetime. The crematorium was developed in collaboration with the Greater Hyderabad Municipal Corporation (GHMC) and successfully inaugurated on the 18th of December 2024.



INAUGURATION CEREMONY

The visit to the RAAGA Foundation was an enriching experience for the students of the Department of Genetics and Biotechnology. They gained valuable insights regarding animal care via interactive learning. The opportunity to engage directly with the animals

and learn about the innovative initiatives being developed at the Foundation left the students with a deeper understanding of the importance of empathy in working with animals and the environment. The visit inspired many students to consider the humane treatment of animals and conservation efforts as a key aspect of their future careers.

9. ALUMNI INTERACTION- 06-01-2025

The students of B.Sc BtGC III year had an interaction on 06-01-2025 with two of our alumni in the Genetics Lab. The alumni Mr. Karthik Raj and Mr. Satya Prasad Sahoo were B.Sc MbGC students who graduated in June 2024.

Mr. Karthik Raj is pursuing his M.Sc in Clinical Embryology from Mysore University and Mr. Satya Prasad Sahoo is pursuing his PG Diploma in Hospital Management from Vishwa Vishwani Institute of Management, Hyderabad.

Mr. Karthik Raj spoke to the students about the PG program in Clinical Embryology regarding the details of the curriculum and career prospects in terms of Fertility Centers and research in Embryology. He stressed on the importance of Genetics in the field of Embryology especially newer technologies like Pre-Implantation Genetic Diagnosis (PGD) to prevent genetic diseases in offspring.

Mr. Satya Prasad Sahoo spoke to the students about the scope of programs like Hospital Management & Health Care Management and their career prospects.

Both the alumni also had informal discussion with the students regarding preparation for higher studies and career choices in Life Sciences, especially with respect to Genetics & Biotechnology.

The session was very informative and broadened the knowledge of students in terms of career choices in Life Sciences.



Mr. Satya Prasad Sahoo speaking to students regarding his career choice of Hospital Management



Mr. Karthik Raj speaking to students about the MSc program in Clinical Embryology and its prospects



Mr. Satya Prasad Sahoo having an informal discussion with students and answering their queries



Mr. Karthik Raj having an informal discussion with students and answering their queries

10. Carnival of colors

Department of Genetics and Biotechnology as part of the greENERGY club conducted on 8th February 2025 “Carnival of Colors” a painting competition.

As part of the competition two event were conducted

Painting the waste discarded tree trunks.

Painting a floral design on an A4 size sheet.

Around 25 students from all the streams participated in both the event and exhibited their talent. They turned the waste discarded tree trunks into beautiful art pieces with vibrant colors and designs. Students showcased marvellous talent in brushing some realistic floral designs on A4 sheets

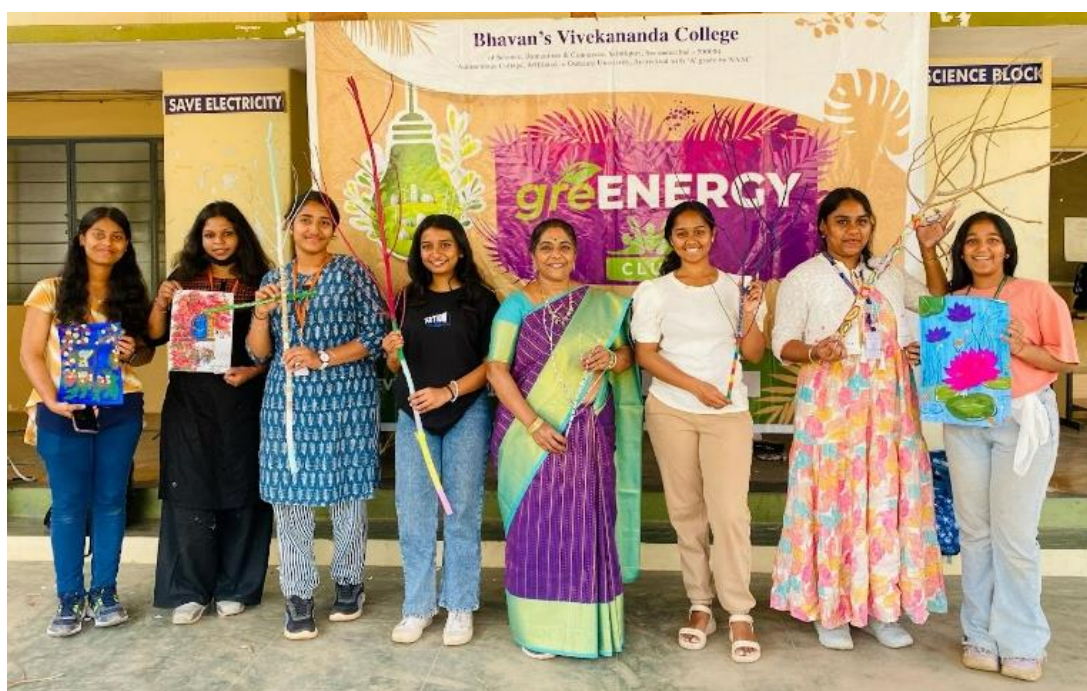
List of students participants for foloral design painting on A4 sheets

S. No	Name	Program	Year	Roll.No
1	N Vishnu priya	Bsc Btgc	Year 2	107223573044
2	Shaik Afsana	BA	Year 1	107224391027
3	Manisha rout	BBA	Year 2	107223684073
4	S.Taruni	Bsc. BTGC	Year 2	107223573021
5	Taruni sree	Btgc	Year 2	107223573006
6	Sadhana Padae	Bsc BTMC	Year 1	107224487037
7	T.Pranashri	BTGC	Year 1	107224573021
8	Pallak Singh	BBA	Year 2	107223684081
9	G.Satya Tarun	Btmc 2	Year 2	107223487009
10	D. Bhavani	Btmc 2	Year 2	107223487008

List of participants for Tree Log Painting

S.No	Name	Program	Year	Roll No
1	Nehanaik	Btmc	Year 1	107224487032
2	Rushita Settipalli	Bsc BtGC	Year 2	107223573045
3	Manisha rout	BBA	Year 2	107223684073
4	Pallak Singh	BBA	Year 2	107223684081

5	Poornima	Btmbc	Year 3	107222487023
6	Jyothi lal	Bcndc	Year 3	107222652011
7	Taruni Sree	Btgc	Year 2	107223573006
8	Sadhana Padae	Bsc btmc	Year 1	107224487037
9	Neha Naik	Bsc btmc	Year 1	107224487037
10	Syed Muskan	BBA 2B	Year 2	107223684089
11	Syed Muskan	BBA	Year 2	107223684089
12	Manisha rout	BBA	Year 2	107223684073
13	Taniya Sadhineni	Bsc bcndc 3	Year 3	107222652025
14	Kritika	Bca-1a	Year 1	107224861047



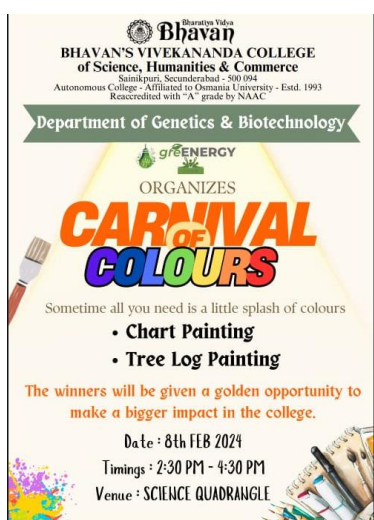
Students showcasing their artwork



Manisha Raut (BBA II yr) 1st prize and Taniya (BcNDC III yr) receiving 1st and 2nd prize for floral designs on A4 sheets from Dr B Kalpana HOD department of Genetics and Biotechnology.



T. Pranasri (BtGC I yr) 1st prize and Vishnupriya (BtGC II yr) receiving 1st and 2nd prize for Tree Log painting from Dr B Kalpana HOD Department of Genetics and Biotechnology.



Flyer shared to the college student group.



Picture clicked with the Prize winners