

ZOOLOGICAL ASSOCIATION: 2022-2023

Department of Zoology constitute the Zoological Association for the PG students. On merit basis PG students were nominated for different posts as office bearers remaining students are member of the association. In this session the office bearers are President: Anukriti Trivedi, Wise-President: Preeti Sahu, Secretary: Damini Sinha and Joint-Secretary: Muskan Tiwari.

The goal of the Zoological Association is to *organise various events on different themes to enhance students' social and academic growth.*



Patron: Dr. P.C. Choubey, Principal, Govt. N.P.G. College of Science, Raipur

Convener: Dr. Seema Gupta, Professor and Head of the Department

Professor in charge: Prof. Renu Maheshwari, **Co-inchrge:** Dr. Kavita Das & Dr. Gunjan Ojha

Members: Dr. Preeti Mishra, Smt. Indu Mandrik, Dr. Shashi Gupta,
Dr. Pallavi Sinha & Mr. Satish Ramtake

Zoological Association: Activities at a Glance, 2022-2023

S. No.	Date	Theme	Activity	Resource Person	Beneficiaries
1.	15.08.22 to 17.08.22	Azadi ka Amrit Mahautsav	- Slogan Competition - Poster Competition - Eassy Writing Competition - Deep Prajwallan	Dr. Sangeeta Bajpai & Dr. Sunita Patra	30
2.	05.09.22	Teachers Day	Program by students	-	40
3.	27.09.22	Induction Program for New students	Guest Lecture: “ Har Ghar Poshan ” on the occasion of A Week of Poshan Maah	Dr. Abhaya Joglekar, Professor, Govt. DB Girls’ College, Raipur	41
4.	01.10.22	Inaugural Function of Zoological Association	Guest Lecture: “ Communicable Diseases and its Prevention ”	Dr. Shiv Kumar Mandrik	33
5.	18.11.22	Inter- Departmental Activity	Guest Lecture: “ Recombinant DNA Technology ”	Dr. Sunita Patra, Asstt. Prof., Botany, Govt. NPG College of Science, Raipur	108
6.	06.01.23	Social Awareness	Swacchata Abhiyan	Participation of M.Sc. Students and staff of the Department.	
7.	11.01.23	Social Awareness	Guest Lecture and Demonstration on “ Sustainable Life Style ”	Mrs. Madhuri Modi, Social Worker, Nagpur (M.S.)	29
8.	08.02.23	International Millet Year, 2023	-Guest Lecture: “ Millets and Digestive Physiology ” - Preparation and Plating of Millets Vanjan ”	Dr. Parmita Dubey, Asstt. Prof., Zoology, Govt. J. Y. Chhattisgarh College, Raipur	32
9.	10.02.23	Cultural Activity	“ Rangoli Competition on Biodiversity”	At Departmental Level	
10.	15.02.23	Cultural Activity	“ Poster Competition on Biodiversity”	At Departmental Level	
11.	20.03.23	World Sparrow Day	Paricharcha: “I Love Sparrow”	Faculties of Department	30
12.	13.04.23	Career Options /Selection after Post Graduation	-Guest Lecture: “ Career Guidance ” Online mode	Dr. Prashant Chauhan, IRS, Joint Commissioner, Central GST and Customs, Mumbai Zone.	37
13.	13.04.23	Biodiversity	Walk and Talk: Biodiversity around the campus	Mohit Sahu, Member of Wetland, Chhattisgarh	65
14.	02.05.23	Skill Development	Apiculture Training Program	Dr. G.P. Paikara, Principal Scientist Entomologist of Indra Gandhi Krishi Vishwavidyalaya, Raipur	33
15.	06.05.23	Career options	Guest Lecture: “ Career Opportunities after M.Sc. Zoology ”	Dr. Sanjay Thiskey, Asstt. Prof., Govt. Digvijay PG College, Rajnandgoan.	
16.	29.04.2023	International Immunological Day	Poster competition on “Immunological talk to public health”	Joint venture with Health Testing Committee	19

Zoological Association and IQAC Samiti of the Department

Report of Activities: 2022-2023

Zoological Association and Departmental IQAC Samiti jointly organized the activities for the betterment of the students.

Azadi ka Amrit Mahautsav: 15.08.22 to 17.08.22

Context: The Indian government is commemorating the 75th anniversary of India's independence as Azaadi ka Amrit Mahotsav.

Aim: The program's goal was to instil a patriotic spirit and a love for the country.

Activity: Azadi Ka Amrit Mahotsav is a festival that honours the willpower and way of life of those people who fight for freedom. In this perspective, Slogan Competition, Poster Competition, Eassy Writing Competition and Deep Prajwallan the program was organized in the department. on this theme to motivate the students to perform their duties for the betterment of their College, Society and finally for their Country.

Outcome: The programme encouraged students to carry out their responsibilities for the nation.

Beneficiaries: 30





Teachers Day Celebration: 05.09.2022

Context: Every Year on 5th September the birth anniversary of Dr Sarvepalli Radhakrishnan, India celebrates Teachers Day as a tribute to his contributions and achievements.

Aim: The celebration of this day is one such event in which both students and teachers look forward.

Activity: The celebration begins with the lighting of the lamp and prayer of Goddess Maa Saraswati. After that all the students cordially welcome their teachers and some of them give speech and said behalf of all the students that they are very thankful to their beloved teachers for constantly leading them and bestowing onto us all of the teachings, moral values, and discipline that we have received. After this students were arranged some sort of activities to entertain teachers. Honourable Principal Sir Dr. P.C. Choubey and other staff members of the department blessed students and wished them for their bright future. In this event plantation was also done.

Outcome: Teachers are known to shape the mind of students in terms of making responsible citizen of the world.

Beneficiaries: 40





Induction Program for New students of M.Sc. Ist Semester: 27.09.22

Lecture on "Nutrition for All: Together Towards a Healthy India"

By: Dr. Abhaya Joglekar

Context: Induction program is to pound newly admitted students about the ethics of the college and feels them to comfortable in the new environment.

Aim: To make acquainted the Students of M.Sc.I semester about the college culture.

Activity: Students in I semester came out from various cultural backgrounds, in order to familiarize them with rules, regulations, teaching method, research, and extracurricular activities, an induction program was organized. By the faculties of the department provided detailed information of the Department and other facilities of the College. They made aware about rules and regulations and code of ethics of the institute. On this occasion the theme of this year Poshan Pakhwada, 2023 is "Nutrition for All: Together Towards a Healthy India" a Guest lecture was delivered by Dr. Abhya Joglekar on "Har Ghar Poshan" on the Week of Poshan Maah. She was aware all of us for healthy food in a very interesting manner with great discussion.

Outcome: The students become familiarized with the institution's culture and traditions.

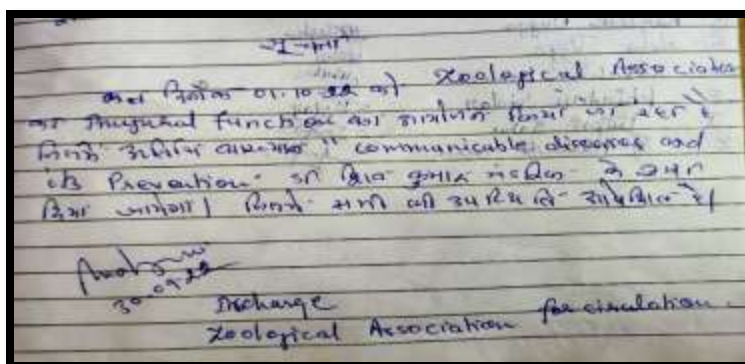
Beneficiaries: 41





Inaugural function of Zoological association: 01.10.22

Lecture on “Communicable Diseases and its Prevention” by: Dr. Shiv K. Mandrik



Context: A communicable disease is one that is caused by viruses, bacteria, parasites, or fungus that can be transmitted from person to person in a variety of ways.

Aim: To aware about communicable disease and its management.

Activity: The inaugural ceremony of the “Zoological Association” commenced with the lighting of lamp and prayer of Goddess Ma Saraswati by our Chief Guest Dr. S.K. Mandrik and by faculty. The program was followed by welcome to our chief guest and Dr. Seema Gupta. The brief introduction of chief guest was given by Professor Incharge of the association Dr. R. Maheshwari. On this occasion a lecture on “Communicable Diseases and its Prevention”, given by our Eminent guest speaker. A communicable disease is spreads from one person or animal to another and can transmit through contact with bodily fluids, insect

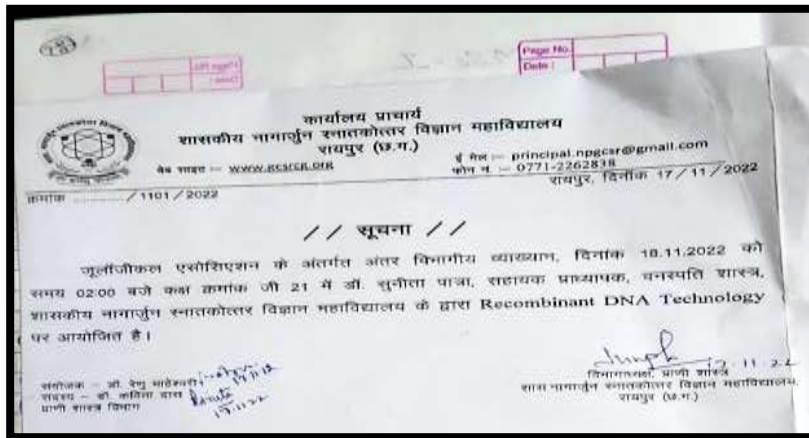
bites, contaminated surfaces, water and foods or through the air. Pathogens such as viruses, bacteria, and fungi cause these diseases. He explains how one should reduce risk of these transmitting disease-causing pathogens. He emphasises the importance of washing hands thoroughly and on a frequent basis. This program was organized with along with Youth Red Cross Society of the college.

Outcome: The students were aware about the cons of communicable diseases and its prevention.

Beneficiaries: 33



Inter-Departmental activity: 18.11.22
Guest Lecture: "Recombinant DNA Technology" by: Dr. Suneeta Patra



Context: One of the good practices of our Department is to use in house resources for different.

Aim: To know about the rDNA technology:

Activity: Dr. Suneeta Patra, Asst. Professor, Department of Botany, Govt. N.P.G. College of Science, Raipur (C.G.), gave a talk on rDNA technology. She provided specific information on the rDNA. Technology based on recombinant DNA. The approach consists of four steps: isolating the gene of interest, Insertion of a gene into a suitable vector, Transfer of foreign DNA (gene) into a suitable host organism through vector to produce recombinant DNA and detection of recombinants. There are five ways for isolating a gene of interest. They are Fragmentation by mechanical shearing, Shot gun method, Reverse transcriptase method, Hybridization method and Chemical Synthesis of gene. Recombinant DNA technology has great potential hence, it has wide applications in the field of Medical, Agriculture, Industries and in Environmental protection.

Learning outcome: To know about rDNA technology and it's important in detail.

Beneficiary: 108 (students of B.Sc. IIIrd Year)





Swacchata Abhiyan: 07.01.23

Context: To inculcate habit of Cleanliness and staying in hygienic surroundings for a healthy lifestyle, and to understand importance of "Swacch Bharat Abhiyan" to make our city and country a better place to live in.

Aim: To maintain clean surroundings for healthy survival and make this learning a lesson for life.

Activity: The Swachh Bharat Abhiyan is the most important campaign by the Government of India towards the cleanliness. Our College organized cleanliness drive under Swachhata Abhiyan program on 7th of January 2022. M.Sc. Students and staff of the Department took participation in cleanliness of the Department and its surrounding like garden. Especially during this activity all of us concerned about the harmful effect on the environment due to plastic. So all of us set our minds that we make our college plastic free area.

In the end we all took oath of keeping our home, locality and city clean.

Outcome: It was a good experience for all of us. We were curious to be a part of SWACHHATA ABHIYAN that could have transformed the face of our city.

Beneficiary:









Sustainable life Style: 11.01.23



Context: Sustainable living depicts a lifestyle in which one should be effort to reduce, reuse and recover the use of natural resources.

Aim: The aim of sustainable life style is to ensure environmental protection.

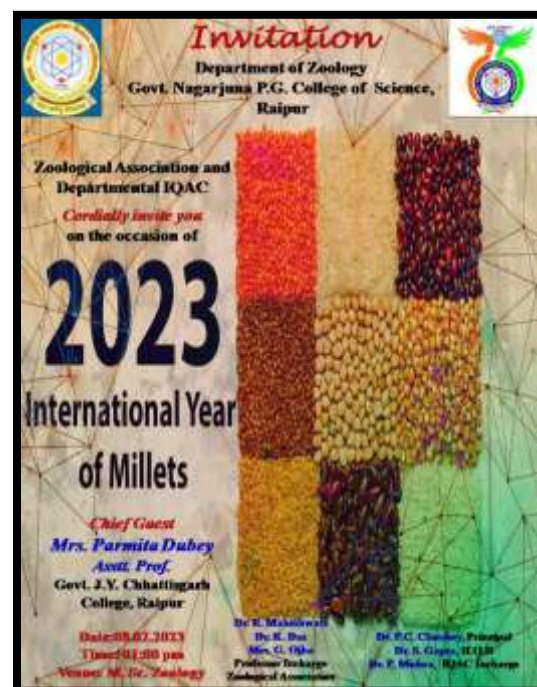
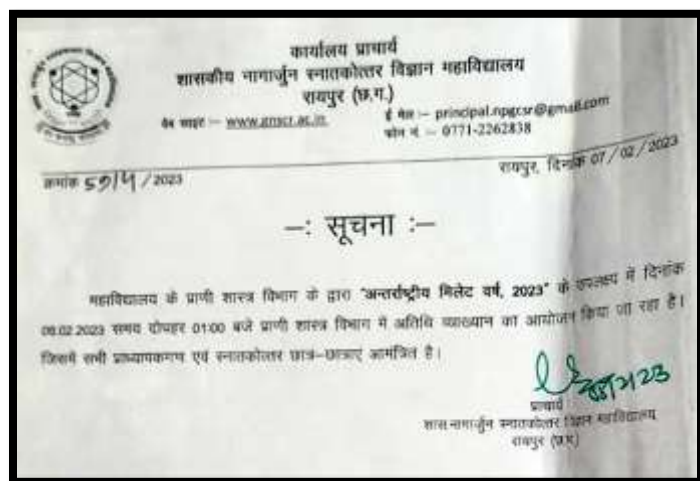
Activity: In this concern a lecture was organized on “Sustainable life Style” by **Mrs. Madhuri Modi (Social Worker), Nagpur, M.S.** She also demonstrates the reuse of plastics and how to make organic manure from dry leaves and waste fruits and vegetables. She also suggests that everyone should prepare oxygen basket in their houses and also give this basket to others as a gift to encourage them for plantation.

Outcome: Sustainable living helps in ensuring a better life for present and future generations.

Benefeciaries: 29



International Millet Year, 2023: 08.02.23
Guest Lecture on “Millets and Digestive Physiology” by Dr. Parmita Dubey



Context: To celebrate International millet year 2023.

Aim: To provide knowledge of ancestral wisdom to present generation and create curiosity to know more about nutrition dense, pesticide free cereal grain in this era of toxic chemicals.

Activity: On the occasion of International Millet Year, 2023, a lecture was given by Dr. Parmita Dubey on and “Millets and Digestive Physiology”. On her lecture she uncovered some interesting facts regarding our ancestral knowledge on nutritional and medicinal values of millets and how this can be incorporated in present food habits. She also emphasised on not only celebrating the Millet for a particular year, rather millets should be adopted in our regular meals. She also focused on how millets helps in digestive physiology and makes us healthy. Before the lecture M.Sc. students Akash Upadhyaya and Aastha Agrawal have shared their views regarding cultivation, usage, and benefits of millets. Also on this occasion students prepare different delicious “**Millets Vayanjan**” and presented along with details of their nutritive values. Our principal Dr. P. C. Choubey, Dr. Parmita Dubey, Dr. Vimal Kanungo, Dr. Dr. Suneeta Patra and other staff members enjoyed the relishing dishes such as - Chilla, Halwa and Cake of Raagi, Kangni Kheer, Khichdi of Murat & Kodo, Bajara Roti etc.

Outcome: All were benefitted with the importance and nutritive values and interesting facts about Millets. Also, they understood unique recipes and different ways to incorporate Millets in daily diet.

Beneficiaries: 33



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Activities on Biodiversity

Context: Our universe is full of 'Biological diversity' from microorganisms to higher vertebrates lived in a different ecosystem like grassland, forest, water, desert and other habitat have some sort of interaction with each other and play an important role to balanced the nature in which we live. Faunal study refers to the scientific study of animals

Aim: To know our faunal diversity.

Activity: In Indian mythology most of the animals have their importance and they play a prominent role in religious idiom. Faunal study refers to the scientific study of animals. As biodiversity is one of the best practices of our department, many activities were conducted on this heading.

1: Cultural Activity

Competition: Rangoli on Biodiversity: 10.02.2023 and Poster on Biodiversity: 15.02.2023.





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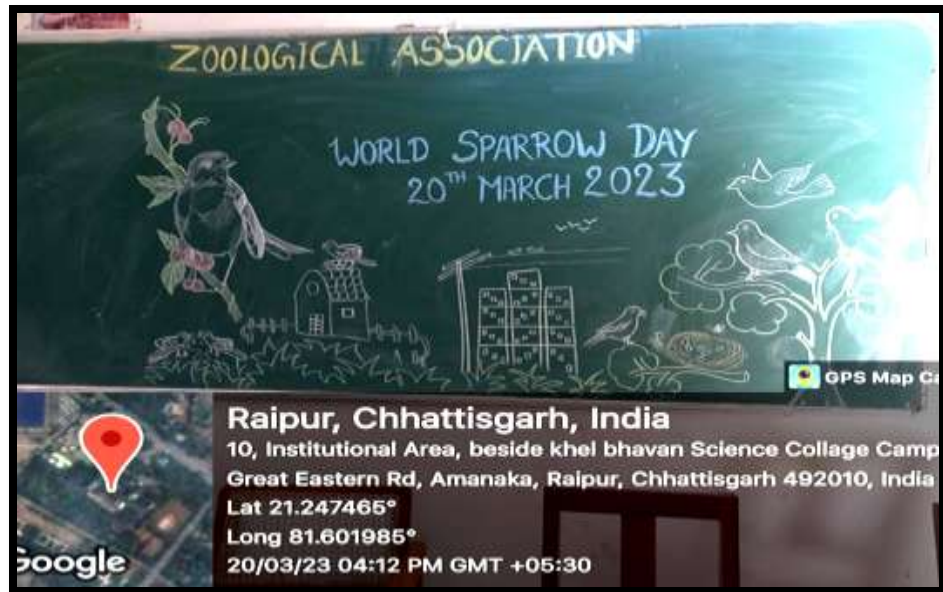
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Raipur, Chhattisgarh, India

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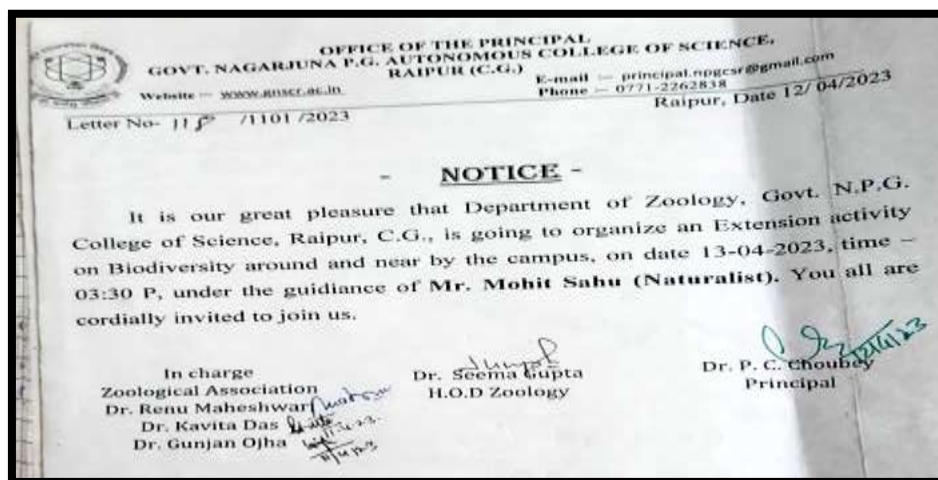
Every year on 20th March, the World Sparrow Day is observed to raise awareness of the role of the sparrow in biodiversity. In this context **“Paricharcha: I Love Sparrow”** was organized. From various angles, (conservation, ecological importance, protection etc.) faculty members and students were sharing their views on sparrow.







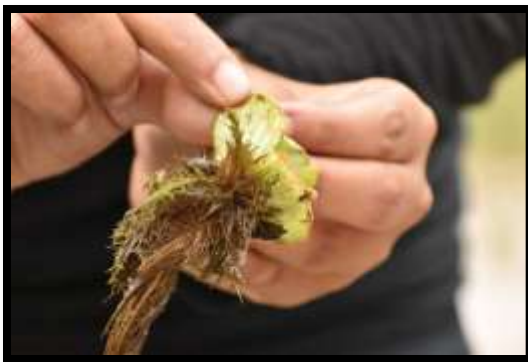
3: Walk and Talk: Campus Faunal Diversity: 13.04.23



For data collection students & staff members along with experts Mr. Mohit Sahu visit the campus at 04:00 to 06:00 pm. Photographs were clicked on seeing the animals (Invertebrates and Vertebrates) for data collection. Experts explained how the animals are identified by their sounds, color patterns, and so many other characters. Students were not only spotted various species of living creatures but also while moving they discussed with experts in details about habitats, their patterns of migration, roosting and breeding behavior etc. We also learned how to identify species of birds by listening out their unique cheeps & tweets, movement, color, markings, plumage, shape & size, beak shapes and calls. This fascinating activity to observe the faunal diversity by walk and talk is a great way to make students familiar with their surrounding ecology and also help them to learn about the different ecosystems of the nature, which is the best way to protect & conserve our birds. Staff and students from the Botany Department also took part in this event.







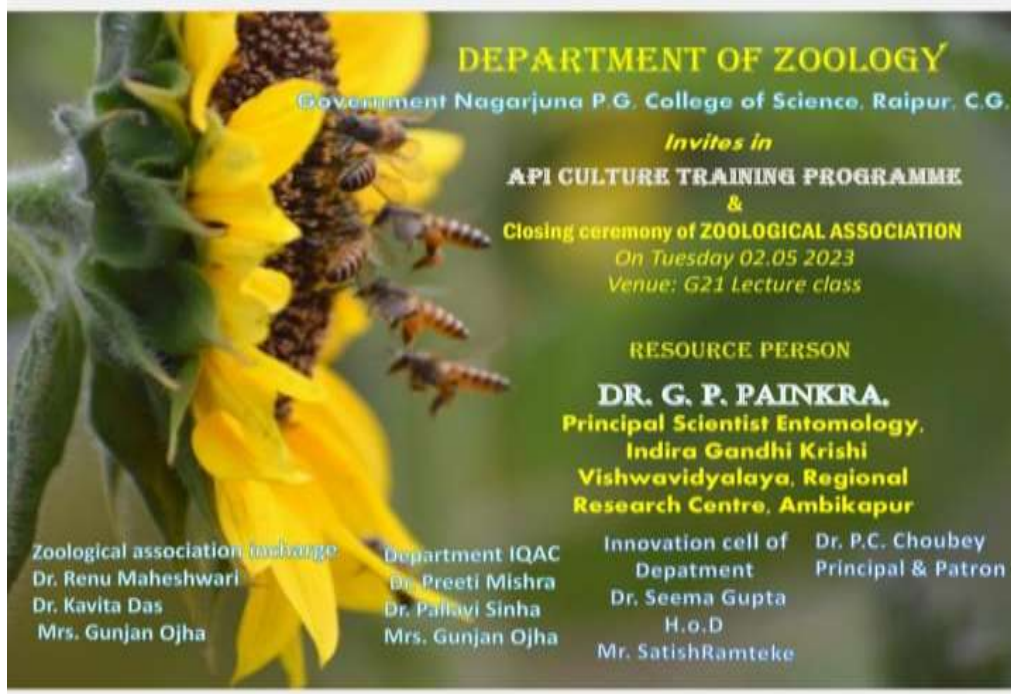


4: Clay modelling of animals: This was the task for the students as a skill development to make some models of the animals from clay.



Outcome: Every organism has a unique role in the environment. They play a vital role in the ecosystem. Many of them act as a bio-indicator, so that students were learned about the ecological role of animals. The sheer fact is that animals are the ones who have supported our planet and exhibits their significance that our lives exist because of animals.

Apiculture Training Program: 02.05. 2023
By Dr. G.P. Paikara



Context: Apiculture is an industry of propagating, rearing & managing Honey bees of economic importance. This industry provides us many valuable products like Honey, Beewax, Propolis, Pollen, Honey bee venom etc. These products are used in various industries as well health care products.

Objectives:

- Identify various species of bees, their life cycle and behavior science for better pollination
- Identify, demonstrate, maintain and handling different bee-keeping tools and equipments
- Acquire skills for selection of appropriate site, beehive installation, colony management and colony inspection
- Identify and manage diseases and insects of beehives
- Harvest and process honey and other bee hive products
- Acquire marketing skills of bee product
- Demonstrate application of hygiene and safety practices in beekeeping
- Develop interest of students towards self employment and traditional skills.

Activity: Dr. G.P. Paikara, Principal Scientist Entomologist of Indra Gandhi Krishi Vishwavidyalaya, Raipur, highlighted the species of bees in Chhattisgarh, traditional and modern method of bee keeping and harvesting of honey from the hive. He demonstrated the method of keeping bees inside man-made hives and harvesting honey from them. He told that there is a need to improve technical knowledge of the traditional beekeepers in order to facilitate the adoption of improved technologies available in this area. All the P.G. students participated with enthusiastically in the program.

Outcome: Develop entrepreneurial skills in students for self employment. The programme is intended to provide scientific knowledge and technical skills in the all aspects of **beekeeping**.

Beneficiaries: 23







Career Guidance

1. Guest Lecture by Dr. Prashant Chauhan, Online mode, 13.04.2023

2. Guest Lecture by Dr. Sanjay Thiskey, 06.06.2023

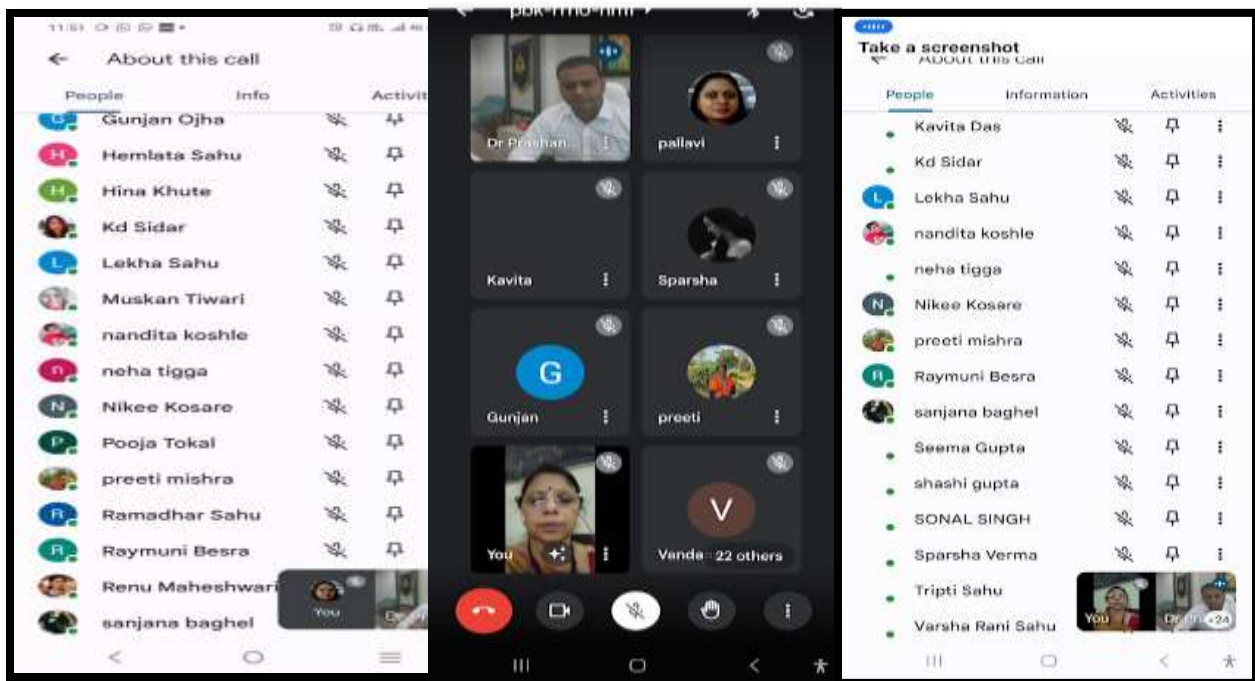


Context: Career Counseling is a process that helps students to know and understand themselves and the world of work in order to make career, educational, and life decisions. Career development is more than just deciding on a major and what job one wants to get after graduation.

Aim: The aim of career counseling session was to aware the students about different career prospect and how to decide to opt a career.

Activity1: Guest Lecture by Dr. Prashant Chauhan

A career counselling session was organized by Zoological Association for the students of M.Sc. Zoology. The session was conducted online through Google Meet. The resource person was Dr. Prashant Chauhan, IRS Joint Commissioner at Central GST Customs Mumbai Zone. He suggested varied ways to opt a suitable career in life depending upon one's capabilities and potential. He told that communication and confidence plays the most important role in any career in life. He also told us to understand the job market before choosing any career because job market keeps changing with time and new trends. Like the jobs in E-Commerce field has increased in the past two years of pandemic due to lockdown. He also suggested taking the help of social media and other job related apps for choosing the right field. Career Guidance Test can be taken online. Then he talked about how to focus on the chosen career and what are the efforts to be put in to make that dream true. Besides hard work, time management and clarity of mind are important aspects to be taken care of. He explained the students about a good career by giving example of his inspiring journey from Professor to IRS Officer. After the completion of the session, students also asked some questions. All the students were highly motivated and got the information about various opportunities after post graduation.





Activity2: Guest Lecture by Dr. Sanjay Thiskey: 06.05.2023

The resource person for this was Dr. Sanjay Thiskey, Asstt. Prof., Govt. Digvijay P.G. College, Rajnandgoan. He gave lecture on career guidance on job opportunities after M.Sc. in Zoology. He gave an elaborative introduction about the various opportunities and scope in the field of zoology. He suggested various ways and ideas on how to opt the carrier in India. He further highlighted various jobs such as-Wildlife conservationist, Animal trainer, - Wildlife educator, Zoo keeper, Zoo officer, Wildlife researcher / research associate, Associate research scientist, Wildlife photographer, Animal nutritionist and Forensic science. Apart from these he also focused on various jobs opportunities in different Companies like- Pharmaceutical (MR), Food industries, Beverage, Biotechnology, Petrol mining and forest, Cipla, Bicon. At the end of the session the students cleared their doubts by asking various questions regarding the conclusions, they usually face while deciding their carrier.

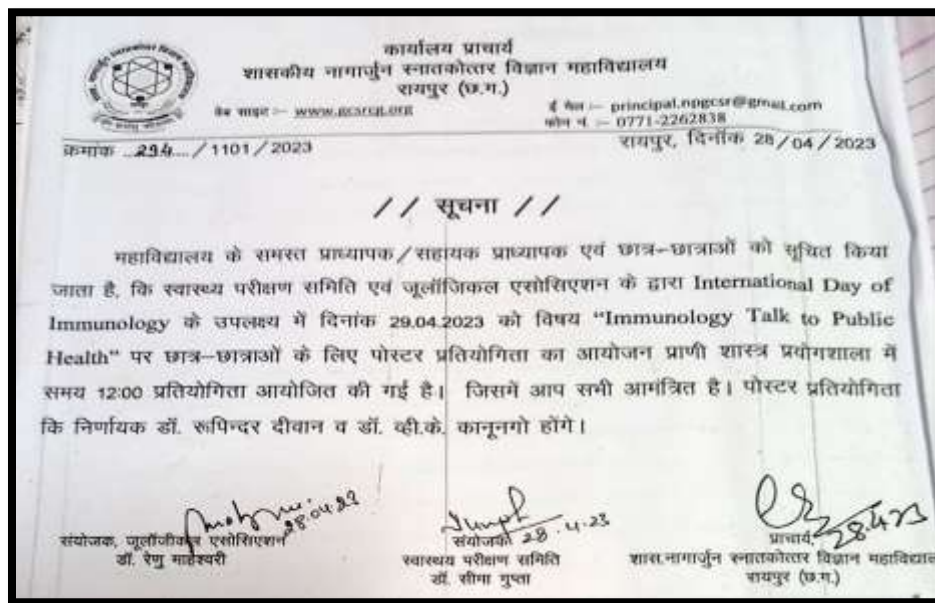
Outcome: All the students were highly motivated and enlightened about various opportunities and trends in the field of Zoology after completing their Post Graduation. Both the lectures helped the students to decide to best career options in the field of Zoology and life sciences after M.Sc.

Beneficiaries: 50





International Immunological Day: Poster competition 29.04.2023



Context: International immunological Day is celebrated on 29th April this year 2023. Theme of the celebration of this day is **Immunological talk to public health**. The celebration provides an opportunity for raising global awareness about the importance of immunology research in fighting infectious diseases, autoimmunity and cancer, which have a direct bearing on human health.

Objectives:

- International Day of Immunology is celebrated on 29th April every year.
- It aims to highlight the importance of immunology for maintaining optimal health
- A major objective of the International Day of Immunology is to create a bridge of understanding between scientists, patients and the general public.
- After facing corona pandemic it is very important to aware students about immunity.

Activity: A poster competition was organised on this occasion by Zoological association and Health Testing committee of college for UG and PG student, based on the above theme. This competition was organised in U.G. Lab of Zoology. Student make poster on above topic in given time and spot judgement for this poster competition was done by Dr. R Diwan Professor and Head Department of Botany, Dr Pimpalgaonker Retd. Professor Department of Botany and Dr. Vimal Canungo Assistant professor Department of Botany. Winners of this competition were-

First Prize: Sonal Singh, M.Sc. Zoology

Second Prize: Akash Uppadhaya M.Sc. Zoology & Sushama Markam, B.Sc. Part I

Third Prize: Karuna Thakur & Bhavana Basone, M.Sc. Zoology

Consolation Prize got by Rahul Pandey, M.Sc. Microbiology

Beneficiaries: U.G. and P.G. Students, 19



