

Report of Zoology Department (2021-22)



**Mehr Chand Mahajan
DAV College for Women
Sector-36(Chandigarh)**

www.mcmdavcw-chd.edu
0172- 2603355, 0172- 2624921

Department name: Zoology

Session: 2021-22

Names of Programmes/Courses offered:

B.Sc. (Medical) - Three Years Degree Course (Semester system)

I. FACULTY DETAILS

1. Invited talks

- Dr. Neetu was invited as Resource person by the Mayank Foundation to deliver a talk on 'Montreal protocol- Keeping us, our food and vaccines cool' organized under the patronage of Punjab State Council of Science and Technology on the occasion of World Ozone day on 16 September, 2021.
- Dr. Neetu was invited as Resource person by Institution's Innovation Council (IIC 4.0) of Mehr Chand Mahajan DAV College for Women, Chandigarh to deliver a talk on 'Role of National Education Policy (NEP)-2020 in facilitating innovation and entrepreneurship' on 11 November, 2021 to celebrate National Education Day.
- Dr. Neetu was invited as a resource person to deliver a talk on 'Accelerators/Incubators- Opportunities for Students and Faculty (Early-Stage Entrepreneurs)' organized by Institution's Innovation Council (IIC 4.0), Mehr Chand Mahajan DAV College for Women, Chandigarh on 14 June, 2022

2. Orientation Programmes/Refresher Courses/FDPs etc. attended

- Dr. Neetu completed Innovation Ambassador training (Advanced level) conducted by MoE's Innovation cell and AICTE from 30 June-30 July, 2021 in online mode.
- Ms. Kadambari Pathania participated in a National Workshop on 'Good Laboratory Practices in Biological and Chemical Sciences' jointly organized by the Biological & Chemical Waste Management Committee, Bhaskaracharya College of Applied Sciences (University of Delhi), Mehr Chand Mahajan DAV College for Women, Chandigarh and Association of Food Scientists & Technologists, Delhi Chapter under the aegis of IQAC and DBT Star College Scheme on 10 March, 2022 in online mode.
- Ms. Kadambari Pathania completed an online Two-week Interdisciplinary Refresher Course on 'Advanced Research Methodology' organized by Teaching Learning Center, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) from 22 March - 05 April, 2022 and obtained Grade A+.

- Dr. Divya Sharma participated in a National Online Workshop entitled ‘Biodiversity and Ecosystem Restoration’ jointly organized by S.R.R. Govt. Arts & Science College (A), Karimnagar, Telangana and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of Ministry of Education on 20 April, 2022.
- Dr. Neetu completed online Two-week Refresher Course in “ZOOLOGY” organized by Teaching Learning Center, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) from 25 April - 09 May, 2022 and obtained Grade A+.
- Dr. Sarabjeet Kaur completed online Two-week Refresher Course in “ZOOLOGY” organized by Teaching Learning Center, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) from 25 April - 09 May, 2022 and obtained Grade A+.
- Dr. Divya Sharma completed online Two – Week Refresher Course in “ZOOLOGY” organized by Teaching Learning Center, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) from 25 April - 09 May, 2022 and obtained Grade A.
- Ms. Kadambari Pathania completed an online one-week Faculty Development Programme on ‘Teaching-Learning Methods: From Micro-teaching to Peer Learning’ organized by Teaching Learning Center, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) from 30 April - 06 May, 2022 and obtained Grade A+.

3. Members in Editorial Boards/ University Bodies:

Dr. Neetu

- a. Nominated as Subject expert on the Board of Studies in Zoology, Khalsa College, Amritsar for a period of three years (2019-2022).
- b. Member of the Editorial Board of the Journal “New Horizons” published by Mehr Chand Mahajan DAV College for Women, Sector 36-A, Chandigarh.

II. STUDENTS' ACHIEVEMENTS

Name of the Student	Class	Roll no.	Name of the event	Organizing Agency/Committee/ Department	Name of the Award/ Position	Month/Year
Annanya Mahajan	B.Sc. III Medical	1198	Photography Contest on Angiosperms Diversity	Post Graduate Government College for Girls, Sector 42 Chandigarh	Second Position	19.08.2021
Annanya Mahajan	B.Sc. III Medical	1198	Online National Level Quiz on Awareness Generation campaigns on TB, AIDS and Blood Donation	Red Ribbon Club in Collaboration with AIDS Awareness Committee	First Position with Cash Prize of Rs. 2000	25.08.2021
Annanya Mahajan	B.Sc. III Medical	1198	Online Quiz to celebrate Nutrition Week 2021	Department of Food Science, Mehr Chand Mahajan DAV College for Women, Chandigarh and Phoenix Science Club VP-PY001 Puducherry (Affiliated with Vigyan Prasar, Govt. of India)	First Position with cash prize of Rs. 2000	09.09.2021
Annanya Mahajan	B.Sc. III Medical	1198	Best Out of Waste Competition	Character Building Committee, Mehr Chand Mahajan DAV College for Women, Chandigarh	Second Position	29.09.2021
Annanya Mahajan	B.Sc. III Medical	1198	Slogan Writing Competition	The Nature and Environment Society of Zakir Hussain College - University of Delhi	First Position	01.10.2021
Kareena Pahuja	B.Sc. II Medical	169	Wildlife Week Quiz	Department of Zoology, Mehr Chand Mahajan DAV College for Women, Chandigarh	First Position	08.10.2021
Bharti Sharma	B.Sc. II Medical	239	Wildlife Week Quiz	Department of Zoology, Mehr Chand Mahajan DAV College for Women, Chandigarh	First Position	08.10.2021
Ankita Saini	B.Sc. II Medical	270	Card making	Character Building Committee, Mehr Chand Mahajan DAV College for Women, Chandigarh	First Position	26.10.2021
Annanya Mahajan	B.Sc. III Medical	1198	Diya Decoration Competition - Deepmala Utsav	Character Building Committee, Mehr Chand Mahajan DAV College for Women, Chandigarh	First Position	26.10.2021

Jasleen Kaur	B.Sc. I Medical	620	Poster making competition on the theme 'There is no tomorrow without a girl'	Rayat- Bahra University	Fourth Position	25.01.2022
Annanya Mahajan	B.Sc. III Medical	1198	National Level Promotion of recycling of Old clothes	Swachhta Committee of Arts in collaboration with PG Department of Sociology of Mehr Chand Mahajan DAV College for Women, Chandigarh	First Position with Prize Money of Rs 2000	01.03.2022-07.03.2022
Annanya Mahajan	B.Sc. III Medical	1198	Nari Shakti Samman	Mehr Chand Mahajan DAV College for Women, Chandigarh	Appreciation Certificate, Prize and Scholarship of Rs 5000 for the meritorious services in the past years	08.03.2022
Arkita Dwivedi	B.Sc. II Medical	245	Inter-college flower arrangement competition	Department of Botany and Add on course in Floriculture and Landscaping, Mehr Chand Mahajan DAV College for Women, Chandigarh	First Position	31.03.2022
Vidushi	B.Sc. II Medical	139	Inter-college flower arrangement competition	Department of Botany and Add on course in Floriculture and Landscaping, Mehr Chand Mahajan DAV College for Women, Chandigarh	Second Position	31.03.2022
Sonali Malik	B.Sc. I Medical	669	D-10 Women 2000-meter National Dragon Boat Racing Championship	Indian Kayaking and Canoeing Association	First Position	21.05.2022

III. ACTIVITIES ORGANIZED BY THE DEPARTMENT

Title of the Activity	Date	Objective	No. of participants	Name/Designation/ Organization of Resource Person/s
Webinar on 'Conservation Status of Tigers in India' on the occasion of International Tiger Day	29.07.2021	To spread awareness about tiger conservation and to motivate students to pursue wildlife conservation as a career option	42	Mr. Jayanta Bora, SRF, Wildlife Institute of India, Dehradun

Online session on 'Introduction to Birding'	05.08.2021	To introduce birding as a hobby and to help students observe and identify birds in the college campus	50	Ms. Kadambari Pathania, Assistant Professor in Zoology, Mehr Chand Mahajan DAV College for Women, Chandigarh
Power point Presentation on the theme 'Use of biodiesel versus diesel'	10.08.2021	To spread awareness about the practice of using biodiesel	59	-
Popular Akshay Urja Lecture	20.08.2021	To spread awareness about the use of solar energy technologies and the renewable energy targets set by the government for the year 2022	73	Dr. Vikrant Sharma, Deputy Director (Technical) and Head, Skill Development Division, National Institute of Solar Energy (NISE), Gurugram
Online Inter-College Poetry writing competition	20.08.2021	To increase awareness about the 'Impact of Akshay Urja in India'	20	-
Online Essay writing competition on the theme 'Montreal Protocol- Keeping us, our food and vaccines cool'	16.09.2021	To celebrate International Day for the Preservation of the Ozone Layer	20	-
Quiz Competition on 'Wildlife and Its Conservation'	02.10-2021 08.10.2021	To celebrate Wildlife Week by enhancing knowledge of the students about wildlife and biodiversity	54	-
Online competition on 'Making bird feeders with unused material at home'	02.10-2021 08.10.2021	To encourage students to utilize unused material at their homes and to help them get familiar with birds	20	-
Awareness video on the theme 'Save Water Bodies'	26.11.2021	To motivate students to spread awareness about water conservation among their family and friends	45	-

Awareness quiz on Noise Pollution	30.11.2021	To understand harmful effects of noise pollution on humans, animals and the environment	53	-
Online debate on the theme 'Can Alternative Energy Resources Replace Fossil Fuels?'	04.01.2022	To understand the importance of energy conservation. and to identify specific methods that can help in energy conservation efforts	46	-
Online Puppet show on 'Solid Waste Management'	14.01.2022	To understand the problems caused by solid waste and to propose solutions for its management	50	-
Documentary screening on World Wetlands Day on the theme 'Wetlands Action for People and Nature'	02.02.2022	To spread awareness about wetlands and their conservation	25	-
Industrial cum field visit to Global Apiaries India, Dera Bassi	22.02.2022	To provide an opportunity to the students to develop an understanding of honey bees and apiary operations. and to motivate the students to work on new ideas for creating start-ups and entrepreneurial ventures	29	Sh. Madan Sharma, Director, Global Apiaries. Dera Bassi, India
Online declamation contest on the theme- 'Is animal testing justified?' as a part of Science Week Celebrations	26.02.2022	To provide a platform to students to understand the pros and cons of animal testing	30	-
Screening of video message on water conservation to celebrate 'World Water Day'	22.03.2022	To spread awareness about water conservation	53	-
Campus bird count and insect count to celebrate the International Day for Biological Diversity	22.05.2022	To increase awareness about the importance of biodiversity and to familiarize the students with the fauna present in the college campus	41	-

एमसीएम ने अंतरराष्ट्रीय बाघ दिवस मनाया

हरियाणा मेल ब्यूरो » चंडीगढ़

मेहर चंद महाजन डीएवी कॉलेज फॉर विमैन, के जीव विज्ञान- विभाग ने एमसीएम इको क्लब के सहयोग से %भारत में बाघों की संरक्षण स्थिति% शीर्षक से एक वेबिनार के साथ अंतरराष्ट्रीय बाघ दिवस के उत्सव को चिह्नित किया। वेबिनार का उद्देश्य छात्रों को भारत में बाघ संरक्षण के इतिहास के बारे में बताना और बाघ संरक्षण की आवश्यकता के बारे में जागरूकता फैलाना था।

भारतीय वन्यजीव संस्थान, देहरादून के सीनियर रिसर्च फेलो श्री जयंत बोरा इस वेबिनार में प्रमुख वक्ता के रूप में शामिल हुए। वेबिनार ने 42 से अधिक प्रतिभागियों को भारत में बाघ संरक्षण के इतिहास के बारे में शिक्षित किया और किस प्रकार कैमरा ट्रैपिंग, पग



मार्क, स्कैट और हड्डि पैटर्न विश्लेषण, जेनेटिक बारकोडिंग जैसी अत्याधुनिक तकनीकें भारत के राष्ट्रीय पशु के संरक्षण में योगदान करती हैं इस पर भी विस्तार से चर्चा की। बाघ संरक्षण

के महत्व पर जोर देते हुए, श्री बोरा ने कहा कि बाघों की आबादी में गिरावट से शाकाहारी जीवों की संख्या में वृद्धि होगी जो पूरे पारिस्थितिकी तंत्र के पतन का अग्रदूत हो सकता है। विशेषज्ञ ने

संरक्षण पारिस्थितिकी में अपना करियर चुनकर छात्रों को वन्यजीव संरक्षण में योगदान देने के लिए प्रेरित किया। सत्र का समापन भारतीय वन्यजीव संस्थान, देहरादून में परियोजना सहयोगी सुश्री शगुन टाकुर ने छात्रों को करियर सलाह देने और उन्हें वन्यजीव संरक्षण को करियर विकल्प के रूप में अपनाने के लिए प्रेरित करने के साथ किया।

प्रधानाचार्या डॉ. निशा भार्गव ने हमारे देश के राष्ट्रीय पशु के संरक्षण के महत्वपूर्ण पहलु के बारे में जागरूकता बढ़ाने के लिए जीव विज्ञान विभाग के प्रयासों की सराहना की। उन्होंने कहा कि चूंकि बाघ पारिस्थितिकी तंत्र के संतुलन को बनाए रखने में महत्वपूर्ण भूमिका निभाते हैं, इसलिए बाघों की विगड़ती स्थिति और उनके संरक्षण की आवश्यकता के बारे में सभी को जागरूक करना बेहद जरूरी है।

MCM celebrates Akshay Urja Diwas



Sharma pointed out the importance of the need of skilled manpower. Employment generation, eco-friendly energy generation, sustainability of other energy resources for a longer period of time, are some of the significant advantages elucidated by Dr. Vikrant Sharma in the lecture. He motivated the students to take up experiments and projects to get familiar with the use of solar energy and encouraged the college to extend the ongoing projects on renewable energy usage in the college. An online inter-college poetry writing competition sponsored by CREST was also organized on the theme 'Impact of Akshay Urja in India'. Principal Dr. Nisha Bhargava lauded this initiative to spread awareness about the importance of renewable energy resources for a sustainable future. She added that conscious of its responsibility towards the environment, MCM has been a frontrunner institution in adopting the use of renewable energy like harnessing of solar energy and production of biogas from mess food waste.

CHANDIGARH, AUG 23

Mehr Chand Mahajan DAV College for Women, Chandigarh celebrated Akshay Urja Diwas by organizing an online Popular Akshay Urja Lecture sponsored by Chandigarh Renewable Energy and Science and Technology Promotion Society (CREST). Dr. Vikrant Sharma, Deputy Director (Technical) and Head, Skill Development Division, National Institute of Solar Energy, Gurugram was the resource person for the lecture. Dr. Vikrant gave an overview on the use of solar energy technologies and the renewable energy targets set by the government for the year 2022. Dr.

एमसीएम ने ग्लोबल एपियरीज का औद्योगिक दौरा किया



मेहर चंद महाजन डीएवी कॉलेज फॉर वूमैन, चंडीगढ़ में जूलॉजी विभाग ने इंस्टीट्यूशन इनोवेशन काउंसिल और एमसीएम विज्ञान मंच के तत्वाधान में डेरा बस्सी स्थित ग्लोबल एपियरीज इंडिया, का औद्योगिक फील्ड दौरा करते हुए।

चंडीगढ़, 10 मार्च (राम सिंह बराड़): मेहर चंद महाजन डीएवी कॉलेज फॉर वूमैन, चंडीगढ़ में जूलॉजी विभाग ने इंस्टीट्यूशन इनोवेशन काउंसिल और एमसीएम विज्ञान मंच के तत्वाधान में डेरा बस्सी स्थित ग्लोबल एपियरीज इंडिया, का औद्योगिक फील्ड दौरा आयोजित किया। इसके दौरान, ग्लोबल एपियरीज इंडिया के प्रोपराइटर मदन शर्मा ने छात्रों के साथ अपनी उद्यमशीलता के सफर की कहानी सांझा की और उन्हें स्टार्टअप के लिए प्रेरित किया। मधुमक्खी पालन को सफल, सुलभ और सरती तकनीक के रूप में

संदर्भित करते हुए शर्मा ने कहा कि मधुमक्खी पालन न केवल शहद और विभिन्न प्रकार के उत्पादों का स्रोत है, बल्कि यह बेहतर परागण और बीज सेटिंग के कारण फसलों की उत्पादकता को भी बढ़ाता है और भारत में मधुमक्खी पालन के विस्तार की व्यापक संभावनाएं हैं। उन्होंने यह भी बताया कि कई लघु उद्योग मधुमक्खियों एवं मधुमक्खी उत्पादों पर निर्भर हैं। विश्व पर विस्तार से बात करते हुए उन्होंने आगे बताया कि मधुमक्खी पालन को सफलता मधुमक्खियों के जीव विज्ञान और

व्यवहार एवं उनकी वैज्ञानिक प्रबंधन तकनीकों को उचित समझ पर निर्भर करती है। शर्मा ने छात्रों को अपनी वैज्ञानिक समझ के प्रयोग और उत्पादों की गुणवत्ता और मात्रा में सुधार के लिए जैव प्रौद्योगिकी हस्तक्षेप की क्षमता का पता लगाने के लिए प्रेरित किया। प्रिंसिपल डॉ. निशा भार्गव ने छात्रों को उद्योग में व्यावहारिक ज्ञान और अंतर्दृष्टि से लैस करने के लिए जूलॉजी विभाग के प्रयासों की सराहना की। उन्होंने अग्रा व्यक्त को कि यह दौरा छात्रों में उद्यमिता को करियर विकल्प के रूप में अपनाने के लिए प्रेरित करेगा।

MCM celebrates International Day for Biological Diversity

The Aman Sandesh Times Network

Chandigarh : To mark the celebration of International Day for Biological Diversity, the Department of Zoology at Mehr Chand Mahajan DAV College for Women, Chandigarh, in collaboration with Swachhhta Committee (Sciences) and MCM Eco Club- Parivesh organised two activities namely, Campus Bird Count and Campus Insect Count. The activities aimed to increase students' understanding and awareness of biodiversity issues and to make them aware about the fauna present in the college. During these activities that spanned four days, students explored the college campus for several bird



MEHR CHAND MAHAJAN DAV COLLEGE FOR WOMEN, CHANDIGARH
CELEBRATION OF INTERNATIONAL DAY FOR BIOLOGICAL DIVERSITY



Dr. Nisha Bhargava
Principal



and insect species, and identified 25 different genera of birds and insects present in the college premises. The students used resources like iNaturalist app, eBird, college faunal lists for identifying the birds and insects. The participants got familiar with the avian and arthropodal

fauna in the college and learned how to observe the animals in different habitats.

Principal Dr. Nisha Bhargava lauded this praiseworthy initiative to create awareness about biodiversity, which is essential for

maintaining the balance among all the living organisms on Earth. She highlighted the importance of such awareness initiatives by adding that biodiversity plays a significant role in regulating the Earth's climate and providing shelter for all the species of plants and animals.

Noon hoot reveals rare owl's perch at MCM DAV college campus

Vikramjit Singh | TNN

Chandigarh: Owls seldom like to advertise their presence with a hoot at noon fearing mobbing and heckling by anxious myna, babbler, crow, bulbul and squirrel parents. But this rare owl let out just a handful of its soft, musical hoots in broad daylight and it was discovered in the heart of MCM DAV College for Women campus in Sector 36A.

The discovery of a lone Brown Hawk owl, also known quaintly as the Brown boobook, was realised as part of the college's annual biodiversity audit conducted during lockdown.



A Brown boobook and (R) an Indian Scops owl at MCM DAV campus

past, felicitated guests of honour as illustrious as late Field Marshal Sam Manekshaw and legendary cricketer Kapil Dev, related the principal and the Zoology department. Requests came pouring in from Tricity birders and enthusiasts who wanted to have a look or photograph the elusive owl.

The college has a densely-foliated nallah running at its rear, which bears a rich biodiversity that spills over into the campus. Some cobras also venture in, which sends a shiver down the faculty's spines! Apart from this lone, rare owl, the Zoology department's team of Dr. Neetu, Dr. Divya Sharma, Dr. Sarabjit and Kadambari Pathania have recorded 33 avian species on the campus, including the Indian Scops owl,

Indian Paradise flycatcher, White-throated kingfisher and the Crimson sunbird. Principal Nisha Bhargava, a Nature enthusiast, encouraged the Zoology faculty to initiate the audit in right earnest and provided the team with a camera. Bhargava herself compiled a booklet of her Nature photography on the campus, including photo-documentation of a growing family of Indian Grey hornbills (Chandigarh's State Bird).

The rare boobook ventured into the campus and took refuge in a bamboo clump next to the lawn because the area was undisturbed due to a lockdown-enforced absence of students. Online classes provided the faculty some extra time, which was fruitfully used for a

biodiversity scan. Searching for owls requires considerable craning of the necks to scan the foliage maze above as these creatures effect camouflage by keeping perfectly still, largely silent during the day and merging with the colour and shapes of foliage. Had it not been for a couple of hoots in broad daylight while the team members were wandering on the campus looking for birds to count, they may never have realised its secretive presence right under their noses.

This owl species is a rarity for Chandigarh as its density of occurrence increases only well east of the city extending through the Terai foothills to the North-east and then to South-east Asian countries. They were first discovered in Chandigarh at Punjab University's Dr. P.N. Mehra Botanical Gardens in 2014. Since then, photographic records of a few specimens have come in from Shanti Kunj, Leisure Valley, Nagar Van, and a recording only of its nocturnal hoots from GCG, Sector 11. It is commonly known as a hawk owl because it lacks the typical facial disc of owls, has a barred tail, a hawk-like profile with slim body and long tail and narrow head. The owl's flight of rapid wing beats and glides and then sweeping upwards swiftly to alight on a branch is so typically hawk like.

The Zoology faculty's concern is that when the campus seems with student life once again when colleges reopen, would the star guest prefer to stick to its perch on the campus

despite the attendant chatter and exuberance or depart leaving glorious memories, photos, and a few discarded feathers in its wake? But what the audit has shown is that it is fruitful to look up the proverbial backyards of institutions, parks and bungalows for avian and other delights. Chandigarh, with its rich array of mature trees and geographical location, harbours an awesome, untapped potential for biodiversity discoveries.

At IISER, Mohali, its Behavioral Ecology Lab, under the tutelage of Dr. Manjari Jain, has over the years, listed 130 resident, passage/migratory bird species on campus and as many as a 100 moth species during the course of the proverbial backyard mothing.

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The star feathered guest on campus, which has, in decades