

**Report  
of  
Department of Chemistry  
(2023-24)**



**Mehr Chand Mahajan  
DAV College for Women  
Sector-36/A, Chandigarh**

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## **Names of Program/Courses/ offered**

- B.Sc. (Medical)
- B.Sc. (Non-Medical)
- B.Sc. (Microbial Food Technology)
- M.Sc. (Chemistry)

## **Faculty Publications /Awards/Achievements/Activities**

### **Faculty Publications**

- **Dr. Aanchal Batra**, Evaluation of Phenyldiazenyl as a Protective/Activating Group in Lithiation–Substitution Reactions of Tetrahydroisoquinolines, Synlett, Peer Reviewed, December 2023.
- **Dr. Madhuri T. Patil**, Imidazo[2,1-b]thiazole based indoleamine-2,3-dioxygenase 1 (IDO1) inhibitor: Structure based design, synthesis, bio-evaluation and docking studies, Peer Reviewed, Bioorganic & Medicinal Chemistry Letters, November/2023
- **Dr Madhuri T. Patil**, Imidazo[1,2-a]pyrimidine as a New Antileishmanial Pharmacophore against Leishmania amazonensis Promastigotes and Amastigotes, ACS Omega, Peer Reviewed, October/2023
- **Dr. Rishu**, Comparative DNA binding ability and phosphatase-like activity of mono and dinuclear Ni (II) complexes: a structure-activity correlation, J. Chem. Sci, November/2023, Peer Reviewed.
- **Dr. Manjot Kaur**, Evaluation of Phenyldiazenyl as a Protective/Activating Group in Lithiation–Substitution Reactions of Tetrahydroisoquinolines, Synlett, Peer Reviewed, December 2023.

### **Departmental Activities**

- A seminar on **Laboratory Safety and Green Initiatives** by **Dr. S.C. Sahoo**, Assistant Professor, Panjab University Chandigarh on 3<sup>rd</sup> Feb 2024.
- **Co-ordinators:** Dr. Qudrat and Dr. Madhuri.
- Intercollege Science Fiesta-2024 as a part of National Science Day Celebration on 28<sup>th</sup> Feb 2024.
- **Inter-college Scientific Rangoli Making Competition on the theme “Science for Sustainable future” as part of National Science Day Celebration** on 28<sup>th</sup> Feb 2024.  
**Co-ordinators:** Dr. Qudrat and Dr. Madhuri

- A lecture on **Green Hydrogen for Sustainable Industrial Development** by Dr. Tarak Mondal, Assistant Prof. IIT Ropar on 29<sup>th</sup> Feb 2024. **Co-ordinators:** Dr. Qudrat and Dr. Madhuri.
- An expert talk on **Innovation in Recent Synthetic Organic Chemistry** by Dr. Prabal Banerjee Associate Prof. IIT Ropar on 29<sup>th</sup> Feb 2024. **Co-ordinators:** Dr. Qudrat and Dr. Madhuri.
- **Inter-college Workshop on Spectroscopic techniques and a Special lecture on Celebrating Science and Womanhood: Developing smart materials for bio inspired and catalytic applications** by Dr. Gurpreet Kaur, Assistant Prof., PU Chandigarh on 14<sup>th</sup> March 2024. **Co-ordinators:** Dr. Rishu, Dr. Aanchal and Dr. Nisha Dawra

## Activities of Faculties

### Dr. Shefali Dhiman

- Attended a one-week refresher course on Research Method and Research Design from 30<sup>th</sup> to 6<sup>th</sup> December 2023, organised by Teaching Learning Centre, Ramanujan College, University of Delhi.
- Organized all listed activities of department

### Dr. Sagarika Dev

- Organized all listed activities of department

### Dr. Qudrat Hundal

- Organized a seminar on **Laboratory Safety and Green Initiatives** by **Dr. S.C. Sahoo**, Assistant Professor, Panjab University Chandigarh on 3<sup>rd</sup> Feb 2024.
- Organised an Inter-college **Scientific Rangoli Making Competition on the theme “Science for Sustainable future” as part of National Science Day Celebration** on 28<sup>th</sup> Feb 2024.
- Coordinator Inter-college Science Fiesta-2024 as a part of National Science Day Celebration on 28<sup>th</sup> Feb 2024.
- **Organised** a lecture on **Green Hydrogen for Sustainable Industrial Development** by Dr. Tarak Mondal, Assistant Prof. IIT Ropar on 29<sup>th</sup> Feb 2024.
- **Organised** an expert talk on **Innovation in Recent Synthetic Organic Chemistry** by Dr. Prabal Banerjee, Associate Prof. IIT Ropar on 29<sup>th</sup> Feb 2024.

### **Dr. Madhuri Tanaji Patil**

- Organized a seminar on **Laboratory Safety and Green Initiatives** by **Dr. S.C. Sahoo**, Assistant Professor, Panjab University Chandigarh on 3<sup>rd</sup> Feb 2024.
- Organised an **Inter-college Scientific Rangoli Making Competition on the theme “Science for Sustainable future”** as part of **National Science Day Celebration** on 28<sup>th</sup> Feb 2024.
- Coordinator Inter-college Science Fiesta-2024 as a part of National Science Day Celebration on 28<sup>th</sup> Feb 2024.
- Organised a lecture on **Green Hydrogen for Sustainable Industrial Development** by Dr. Tarak Mondal, Assistant Prof. IIT Ropar on 29<sup>th</sup> Feb 2024.
- Organised an expert talk on **Innovation in Recent Synthetic Organic Chemistry** by Dr. Prabal Banerjee, Associate Prof. IIT Ropar on 29<sup>th</sup> Feb 2024.

### **Dr. Rishu**

- Attended 10 Days FDP on NEP 2020 Orientation & Sensitization Programme organised by Sri Guru Tegh Bahadur Khalsa College, University of Delhi on 20<sup>th</sup> to 29<sup>th</sup> February 2024.
- Coordinator Inter-college Science Fiesta-2024 as a part of National Science Day Celebration on 28<sup>th</sup> Feb 2024.
- Organized an **Inter-college Workshop on Spectroscopic techniques and a Special lecture on Celebrating Science and Womanhood: Developing smart materials for bio inspired and catalytic applications** by Dr. Gurpreet Kaur, Assistant Prof., PU Chandigarh on 14<sup>th</sup> March 2024.

### **Dr. Aanchal Batra**

- Lecture on ‘Lean Start-up and minimum viable product/business to mark World Entrepreneur Day on 25<sup>th</sup> August, 2023.
- Invited as Resource Person by the NSS units of Mehr Chand Mahajan DAV College for Women, Sec 36-A, Chandigarh in collaboration with Sustainable Practices Committee of college to deliver a talk on “Reading Food Labels” held on 14<sup>th</sup> September, 2023.
- Attended a two-week Interdisciplinary Refresher Course organized by TLC, Ramanujan College, University of Delhi in collaboration Kongunadu Arts and Science College Coimbatore on 15<sup>th</sup> to 29<sup>th</sup> December 2023.

- Coordinator of the event ‘Entrepreneurial Exchange: Igniting Innovation among young minds’ to celebrate National Youth Day in collaboration with IIC 6.0 and NSS on 13<sup>th</sup> January, 2024.
- Coordinated Anti-anemia Awareness Week in collaboration with NSS from 12<sup>th</sup> to 17<sup>th</sup> February, 2024.
- Coordinator Intercollege Science Fiesta-2024 as a part of National Science Day Celebration on 28<sup>th</sup> Feb 2024.
- Organized an **Inter-college Workshop on Spectroscopic techniques and a Special lecture on Celebrating Science and Womanhood: Developing smart materials for bio inspired and catalytic applications** by Dr. Gurpreet Kaur, Assistant Prof., PU Chandigarh on 14<sup>th</sup> March 2024.
- Attended a 10 days online program on NEP 2020 Orientation & Sensitization Programme from 20<sup>th</sup> to 30<sup>th</sup> May, 2024 organized by UGC-Malaviya Mission Teacher Training Centre, (MMTTC), Panjab University, Chandigarh.

### **Dr. Nisha Dawra**

- Attended a two-week Interdisciplinary Refresher Course organized by TLC, Ramanujan College, University of Delhi in collaboration Kongunadu Arts and Science College Coimbatore on 15<sup>th</sup> to 29<sup>th</sup> December 2023.
- Coordinator Inter-college Science Fiesta-2024 as a part of National Science Day Celebration on 28<sup>th</sup> Feb 2024.
- Organized an **Inter-college Workshop on Spectroscopic techniques and a Special lecture on Celebrating Science and Womanhood: Developing smart materials for bio inspired and catalytic applications** by Dr. Gurpreet Kaur, Assistant Prof., PU Chandigarh on 14<sup>th</sup> March 2024.

### **Dr Archana**

- Coordinator Inter-college Science Fiesta-2024 as a part of National Science Day Celebration on 28<sup>th</sup> Feb 2024
- Delivered talk on Spectroscopic Techniques in an **Inter-college Workshop on Spectroscopic techniques and a Special lecture on Celebrating Science and Womanhood: Developing smart materials for bio inspired and catalytic applications** by Dr. Gurpreet Kaur, Assistant Prof., PU Chandigarh on 14<sup>th</sup> March 2024

### **Dr. Shilpa Dogra**

- Coordinator Inter-college Science Fiesta-2024 as a part of National Science Day Celebration on 28<sup>th</sup> Feb 2024
- Organized **an Inter-college Workshop on Spectroscopic techniques and a Special lecture on Celebrating Science and Womanhood: Developing smart materials for bio inspired and catalytic applications** by Dr. Gurpreet Kaur, Assistant Prof., PU Chandigarh on 14<sup>th</sup> March 2024

### **Dr. Manjot Kaur**

- Coordinator Inter-college Science Fiesta-2024 as a part of National Science Day Celebration on 28<sup>th</sup> Feb 2024
- Delivered talk on Spectroscopic Techniques in **an Inter-college Workshop on Spectroscopic techniques and a Special lecture on Celebrating Science and Womanhood: Developing smart materials for bio inspired and catalytic applications** by Dr. Gurpreet Kaur, Assistant Prof., PU Chandigarh on 14<sup>th</sup> March 2024

### **Dr. Swatika Sharma**

- Coordinator Inter-college Science Fiesta-2024 as a part of National Science Day Celebration on 28<sup>th</sup> Feb 2024
- Delivered talk on Spectroscopic Techniques in **an Inter-college Workshop on Spectroscopic techniques and a Special lecture on Celebrating Science and Womanhood: Developing smart materials for bio inspired and catalytic applications** by Dr. Gurpreet Kaur, Assistant Prof., PU Chandigarh on 14<sup>th</sup> March 2024

### **Dr. Yeshbinder Kaur**

- Coordinator Inter-college Science Fiesta-2024 as a part of National Science Day Celebration on 28<sup>th</sup> Feb 2024
- Delivered talk on Spectroscopic Techniques in **an Inter-college Workshop on Spectroscopic techniques and a Special lecture on Celebrating Science and Womanhood: Developing smart materials for bio inspired and catalytic applications** by Dr. Gurpreet Kaur, Assistant Prof., PU Chandigarh on 14<sup>th</sup> March 2024.

## Students Publications /Awards/Achievements/Activities:

### Student Research Activities:

S.No	Name and Class	Title of the paper presented/ published	Title of the conference / seminar / journal / book	Month/ Year	ISSN/ ISBN	National/ International
1	Shivangi Jain	Technology-mediated Learning during Pandemic Challenges vs Outcomes	Challenges in conducting practical courses during Covid-19	2024	978-1-003-49171-2	International
2	Parul	Technology-mediated Learning during Pandemic Challenges vs Outcomes	Challenges in conducting practical courses during Covid-19	2024	978-1-003-49171-2	International

### List of workshops attended by Students

S.No.	Name of the student	Name of the Resource Person and institution	Topic of workshop
1	Divya	INST	Nano for Sensor and Agriculture Waste Repurposing
2	Ananaya Tangri	Dr. Kashmir Singh and DST Centre for Policy Research, Panjab University	Patent Search and Patent Mining
3	Shivika Sharma	INST	Nano for Sensor and Agriculture Waste Repurposing
4	Priyanshi Singh	INST	Nano for Sensor and Agriculture Waste Repurposing
5	Shabana Malik	INST	Nano for Sensor and Agriculture Waste Repurposing

6	Anjali Sharma	INST	Nano for Sensor and Agriculture Waste Repurposing
7	Rashi	INST	Nano for Sensor and Agriculture Waste Repurposing
8	Mehak	INST	Nano for Sensor and Agriculture Waste Repurposing
9	Bhavneet	INST	Nano for Sensor and Agriculture Waste Repurposing
10	Nidhi	INST	Nano for Sensor and Agriculture Waste Repurposing
11	Pushpinder Kaur	INST	Nano for Sensor and Agriculture Waste Repurposing
12	Nidhi	INST	Nano for Sensor and Agriculture Waste Repurposing

#### Participation of students in Inter-college Competitions

S. No	Name of the students	Event	Institute	Position
1.	Srishti	Philosophical society	Post Graduate government College for Girls, Sec-11, Chandigarh.	Second