

Report of PG Department of Chemistry (2022-23)



**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**, Co-authored a book “Processed Food-Implications for Human Health and Sustainable Development”.
- **Dr Shweta Sareen**, Journal of polymer materials, Synthesis of micro mesoporous materials by pseudomorphic transformations, 2022, Scopus, International, Peer Reviewed.
- **Dr Shweta Sareen**, Topics in Catalysis , Coral Reef Shaped Mesoporous Silica Obtained from Coal Fly Ash with High Adsorption Capacity, 2022, Scopus, International, Peer Reviewed.
- **Dr Rohini Kanwar**, Colloids and Surfaces A: Physicochemical and Engineering Aspects, Development of Phosphatidylcholine/Tween 80 based biocompatible clove oil-in-water nanoemulsion as a green nanocarrier for controlled herbicide delivery, 2022, Scopus, International, Peer Reviewed.
- **Dr Rohini Kanwar**, Journal of Dispersion Science and Technology, Preparation of α -Tocopherol based nanoemulsion for efficacious delivery of Methotrexate, 2022, Scopus, International, Peer Reviewed.
- **Dr Archana**, Chemistry Select, Polyacrylonitrile cross-linked with diethylenetriamine and its use for the removal of lead ions from aquatic system. 2022, Scopus, International, Peer Reviewed.
- **Dr Archana**, Molecules, A review on Polyacrylonitrile as an effective and economic constituent of adsorbents for waste water treatment, 2022, Scopus, International, Peer Reviewed.

Departmental Activities

- **A workshop on Basic Practical Chemistry: Fundamental Facts and Applications to Modern Life. Co-ordinators:** Dr. Rishu and Dr. Aanchal Batra on 25 August 2022.
- **A poster making competition on theme: Role of youth icons in Indian Innovations and Technology to mark celebration of National youth day under ageis of IIC 5.0 on 12th Jan 2023. Co-ordinators:** Dr. Rishu, Dr. Nisha Dawra
- **A special lecture to mark celebration of Science day on 24th Feb 2023 by Dr. Arjit Kumar De. Co-ordinators:** Dr. Madhuri Tanaji Patil, Dr. Rishu, Dr. Manjot and Dr. Shweta.
- **Hands on Training on Sophisticated analytical instruments under the ageis of STUTI an initiative by DST India on 15th March to 21st March 2023.**
Co-ordinators: Dr. Shefali Dhiman
- **A poster making competition on theme: Keen To be Clean under ageis of IIC 5.0 on 24th Feb 2023. Co-ordinators:** Dr. Aanchal Batra, Dr. Nisha Dawra
- **Departmental activity on Mission Life. A GOI initiative organised under Swachhta Committee (Sciences) . Co-ordinators:** Dr. Shefali Dhiman and Dr. Sagarika Dev.

Activities of Faculty

Dr. Shefali Dhiman

- Participated in 5 days integrated Yoga & Ayurveda Wellness Capacity building Programme for educators in higher education institutions from 2nd to 6th August 2022, organised in association with Govt. College of Yoga Education & Health, Chandigarh
- Organised Hands on Training on Sophisticated analytical instruments under the ageis of STUTI initiative by DST India on 15th March to 21st March 2023.
- Organised online meet on Mission Life. A GOI initiative organised under Swachhta Committee (Sciences) on 22nd May 2023.

Dr. Sagarika Dev

- Organised Hands on Training on Sophisticated analytical instruments under the aegis of STUTI initiative by DST India on 15th March to 21st March 2023.
- Organised online meet on Mission Life. A GOI initiative organised under Swachhta Committee (Sciences) on 22nd May 2023.

Dr. Qudrat Hundal

- Organised Hands on Training on Sophisticated analytical instruments under the aegis of STUTI initiative by DST India on 15th March to 21st March 2023.
- Appointed as Judge Pandit Nank Chand Memorial Skit and Monoacting Contest on 25th Nov 2022 at DAV Senior Secondary School.

Dr. Madhuri Tanaji Patil

- Organised A special lecture to mark celebration of Science day 24th Feb 2023 by Dr. Arjit Kumar De.
- Organised Hands on Training on Sophisticated analytical instruments under the aegis of STUTI initiative by DST India on 15th March to 21st March 2023.

Dr. Rishu

- Organised A workshop on Basic Practical Chemistry: Fundamental Facts and Applications to Modern Life on 25 August 2022.
- Organised A special lecture to mark celebration of Science day on 24th Feb 2023 by Dr. Arjit Kumar De.
- Organised A poster making competition on theme: Role of youth icons in Indian Innovations and Technology to mark celebration of National youth day under aegis of IIC 5.0 on 12th Jan 2023
- Organised Hands on Training on Sophisticated analytical instruments under the aegis of STUTI initiative by DST India on 15th March to 21st March 2023.
- Judgement of Science Exhibition in Chem Fest at PGGC, Sec 11 on 31st March 2022.
- Participated in two days 4th National Level Workshop on NIRF India Rankings 2023.

Dr. Aanchal Batra

- Participated in 5 days integrated Yoga & Ayurveda Wellness Capacity building Programme for educators in higher education institutions from 2nd to 6th August 2022, organized in association with Govt. College of Yoga Education & Health, Chandigarh.
- Organized a workshop on Basic Practical Chemistry: Fundamental Facts and Applications to Modern Life on 25 August 2022.
- Attended a two week refresher course on “Advanced Research Methodology” from 22nd December 2022 to 5th January 2023 by Teaching Learning Centre, Ramanujan College University of Delhi in collaboration with Janki Devi Memorial College University of Delhi.
- Organized a poster making competition on theme: Keen to be clean under ageis of IIC 5.0 on 24th Feb 2023.
- Organised Hands on Training on Sophisticated analytical instruments under the ageis of STUTI initiative by DST India on 15th March to 21st March 2023.

Dr. Nisha Dawra

- Participated in 5 days integrated Yoga & Ayurved Wellness Capacity building Programme for educators in higher education institutions from 2nd to 6th August 2022, organised in association with Govt. College of Yoga Education & Health, Chandigarh.
- Organised A poster making competition on theme: Role of youth icons in Indian Innovations and Technology to mark celebration of National youth day under ageis of IIC 5.0 on 12th Jan 2023
- Organised A poster making competition on theme: Keen To be Clean under ageis of IIC 5.0 on 24th Feb 2023.
- Organised Hands on Training on Sophisticated analytical instruments under the ageis of STUTI initiative by DST India on 15th March to 21st March 2023.

Ms. Sonia Devi

- Participated in 5 days integrated Yoga & Ayurved Wellness Capacity building Programme for educators in higher education institutions from 2nd to 6th August 2022, organised in association with Govt. College of Yoga Education & Health, Chandigarh.
- Oral Presentation on “PROTON PUMP INHIBITORS: RABEPRAZOLE AND OMEPRAZOLE” in One Day International Conference on Recent Advances in Green & Sustainable Chemistry organized by the Department of Chemistry, School of Basic & Applied Sciences_ICRAGSC
Maharaja Agrasen University, on 22nd December 2022.
- Attended 26th National Youth Festival from 12th January to 16th January 2023, as Teacher Incharge to represent team Chandigarh at Hubballi - Dharawad, Karnataka.
- Poster Presentation on “Design, Synthesis and Anticancer Evaluation of Spiro [cyclohexane-1,1'-indene]-2,5-diene Analogues” In Prof. Ram Chandra Paul National Symposium organised by Panjab University on 21-22nd February, 2023.
- Organised Hands on Training on Sophisticated analytical instruments under the ageis of STUTI initiative by DST India on 15th March to 21st March 2023.

Dr Archana

Organized Hands on Training on Sophisticated analytical instruments under the ageis of STUTI initiative by DST India on 15th March to 21st March 2023.

Dr Shilpa Dogra

Organized Hands on Training on Sophisticated analytical instruments under the ageis of STUTI initiative by DST India on 15th March to 21st March 2023.

Dr. Manjot Kaur

Delivered a Lecture on NMR spectroscopy and Organised Hands on Training on Sophisticated analytical instruments under the ageis of STUTI initiative by DST India on 15th March to 21st March 2023.

Dr. Swatika Sharma

Delivered a Lecture on UV spectroscopy and Organised Hands on Training on Sophisticated analytical instruments under the aegis of STUTI initiative by DST India on 15th March to 21st March 2023.

Dr. Yeshbinder Kaur

Delivered a Lecture on IR spectroscopy and Organised Hands on Training on Sophisticated analytical instruments under the aegis of STUTI initiative by DST India on 15th March to 21st March 2023.

Students Publications /Awards/Achievements/Activities:

Student Research Activities:

S. No	Name of student	Name of project	Name of supervisor	Dates
1.	Priyanshi Saini, M. Sc Chemistry	Green Synthesis of Zinc Oxide Nanoparticles using Aloe Vera	Dr. Shefali	July 2022- August 2023
2.	Komal Sharma, M. Sc Chemistry	Green Synthesis of Zinc Oxide Nanoparticles using Aloe Vera	Dr. Shefali	June 2022- August 2023

Student Awards:

- **PRIYANSHI SAINI, M. Sc Chemistry II,**
✓ Got 3rd prize in poster presentation at INTERNATIONAL CONFERENCE on Recent advances in green and sustainable chemistry organised by Maharaja Agrasen University, Baddi Himachal Pradesh.
- Got 1st prize at poster presentation on the theme: KEEN TO BE CLEAN organised by Postgraduate Department of Chemistry in association with Swachhta Committee [Sciences] under the aegis of MCM Vigyan ManchArushi Dhiman,
- **Ankita, M. Sc Chemistry I,** Third prize in Poster Presentation Competition to mark the celebration of National Youth day on the theme ROLE OF YOUTH ICONS IN INDIAN INNOVATIONS AND TECHNOLOGY, Postgraduate Department of Chemistry (Institution's Innovation Council 5.0)

- **Aarzoo, M. Sc chemistry I**, Third prize in Poster Presentation Competition to mark the celebration of National Youth day on the theme **ROLE OF YOUTH ICONS IN INDIAN INNOVATIONS AND TECHNOLOGY**, Postgraduate Department of Chemistry (Institution's Innovation Council 5.0)
- **Kirandeep kaur, M.sc chemistry-II**
 - ✓ 1st prize - Landscaping competition
 - ✓ 3rd prize - Diwali fest stall
- **Darshita, M.sc chemistry-II**, First prize in category of student entrepreneurs at Diwali fest.
- **Komal Sharma, M.Sc Chemistry II**, 1 st Prize in poster presentation on the theme: **KEEN TO BE CLEAN**, organised by Postgraduate Department of Chemistry in association with Swachhata Committee [Sciences] under the aegis of MCM Vigyan Manch.
- **Mehak Saini, M.Sc Chemistry II**, Prize - 2nd prize in Poster Presentation Competition to mark the celebration of National Youth day on the theme **ROLE OF YOUTH ICONS IN INDIAN INNOVATIONS AND TECHNOLOGY**, Postgraduate Department of Chemistry (Institutions' Innovation Council 5.0)
- **Archisha Sharma, M.Sc Chemistry II**, 2nd Prize in Poster Presentation Competition on the theme: **KEEN TO BE CLEAN** organised by Postgraduate Department of Chemistry in association with Swachhata Committee [Sciences] under the aegis of MCM Vigyan Manch.
- **Varsha Saini, M.Sc Chemistry II**, 2nd Prize in Poster Presentation Competition on the theme: **KEEN TO BE CLEAN** organised by Postgraduate Department of Chemistry in association with Swachhata Committee [Sciences] under the aegis of MCM Vigyan Manch.
- **Ruchi Pandey, M. Sc Chemistry II**
 - ✓ Diwali fest, Position: 3
 - ✓ Landscaping competition using waste material , Position: 1
 - ✓ Clear Allen exam for placement

Student Achievements:

- Simran Rawat (M.Sc. Chemistry), qualified ALLEN exam, 2023
- Ruchi Pandey, (M.Sc. Chemistry), qualified ALLEN exam, 2023