

University Instrumentation Centre- Manav Rachna University

About us

University Instrumentation Centre is equipped with high-end instruments for providing the advanced instrumentation facilities to researches in science and technology. These instruments and facilities help the faculties, research scholars and students to carry out globally competitive research in basic, applied and medical sciences. The advanced analytical instruments available in this facility offer a wide range of analytical methods/techniques for chemical/material testing and analysis. This consequently, will help researchers to publish their research findings in peer reviewed high impact factor journals. This Centre is also registered with I-STEM, Indian Science Technology and Engineering Facilities Map to serve the researchers at larger scale. Ultimately, the focused effort of this Centre is to contribute in the upliftment of society at large by boosting the research & developmental activities. After the establishment of this Centre in the Year of 2022, with every passing year this Centre is expanding its instrumentation facility with a hope to become one a core facility in the country.

UIC-MRU is also promoting collaborative analytical research work with industries and academic institutions. UIC-MRU runs under the purview of School of Sciences and is expected to self-sustain by revenue generation by for the upkeep and maintenance of the instruments. The services of this facility are not limited only to the stakeholders of MRU but are extended to academic & research institutions, universities, industries and NGOs.

Vision:

UIC-MRU envisions to be an advanced instrumentation centre by acquiring the modern and sophisticated instruments to serve in frontier areas of Science & Technology.

Mission:

- To host various sophisticated instruments to cater the need of cutting-edge research in thrust areas of science and technology.
- To be known as innovative, creative and successful centre for providing high quality sample/specimen fabrication and characterization/analysis.
- To make available the sophisticated instruments at reasonable charges to the faculty members, scientists, UG/ PG/ Ph.D. students and individuals from universities, laboratories, institutes, and industries that are either government or self-funded.

Objectives of the UIC

UIC has been created with following objectives:

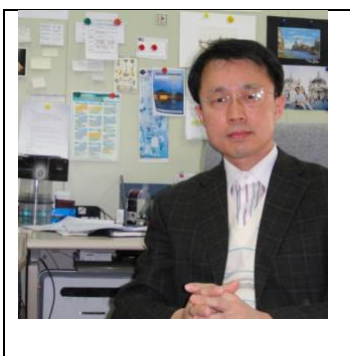
- To offer a wide range of fabrication, characterization, testing techniques for Chemical, Mechanical, Nano-Bio-Material, Physics, Agriculture, Geophysical researchers/scientists.
- To extend the facility for organizing short term courses/workshops on the use and application of various instruments and analytical techniques.
- To encourage and support, extensively, to the UG/PG/Ph.D. students and faculty members towards quality research and developments.
- To generate Research & Consultancy Grants from Govt. Funded Schemes and Industries.
- To extend the facility to external organizations; academic institutions and industries in India/abroad.
- To generate Research & Consultancy Grants from Govt. Funded Schemes and Industries.

Facilities available at UIC-MRU

S.NO	Instrument Name	Make /Model	Year of Purchase
1	FTIR with ATR	Shimadzu, QATR-IR Sprit	2022
2	GCMS	Shimadzu; GCMS-QP2020NX	2022
3	UV-Visible Spectrophotometer	Shimadzu, UV-1800	2015
4	RF/DC magnetron Sputtering	SAI, SAI-300	2022
5	Solar Simulator	FYTRONIX-AAA	2022
6	Spin Coater	FYTRONIX--5000	2022
7	X-ray diffraction	Rigaku (Mini-600)	2023

	
<p align="center">FTIR</p>	<p align="center">GCMS</p>
	
<p align="center">UV-VIS Spectrophotometer</p>	<p align="center">RF-Sputtering</p>
	
<p align="center">Solar Simulator</p>	<p align="center">Powder XRD</p>

International & National Collaborators

	<p>Prof. (Dr.) Hyun Joon Shin Professor, Department of Physics, Chungbuk National University, Cheongju, 28644, South Korea, Office phone: 043-261-2269, Cell phone: 010-9203-1681. Area of Expertise: Synchrotron Radiation based Nano-Spectroscopy.</p>
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	Thin films, battery materials, catalyst materials.
	<p>Dr. Keun-Hwa Chae Staff Scientist, Korea Institute of Science and Technology, Seoul, South Korea.</p> <p>Area of Expertise: Development of Synchrotron Accelerator Beam line facility and research of Nano-Science and Nanotechnology.</p>
	<p>Dr. K. Devarani Devi Staff Scientist, Inter-University Accelerator Laboratory, New Delhi.</p> <p>Area of Expertise: Development of particle Accelerator Beam line facility (Ion-implantation) and research of Nano-Science and Nanotechnology.</p>
	<p>Dr. Yogesh Kumar</p> <p>DST-INSPIRE faculty, Bhabha Atomic Research Centre, Mumbai, India.</p> <p>Area of Expertise: Development & Testing Magnetic materials/devices, Research on Ion-irradiation induced modification in the electronic band structure of magnetic materials and dielectric materials.</p>
	<p>Dr. Sung Ok Won,</p> <p>Staff Scientist & Manager; X-ray open Laboratory Korea Institute of Science and Technology, Seoul, South Korea.</p> <p>Area of Expertise: R&D of X-ray-based machines like; X-reflectivity, X-ray diffraction, PDF, and Small angle X-ray scattering. Synthesis of Hydroxi-apatite for an artificial bone graft.</p>



Byeong-hyeon Lee ,

Staff Scientist, Korea Institute of Science and Technology, Seoul, South Korea.

Area of Expertise: R&D of X-ray based machines like; X-reflectivity, X-ray diffraction, PDF, and Small angle X-ray scattering.

Training/Workshop organized by UIC-MRU

1. One Day training Program on X-Ray Diffraction: 17th January 2024

MANAV RACHNA UNIVERSITY
Declarated as State Private University vide Haryana Act 26 of 2014

**School of Sciences
University Instrumentation Centre
UIC-MRU**

organizes

**ONE DAY TRAINING
ON
X-RAY DIFFRACTION**

Date: 17th January 2024
Venue: University Instrumentation Center-MG04

Registration Link:
<https://forms.gle/2TV6FvWTDJnTMpcf6>

EVENT REPORT

Title: X-Ray Diffraction

Date: 17-01-2024

Time: 11:00 am -04:00 pm

Venue: MG-04/UIC

Resource Person:

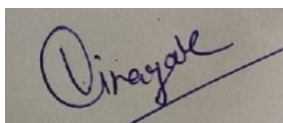
1. Dr. Rakesh Kumar Mishra (Lecture)
2. Mr. Akhilesh Kumar Paswan (Application Engineer)
3. Mr. Brijesh Kumar (Application Engineer)

Number of Attendees: 18

The students were welcomed in the inaugural session by UIC members. The session was taken over by the resource person and conducted as per following schedule:

The XRD (Rigaku, Miniflex 600) has been procured in UIC-MRU and installed successfully. A one-day training program was conducted on 17.01.2024 for faculties and Ph.D. scholars to learn the usage of XRD. The demo of the instrument was conducted in three sessions (10:30 am-12:00 noon; 2:00 pm-3:00 pm and 3:00 pm to 4:00 pm).

The theoretical aspects of the instruments were also covered in a session from 12:30 to 2:00 pm by Dr. Rakesh Kumar Mishra. The demo was given by two application engineers (Mr. Brijesh Kumar and Mr. Akhilesh Kumar Paswan). One of the demo sessions was also graced by the presence of Dean Academics, Dean Sciences & HOD Sciences. The event was attended by around 10 faculty members and 8 students (Ph.D. + PG). Few screenshots of the event are attached herewith.



Dr. Vinayak V. Pathak
(In-charge UIC-MRU)

Glimpses of Event



2. One day workshop on Advanced Instrumentation and Sustainable Waste Management Techniques: 17th Feb 2024

**UNIVERSITY INSTRUMENTATION CENTER
&
DEPARTMENT OF SCIENCES
IN COLLABORATION WITH
HSMD, MOEF&CC**

**ADVANCED INSTRUMENTATION AND
SUSTAINABLE WASTE MANAGEMENT
TECHNIQUES**

**VENUE: MG04-UIC TIME: 9:30 AM ONWARDS
DATE: 17TH FEBRUARY, 2024**

ORGANIZING COMMITTEE
PROF. (DR.) MEENA KAPAH,
DR. EKTA RAWAT, DR. PRITI GUPTA, DR. A. JAYMANI, DR. HARSHA DEVNANI
DR. VINAYAK V. PATHAK

Contact detail:
E-mail: uic@mru.edu.in
Mobile No: +919870400870

EVENT REPORT

Title: One day workshop on Advanced Instrumentation and Sustainable Waste Management Techniques

Date: 17-02-2024

Time: 9:30 am onwards

Venue: MG-04/UIC

Number of Attendees: 48

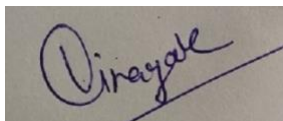
University Instrumentation Centre and School of Sciences, Manav Rachna University Faridabad is organizing a one-day workshop on “**Advanced Instrumentation and Sustainable Waste Management Techniques**” on 17th February 2024.

The students were welcomed in the inaugural session by Prof. (Dr.) Meena Kapahi (Dean, School of Sciences), Dr. Sandeep Kumar (Head, Department of Sciences), Dr. Vinayak V. Pathak (Incharge-UIC) and other faculty members of Department of Sciences, MRU.

In the first session of the workshop, Dr. Sandeep Kumar gave important information about the department to the participants. He explained about the courses offered in the department, research areas of the faculty members of the department, achievements the students have and what opportunities are available in the department for students. In the same session, Dr. Vinayak Vandan Pathak told the participants about the efforts made by the university regarding solid waste management. He also informed the students regarding facilities available at University Instrumentation Centre. Prof. (Dr.) Meena Kapahi discussed with the participants about various methods related to solid waste management and demonstrated different working models for solid waste management.

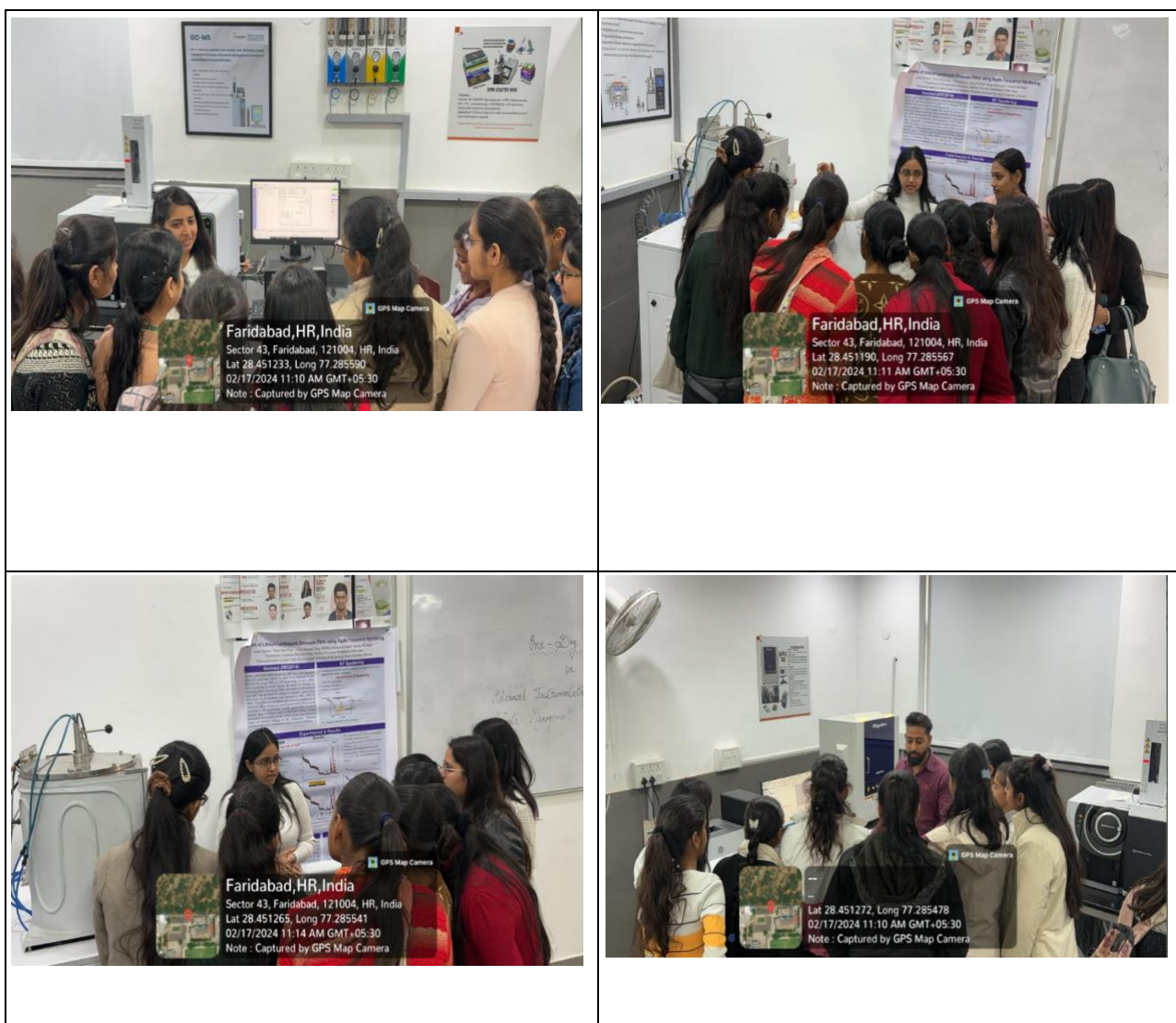
In the second technical session of the workshop, Dr. Priti Gupta and Dr. Ekta Rawat gave a demonstration to the participants of various state-of-the-art instruments installed in the University Instrumentation Centre. The participants understood the working of instruments like GC-MS, FTIR, Powder XRD, UV-Visible Spectrophotometer and RF-Sputtering and explained their applications. Research Scholars of Department of Science Ms. Eksha, Ms. Anjali Sharma, Mr. Osheen and Ms. Neha provided hands-on training to sophisticated analytical instruments to the participants.

Dr. Vinayak v. Pathak and Dr. A. Jayamani took the participants on a tour of the wastewater treatment plant and biogas plant located in the University. The participants were explained in detail about the wastewater treatment and biogas production process.



Dr. Vinayak V. Pathak
(In-charge UIC-MRU)

Glimpses of Event



3. Unearthed Dangers: The hidden threats of solid waste in disaster risk in collaboration with Hazardous Waste Management Division, Ministry of Environment Forest & Climate Change: 18th March to 22nd March 2024.



MANAV RACHNA UNIVERSITY
 Established as Deemed to be University vide Ministry Act 25 of 2014



Training Program

on

“Unearthed Dangers: The Hidden Threat of Solid Waste in Disaster Risk”

organised by

School of Sciences, Manav Rachna University, Faridabad
 in collaboration with

Hazardous Substances Management Division (HSMD), MoEFCC, GoI
(18 To 22 March 2024)

Mode: Hybrid



SCAN THE QR CODE
FOR REGISTRATION



Click on the Link:

<https://forms.gle/kbiketXME7EbAPjcw9>

PROF. (DR.) I.K. BHAT
 CHIEF PATRON

PROF. (DR.) SANGITA BANGA
 GOVERNOR, PATRON

Organizing Committee

Prof. (Dr.) M. Kapahi
 Convener

Dr. Ananna Bardhan
 Co-Convener

Dr. Vinayak V. Pathak
 Organizing Secretary

Dr. A. Sahai
 Treasurer

Prof. (Dr.) D.K. Sharma
 Member

Dr. Sandeep Kumar
 Member

Dr. Arpit Sand
 Member

Dr. Aparna Vyas
 Member

Dr. Priti Gupta
 Member

Dr. A. Jayamani
 Member

- Registration fee: Free (Supported by MoEFCC, GoI)
- The candidates are requested to register online on or before 10th March 2024, 11:00 am by filling up the Google form using the mentioned link or by scanning the given QR code.
- The seats are limited in number; participants are requested to register at the earliest.



EVENT REPORT

Title: FDP on Unearthed Dangers: The hidden threats of solid waste in disaster risk

Date: 18th March to 22nd March 2024

Time: 9:30 am onwards

Venue: I Block Auditorium and MG-04/UIC

School of Sciences, Manav Rachna University Faridabad in collaboration with Hazardous Waste Management Division, Ministry of Environment Forest & Climate Change organized five days training program Unearthed Dangers : The hidden threats of solid waste in disaster risk “ from 18 to 22 March 2024. The objective of the training program was to provide insight on current practices and changes in solid waste management and to understand the risk due to improper handling of solid waste management. The first day of the training program was focused on the interlinking between solid waste generation and disaster risk.

The first day of the training program provided participants with a comprehensive overview on disaster risk reduction initiatives and its link with solid waste management practices. Dr. Muzaffar Ahmad, (Former Member, National Disaster Management Authority, India), Dr. Veenu Joon (Additional Director, MoEF&CC), Dr. Abdheesh K. Gangwar (Regional Director, CEE, India) delivered the expert talk on the first day.

The focus of the second day of the training session was community based participation in solid waste management and technical aspects of vermicomposting for solid waste management. Three distinguished experts viz. Dr. Deep Narayan Pandey (Special Centre for Disaster research, JNU), Dr. Mukesh Kanwar (Dr. H.S. Gour University), Prof. Paromita Chakraborty (SRMIST) shared their insight on the second day.

The third day emphasized the health hazards due to lack of solid waste management. Prof D.K. Sharma (IIT Delhi), Dr. Kalpana Arora (Consultant, Ministry of Urban & Housing Affairs, GoI) and Prof. P.K. Joshi (JNU) delivered an expert lecture on the third day.

On the fourth day of the training program, Dr. Satyam Verma (Dr. H.S. Gour University) and Dr. R.P. Singh (Banaras Hindu university) shared their insights on the role of GIS for solid waste Management and case studies on solid waste management. Mr. Himanshu Tilwankar (Advisor, Vyoants) explained the plastic waste management and associated health risk on the fifth day of the training session.

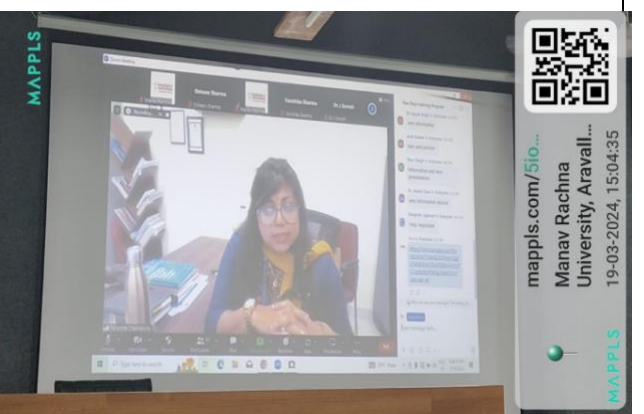
Dr. Vinayak V. Pathak
(In-charge UIC-MRU)

Glimpses of the Event

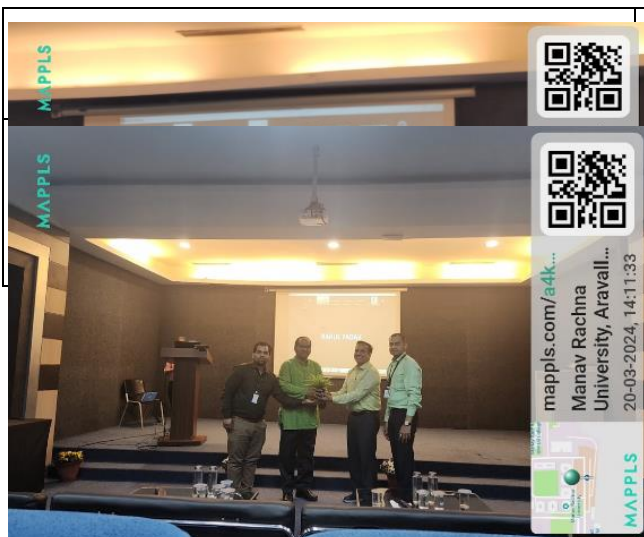
Day 1

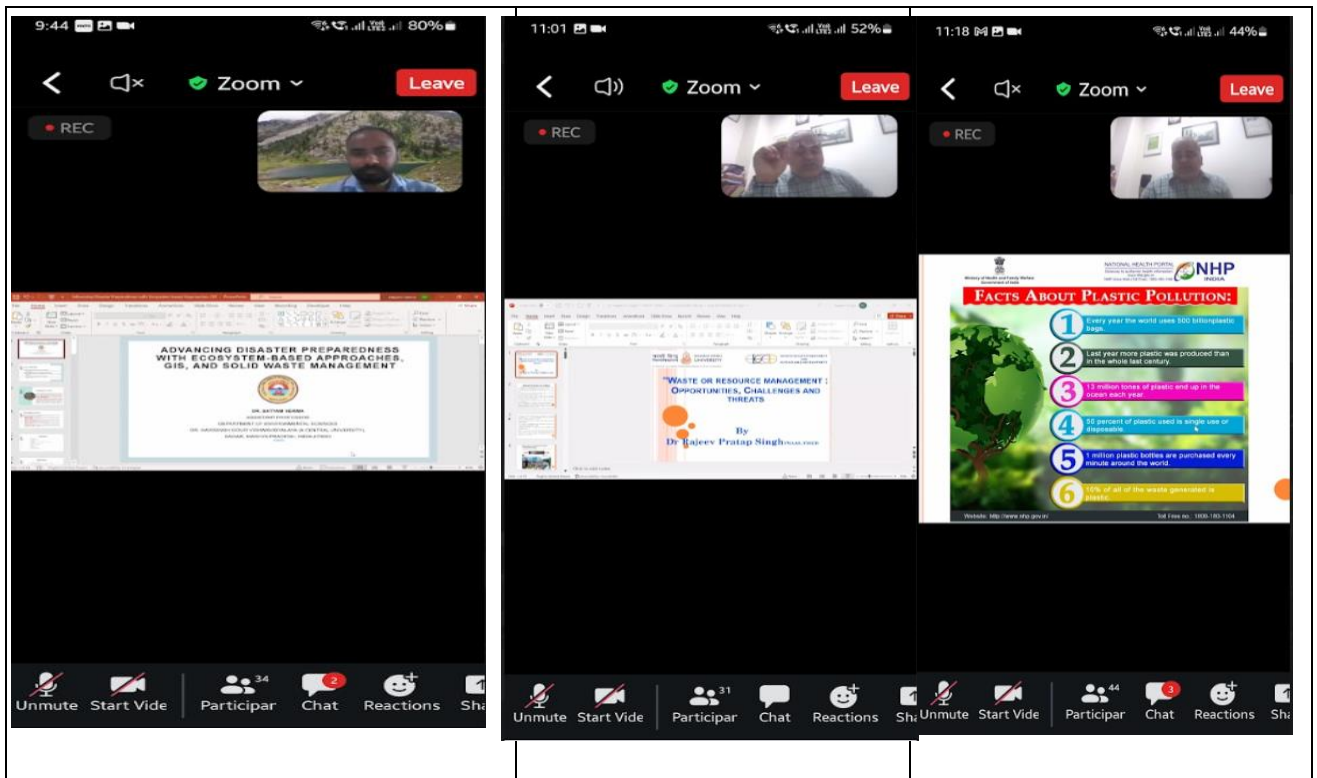


Day 2

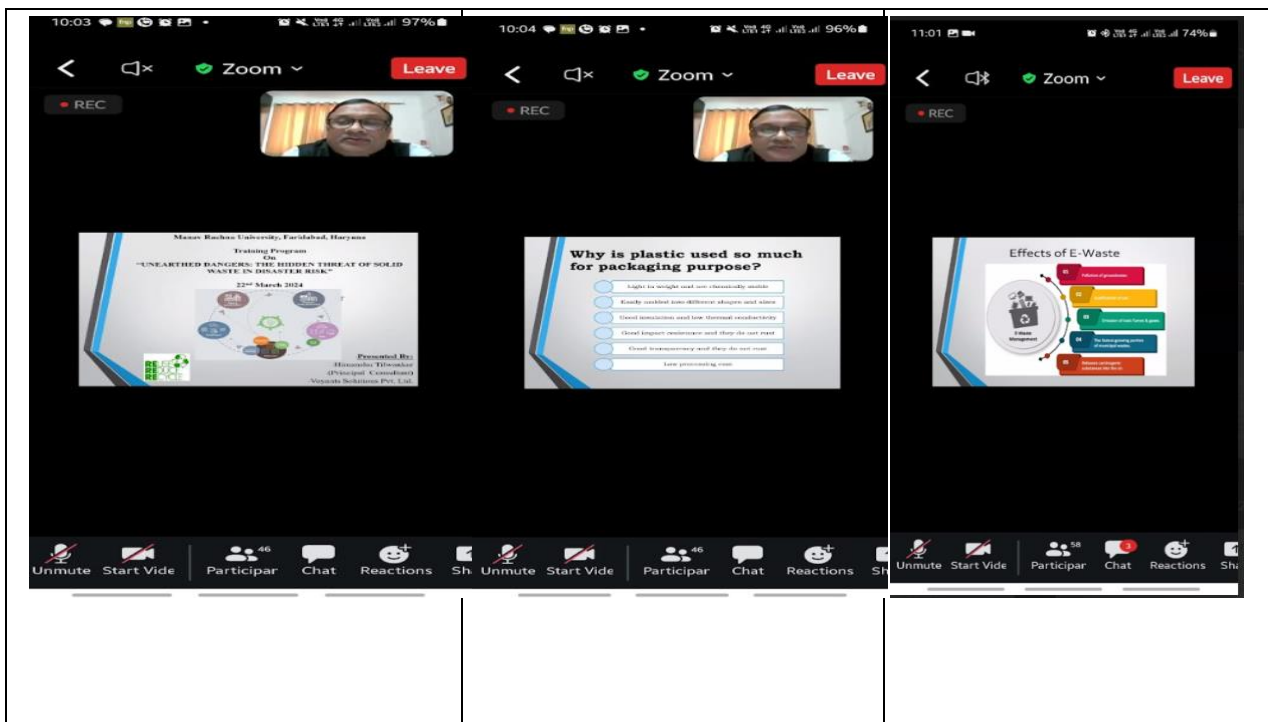


Day 3





Day 5



4. One day workshop on Practical skill enhancement in sophisticated analytical instruments: 4th April 2024



**MANAV RACHNA
UNIVERSITY**

Declared as State Private University vide Haryana Act 26 of 2014

**University Instrumentation Centre
(UIC-MRU)
School of Sciences**

*is organizing
One Day Workshop on*

**PRACTICAL SKILL
ENHANCEMENT IN
SOPHISTICATED
ANALYTICAL
INSTRUMENTS**



EVENT DETAILS

Date: 04th April 2024

Venue: UIC-MRU (MG04)

Time: 9:30 am onwards

ORGANIZING COMMITTEE

Prof. (Dr.) Meena Kapahi Dr. Priti Gupta

Dr. Ekta Rawat

Dr. J.P. Singh

Dr. V. V. Pathak

Dr. A. Jayamani

 uic@mu.edu.in

 +919870400874

EVENT REPORT

Title: Practical Skill Enhancement in Sophisticated Analytical Instruments

Date: 4th April 2024

Time: 9:30 am onwards

Venue: MG-04/UIC

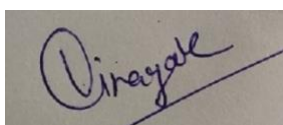
Number of participants: 59

University Instrumentation Centre, School of Sciences, Manav Rachna University organized one day workshop on **Practical Skill Enhancement in Sophisticated Analytical Instruments** on 4th April 2024. A total 59 participants including Students and faculty members from Government College for Women Faridabad and Pt. Jawahar Lal Nehru Government College, Faridabad attended the workshop.

In the inaugural session Prof. (Dr.) Meena Kapahi (Dean School of Sciences), Dr. Sandeep Kumar (Head, Department of Sciences), Dr. Arpit Sand (Program Head-chemistry), Dr. Aparna Vyas (Program Head-Mathematics), Dr. Priti Gupta, Dr. Ekta Rawat, Dr. A. Jayamani and Dr. Vinayak V. Pathak welcomed the participants.

Dr. Sandeep Kumar explained about the vision and different courses offered by the department, research areas of faculty members, student's achievements and various research facilities available in the Department of Sciences. The students were also informed about the waste management techniques. Prof. (Dr.) Meena Kapahi and Dr. V.V. Pathak, demonstrated the bioenzyme production and compost preparation.

In the next technical session, students were provided with hands on training of advanced instruments at University Instrumentation Centre. All participants understood the functioning of Gas chromatography-mass spectrophotometry, Powder XRD, Fourier Transform Infrared Spectroscopy, UV-Visible spectrophotometer and RF- sputtering. Dr. Priti Gupta, Dr. Ekta Rawat and Dr. A. Jayamani along with research scholars of Department of Sciences demonstrated the instruments to all participants.



Dr. Vinayak V. Pathak
(In-charge UIC-MRU)

Glimpses of Event



ANNEXURE-I

List of instruments available at UIC

S. No.	Name of the Instrument	Make & Model	Scope
1.	GCMS	Shimadzu; GCMS-QP2020NX	<p>The Shimadzu single quadrupole GCMS-QP2020 NX gas chromatograph-mass spectrometer (GC-MS) not only boasts the best performance in its class, but also the highest efficiency. This new high-end single-quad GCMS excels in both ease-of-use and robustness. The role of high-performance analytical instruments is expanding in areas as diverse as environmental pollution monitoring, forensics and material science. High-performance ion source and ion optics enhance ionization and transport efficiency</p> <ul style="list-style-type: none">• Large-capacity turbomolecular pump with enhanced exhaust efficiency improves use with helium as well as hydrogen and nitrogen• Improved temperature control function enables more precise oven temperature and three new cooling rate levels that can be specified• Easily switch between EI and PCI methods using new Smart-CI source• High-speed scan and data acquisition using Advance Scanning Speed Protocol (AASPTM) to achieve speeds up to 20,000 μ/second across all masses• Ecology mode reduces costs associated with power and carrier gas consumption

2.	UV-Visible Spectrophotometer	Shimadzu, UV-1800	<p>The UV-1800 is an advanced high-resolution spectrophotometer utilizing a precision Czerny-Turner optical system. Operation can be either as a stand-alone instrument or as a PC-controlled instrument with the included UV Probe software. USB memory can be connected directly to the UV-1800 for simple data transfer and printing is possible with the optional screen-copy printer or printers that support PCL control codes.</p> <p>Powerful 1-nm resolution in a compact double-beam instrument</p> <ul style="list-style-type: none"> • Extremely versatile with full functionality from 190 to 1100 nm • Control as a stand-alone unit or through a PC with included UVProbe software • PC interface and flash-drive data transfer via USB connectivity • Built-in validation software ensures operational accuracy
3.	RF/DC magnetron Sputtering	SAI, SAI-300	<p>Dimensions: Standard Size 12" 15" and 18". Custom Size also available</p> <p>Chamber: Stainless Steel with Cooling channels. All the inner walls are polished to achieve low degassing rates and reach better ultimate vacuum and fitted with Viton "O" rings.</p> <p>Suitable thickness SS liners are provided inside the chamber on all surfaces to prevent the coating on the chamber surface by evaporating material. Vacuum Chamber is provided with 2-3 Nos. view Ports for monitoring of process. The chamber is Helium Leak Tested using Helium Leak Detector to an individual leak rate of 1×10^{-9} m.bar ltrs/sec.</p> <p>Optional: Dry Pump (Diaphragm Pump), Turbo Molecular Pumps and Cryo</p>

			<p>Pumps Pumping System: Oil Rotary Pump, Diffusion Pump, Roughing & Backing Valve, Butterfly Valve, Liquid Nitrogen Trap, Pirani & Penning Guages to measure Vacuum upto 10⁻⁶ mbar vacuum. With Turbo Molecular Pump and Cryo Pump, Ultimate Vacuum can be achieved in the range of 10⁻⁷ mbar.</p> <p>Magnetron: 1 No. 2" size Magnetron as Standard. 4 Nos. Magnetron of different size with Confocal geometry can also be provided on request.</p> <p>Magnetron Orientation: As a standard Downward Sputtering. We can provide Up Sputtering and Con-focal Magnetron Orientation as per customer request can be provided.</p> <p>Glow Discharge: HT Glow Discharge for cleaning is provided.</p> <p>Sputtering Power Supply: As a standard 2Kw DC Power supply and 300W RF Power Supply with Matching Network. RF or DC or Pulsed DC or combination of either of RF or DC or Pulsed DC of any rating as per Customer request can be provided.</p> <p>Shutters: Shutters are provided to cover Substrate and Magnetron Target Holders.</p> <p>Target Holder: Target Holder with Water Cooling arrangement is provided as per Substrate size.</p> <p>Safety Devices: Water flow Switch, LT & HT control switch, Electrical Load switch, DP Heater protection switch.</p> <p>Control System: As a standard Manual. PLC and SCADA based to store recipe of Evaporation Cycle and automatic control of system.</p> <p>Aesthetics: Compact and Elegant, Easy to Service and Cabinet Mounted for</p>
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			maneuverability.
4.	Solar Simulator	FYTRONIX-AAA	<p>FYTRONIX solar simulators use a single lamp design to meet Class A requirements with 1 SUN output power. FYTRONIX solar simulators are certified to Class AAA for all three of the following standards:</p> <p>Class: AAA IEC 60904-9 Edition 2 (2007), JIS 8904-9 (2017), and ASTM E927-10 (2015).</p> <ul style="list-style-type: none"> • Spectral match: Class A • Spatial non-uniformity of irradiance, Class A • Temporal instability, Class A • Illuminance area: 40 mm diameter • Variable intensity for 1mW/cm² to 1000 W(m² (1 SUN) output
5.	Spin Coater	FYTRONIX--5000	<p>For sol-gel coating there are basically two methods: a spin coating method for one-sided sol-gel coating or dip coating for double-sided coating. Both sol-gel coating techniques are commonly used in manufacturing thin films. The sol-gel process is a method used to make solid materials from small molecules. Sol-gel coating is a way to create single- or multicomponent oxide coatings on glass or metals.</p>
6.	Powder XRD	Rigaku- Miniflex 600	<p>The MiniFlex benchtop X-ray diffractometer is a multipurpose powder diffraction analytical instrument that can determine: crystalline phase identification (phase ID) and quantification, percent (%) crystallinity, crystallite size and strain, lattice parameter</p>

			refinement, Rietveld refinement, and molecular structure. It is widely used in research, especially in material science and chemistry, as well as in industry for research and quality control. It is the newest addition to the MiniFlex series of benchtop X-ray diffraction analyzers from Rigaku, which began with the introduction of the original MiniFlex XRD system decades ago.
7.	FTIR	FTIR with ATR Shimadzu, QATR-IR Sprit	IRSpirit is a compact Fourier Transform Infrared Spectrophotometer that travels where it's needed. It gracefully accommodates available bench space and the sample compartment is easily accessible with the system facing forward or sideways. In addition, IRSpirit is equipped with the widest sample compartment in its class, to easily accommodate both Shimadzu and third-party accessories. IRSpirit also offers the highest S/N ratio (30,000:1*1) in its class using the technology inherited from the high-end model. Furthermore, a newly developed dedicated IR Pilot program*2 offers 23 standard application programs to simplify analysis for all users.

Analysis charges (in INR) for using instruments in UIC

Charges for users:

List of Major Instruments and their Charges*

S.No.	Instrument Name	Model/Make	Minimum quantity of sample required	Analytical Charges (in INR) for Internal user (per sample/ per hour)	Analytical Charges (in INR) for External user** (Academia, R &D) (per sample/ per hour)
1.	FTIR with ATR	Spectrum Two with ATR-Shimadzu	1 g	100 (per sample)	500 (per sample)
2.	GC-MS Gas Chromatography Mass Spectrometry	GC-2014C AFsc-Shimadzu	2 g	240 (per sample for Qualitative analysis) 500 (per sample for Quantitative analysis)	1200 (per sample for Qualitative analysis) 2500 (per sample for Quantitative analysis)
3.	UV-Visible Spectrophotometer	UV-Vis 1800-Shimadzu	5 mL/2 g	50 (per sample)	250 (per sample)
4.	Programmable High Temperature Furnace (RT to 1400°C)	Pro Fur 1500-City Instruments	5 g	100 (per sample)	500 (per sample)
5.	RF Magnetron-Sputtering System (for preparation of thin films and nanostructures)	RF/DC Sputtering System Scientific & Analysis Instruments	-Targets size 2X2 inch -Substrate size 1X1 cm	400 per set (max. 4 pieces) 300 for additional per piece	2000 per set (max. 4 pieces) 300 for additional per piece
6.	Powder XRD	Minflex- 600 / Rigaku	1-2 g	240 (per sample) 500 (per hour)	700 (per sample) 2500 (per hour)

* The number of instruments and their charges will be updated time-to-time.

** GST applicable for external users.

Note: -

1. All the faculty members and students of Manav Rachna Educational Institutions (UG, PG, Ph.D., RAs & PDFs) shall be given free trainings in the center and 20% fees shall be payable for the usage of UIC instruments from an individual using the facilities as recurring cost.
2. External users will get 50% rebate in charges for bulk sampling i.e., more than 20 samples for the same instrument. No clubbing of instruments allowed in case of bulk samples.


Dr. Vinayak V. Patil (Incharge UIC-MRU)

Annexure I

Charges for users:

List of Major Instruments and their Charges*

S.No.	Instrument Name	Model/Make	Minimum quantity of sample required	Analytical Charges (in INR) for Internal user (per sample/ per hour)	Analytical Charges (in INR) for External user** (Academia, R &D) (per sample/ per hour)
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3.	UV-Visible Spectrophotometer	UV-Vis 1800-Shimadzu	5 mL/2 g	50 (per sample)	250 (per sample)
4.	Programmable High Temperature Furnace (RT to 1400°C)	Pro Fur 1500-City Instruments	5 g	100 (per sample)	500 (per sample)
5.	RF Magnetron-Sputtering System (for preparation of thin films and nanostructures)	RF/DC Sputtering System Scientific & Analysis Instruments	-Targets size 2X2 inch -Substrate size 1X1 cm	400 per set (max. 4 pieces) 300 for additional per piece	2000 per set (max. 4 pieces) 300 for additional per piece
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Dr. Vinayak V. Patil (Incharge UIC -MRU)

TOTAL REVENUE GENERATED BY UIC-MRU IN FY 23-24

Following is the list of users who have availed the UIC facility which led to the generation of **Rs. 49,801.**

XRD User Details from 1 April 2023 to 31 March 2024												
Date	Name	Affiliation	Status	No of samples	Rate(per sample)	Rate(per hour)	Amount	GST	Total Received	Payment mode	Transaction date	Remarks
7/2/2024	Osheen Sharma	MRU (Physics)	Internal	4	140		590	18%	560.18	Online	7/2/2024	8449689802@hdfcbank
7/2/2024	Aditya Sharma	MRU (Physics)	Internal	3	140		495	18%	420.18	Online	7/2/2024	UPI REF NO. -440418605764
7/2/2024	Piyush Mahendra	MRU (ME)	Internal	3	140		496	18%	420.18	Online	8/2/2024	UPI TRANSECTION ID- 403938189710
8/2/2024	Dr. Priti Gupta	MRU (Chemistry)	Internal	4	140		590	18%	560.18	Online	8/2/2024	50796388163
8/2/2024	Pankaj Sharma	MRU (Physics)	Internal	2	140		330	18%	280.18	Online	8/2/2024	REF NO. -440523552120
13/2/2024	Dr. Jitendra Pal Singh	MRU (Physics)	Internal	20	140		1770	18%	2800.18	Online	13/2/2024	REF NO.- 000137902066
13/2/2024	Dr. Jitendra Pal Singh	MRU (Physics)	Internal	5	140		590	18%	700.18	Online	13/2/2024	REF NO. -00014892925
14/2/2024	Dr. Jitendra Pal Singh	MRU (Physics)	Internal	14	140		1180	18%	1960.18	Online	14/2/2024	REF NO. -000179708277
15/2/2024	Dr. Jitendra Pal Singh	MRU (Physics)	Internal	12	140		1180	18%	1680.18	Online	15/2/2024	REF NO. -000119846997
17/2/2024	Dr. Jitendra Pal Singh	MRU (Physics)	Internal	2	140		280	18%	280.18	Online	17/2/2024	REF NO. -00045814055
23/2/2024	Dr. Jitendra Pal Singh	MRU (Physics)	Internal	5	140		500	0%	700	Online	23/2/2024	REF NO.- 000205933848
23/2/2024	Dr. Alpa Gupta	MRU (Dental)	Internal	4	140		560	0%	560	Online	23/2/2024	UPI REF NO. -405457663692
24/2/2024	Dr. Shiv	MRU (Physics)	Internal	2	140		280	0%	280	Online	23/2/2024	UPI REF NO. -405449682556
7/3/2024	Dr. Jitendra Pal Singh	MRU(Physics)	Internal	6	140		500	0%	840	Online	7/3/2024	REF NO.-000378124154
12/3/2024	Ridhima Sharma	MRU (Chemistry)	Internal	1	140		140	0%	140	Online	12/3/2024	Not mentioned
26/3/2024	Dr. Arpit	MRU	Internal	7	140		500	0%	980	Online	26/3/2024	REF NO. - 408613740376
26/3/2024	Dr. Arpit	MRU	Internal	4	140		500	0%	560	Online	26/3/2024	REF NO. -408662019771
27/3/2024	Rakesh Goswami	MRIIRS (EEE,SET)	Internal	21	140		2500	0%	2940	Online	15/3/2024	REF NO. -407513771007
27/3/2024	Dr. Jitendra Pal Singh	MRU(Physics)	Internal	7	140		500	0%	980	Online	27/3/2024	REF NO. -000241526315
			Total samples	126			13481					

FTIR User Details from 1 April 2023 to 31 March 2024

S. No.	Date	Name	Affiliation	Status	No of samples	Rate (per sample)	Amount	GST (18%)	Total Rupee	Payment Mode	Transaction Date	Remark
1	3-Apr-23	Dr. Shilpa Sharma	MRU	Internal	1		118	0	118	Online	3-Apr-23	UPI REF NO: 345937952636
2	21-Apr-23	Monika	MRU	Internal	2		236	0	236	Online	21-Apr-23	Paytm
3	28-Apr-23	Raghav Sharma	MRU	Internal	4		472	0	472	Online	28-Apr-23	UPI REF NO: 311815290834
4	5-May-23	Kirti	MRU	Internal	1		118	0	118	Online	5-May-23	Paytm
5	10-May-23	Dr. Jaya Tuteja	MRU	Internal	7		859	0	859	Online	10-May-23	UPI REF NO: 313024943948
6	11-May-23	Pranjal Tiwari	MRIIRS	Internal	12		1416	0	1416	Online	11-May-23	Order No. 21017106203
7	30-May-23	Prince Bansal	MRIIRS	Internal	6		708	0	708	Online	30-May-23	Ref. ID. 351611838639
8	2-Jun-23	Kriti	MRU	Internal	2		236	0	236	Online	1-Jun-23	UPI
9	9-Jun-23	Jyoti	MRU	Internal	1		118	0	118	Online	5-Jun-23	Transaction No: UA0545419800
10	9-Jun-23	Ritika	MRU	Internal	1		118	0	118	Online	9-Jun-23	
11	12-Jun-23	Ridhima Sharma	MRU	Internal	2		236	0	236	Online	12-Jun-23	Ref ID: 316327574721
12	21-Jun-23	Anjali	MRU	Internal	5		590	0	590	Online	21-Jun-23	Ref No: MB21134834241ET4287678
13	28-Jun-23	Swasti Verma	MRIIRS	Internal	2		236	0	236	Online	28-Jun-23	UPI ID: 354592010899
14	19-Aug-23	Rakesh Goswami	MRIIRS	Internal	10		1180	0	1180	Online	19-Aug-23	Transaction ID: 323111561974
15	29-Aug-23	Ritu Bisht	MRU	Internal	4		472	0	472	Online	29-Aug-23	Transaction ID: 324175283929
16	26-Sep-23	Mufeed	MRU	Internal	1		118	0	118	Online	26-Sep-23	Paytm
17	29-Sep-23	Swasti Verma	MRIIRS	Internal	2		236	0	236	Online	29-Sep-23	UPI ID: 363872640847
18	6-Nov-23	Pooja	MRU	Internal	15		1500	0	1500	Online	6-Jan-23	TID: SBA00000017312453
19	16-Jan-24	Shourya Chauhan	MRIIRS	Internal	2		236	0	236	Online	16-Jan-24	Transaction ID: 240160578113
20	2-Feb-24	Dr. Jitendra Pal	MRU	Internal	4		472	0	472	Online	2-Feb-24	Transaction ID MB02155948237ET9126651
21	14-Feb-24	Sheela	MRIIRS	Internal	3		330	0	330	Online	14-Feb-24	Recipet No: 7CCWMA4R6980
22	15-Feb-24	Dr. Jitendra Pal	MRU	Internal	34		3400	0	3400	Online	16-Feb-24	UTR No: 000164669619
23	16-Feb-24	Anjali	MRU	Internal	6		708	0	708	Online	15-Feb-24	UTR No:000119792032
24	17-Mar-24	Dr. Jitendra Pal	MRU	Internal	7		700	0	700	Online	27-Mar-24	Ref No./Transaction ID
				Total	134		14813					

UV Users Detail from 1 April 2023 to 1 March 2024

S.No	Date	Name	Affiliation	Status	No of Sample Amount	Rate (per sample)	Amount	GST (18%)	Total Rupee	Payment Mode	Transaction Date	Reference No/Transaction ID
1	5/1/2023	Monika	MRU	Internal	1	50	59	0	59	Online	1-May-23	REF NO:IRW0977469
2	5/9/2023	Ankit	MRU	Internal	8	50	472	0	472	Online	9-May-23	UPI REF. NO: 312913436041
3	5/12/2023	Anjali	MRU	Internal	1	50	177	0	177	Online	12-May-23	REF NO: MB12145535657T33217976
4	5/15/2023	Raghav Sharma			3	50	400	0	400	Online	4-May-23	UPI REF. NO:312412834330
5	5/24/2023	Pranjal	MRU	Internal	6	50	354	0	354	Online	25-May-23	UPI REF NO: 312412834330
6	6/21/2023	Anjali	MRU	Internal	7	50	417	0	417	Online	21-Jun-23	REF. NO :MB21134657411T32235886
7	6/26/2023	Giamender Kajal	Giamender Kajal and MRII	Internal	2	50	118	0	118	Online	26-Jun-23	UPI REF.NO: T23062610217215513300858
8	6/28/2023	Dr. Bhawna Raj	Shree Bankey Bihari College and Research centre, Ghaziabad	External	2	250	590	18%	590	Online	28-Jun-23	UPI REF. NO:354512666520
9	9/20/2023	Jyoti	MRU	Internal	1	50	59	0	59	Online	20-Sep-23	UPI REF.NO:UA0562136172
10	12/5/2023	Dr. Priti Gupta	MRU	Internal	2	50	118	0	118	Online	5-Dec-23	UPI REF. NO: 370519230669
11	2/15/2024	Anjali	MRU	Internal	3	50	177	0	177	Online	15-Feb-24	UPI REF.NO: 000119800396
				TOTAL	36		2941					

GCMS User Details from 1 April 2023 to 31 March 2024

S.No.	Date	Name	Affiliation	Internal /External	No of samples	Amount Paid (Rs)	GST (18%)	Total Rupee	Payment Mode	Transaction Date	Remark
1	23/03/2023	Dr. Alpa Gupta	MRDC	Internal	1	283	0	283	Online	23-Mar-23	T2303231453482277793407
2	23/03/2023	Dr. Sakshi Kundu	MRDC	Internal	1	283	0	283	Online	23-Mar-23	344839704720
3	28/04/2023	Nehal	Thapar University	External	6	8496	1296	8496	Online	28-Apr-23	311802715478
4	30/05/2023	Shefali Upadhyay	YMCA	External	1	1416	216	1416	Online	25-May-23	314522308436
5	10/8/2023	Dr. Alpa Gupta	MRDC	Internal	1	283	0	283	Online	10-Aug-23	322265788490
6	17/08/2023	Priti	MRIRS	Internal	1	590	0	590	Online	15-May-23	Not mentioned
7	30/09/2023	Swasti Verma	MRIIRS	Internal	2	567	0	567	Online	30-Sep-23	327311378463
8	26/12/2023	Shefali Upadhyay	YMCA	External	3	4248	0	4248	Online	26-Dec-23	336016356598
9	21/02/2024	Eksha Guliani	MRU	Internal	2	480	0	480	Online	23-Feb-23	405478932632
10	23/02/2024	Eksha Guliani	MRU	Internal	1	240	0	240	Online	23-Feb-23	405478990081
11	27/02/2024	Eksha Guliani	MRU	Internal	1	480	0	480	Online	27-Feb-23	405812462512
12	19/03/2024	Jitendra Pal Singh	Others	Internal	3	720	0	720	Online	19-Mar-23	MB19091515830ET3440509
13	28/03/2024	Eksha Guliani	MRU	Internal	1	480	0	480	Online	28-Mar-24	408834158175
				Total	24	18566					

TOTAL REVENUE GENERATED BY UIC-MRU IN FY 24-25

Following is the list of users who have availed the UIC facility which led to the generation of Rs. 1,11,283.

XRD User Details from 1 April 2024 to 31 March 2025

S.No.	Name	Affiliation	Status	Instrument Used	No of samples	Amount	GST	Total Received	Payment mode	Reference Number	Transaction date
1	Anju Sharma	MRU	Internal	XRD	1	140	0	140	Online	433724036200	2/12/2024
2	Jitendra Pal Singh	MRU	Internal	XRD	2	280	0	280	Online	422921983117	3/7/2024
3	Dr. Anshuman Sahai	MRU	Internal	XRD	8	1120	0	1120	Online	415776183803.00	5/6/2024
4	Rakesh Goswami	MRIIRS	Internal	XRD	29	4000	0	4000	Online	415912315388.00	6/7/2024
5	Priyanka	MRU	Internal	XRD	4	500	0	500	Online	425076099777	6/9/2024
6	Dr. Anupama	MRIIRS	Internal	XRD	1	140	0	140	Online	409928716490.00	8/4/2024
7	Sheela Chaudhary	MRIIRS	Internal	XRD	6	500	0	500	Online	412913664624.00	8/5/2024
8	Jalaj Garg	MRIIRS	Internal	XRD	2	280	0	280	Online	421512062753, 459111517072	12/8/2024
9	Jitendra Pal Singh	MRU	Internal	XRD	2	280	0	280	Online	MB01093704546T26356546	1/3/2025
10	Bhawna	MRU	Internal	XRD	1	140	0	140	Online	500312157945	3/1/2025
11	Sheela Choudhary	MRIIRS	Internal	XRD	2	280	0	280	Online	506309676146.00	4/3/2025
12	Ankit Sharma	KR Mangalam University	External	XRD	1	700	126	826	Online	503684817730.00	5/2/2025
13	Osheen	MRU	Internal	XRD	4	500	0	500	Online	185220612917	6/3/2025
14	Eksha Guliani	MRU	Internal	XRD	2	280	0	280	Online	500784478701	7/1/2025
15	Anju Sharma	MRU	Internal	XRD	1	140	0	140	Online	500791269369	7/1/2025
16	Jitendra Pal Singh	MRU	Internal	XRD	16	2000	0	2000	Online	MB11115301413T26280105	11/2/2025
18	Bhawna	MRU	Internal	XRD	1	140	0	140	Online	504311345463	12/2/2025
17	Archit Sharma	MRU	Internal	XRD	2	280	0	280	Online	504373752385	12/2/2025
18	Eurofins	Industry	External	XRD				10030	Online	412113274734.00	13/12/2024
19	Jitendra Pal Singh	MRU	Internal	XRD	2	280	0	280	Online	MB14153027060T10243482	14/8/2024
20	Dr. Ekta Rawat	MRU	Internal	XRD	4	440	0	440	Online	410424157365.00	15/4/2024
21	Jitendra Pal Singh	MRU	Internal	XRD	3	500	0	500	Online	MB19155558003ET6429393	19/6/2024
22	Priya Garg	MRU	Internal	XRD	3	420	0	420	Online	420481643265	22/7/2024
23	Swati Gambhir	MRU	Internal	XRD	20	1400	0	1400	Online	433082747107	25/11/2024
24	Jitendra Pal Singh	MRU	Internal	XRD	5	500	0	500	Online	MB26123623956T40268906	26/12/2024
26	Ridhima	MRU	Internal	XRD	4	500	0	500	Online	411756851166	26/4/2024
27	Jitendra Pal Singh	MRU	Internal	XRD	1	140	0	140	Online	MB27132411719T26134096	27/5/2024
			Total samples		127			26036			

FTIR User Details from 1 April 2024 to 31 March 2025

S.No.	Name	Affiliation	Status	Instrument Used	No of samples	Amount	GST	Total Received	Payment mode	Reference Number	Transaction date
1	Anju Sharma	MRU	Internal	FTIR	6	600	0	600	Online	445810315632	1/4/2024
2	Ridhima	MRU	Internal	FTIR	3	300	0	300	Online	T24040114284805656200503	1/4/2024
3	Eknoor	MRIIRS	Internal	FTIR	2	200	0	200	Online	421598189844.00	2/8/2024
4	Anju Sharma	MRU	Internal	FTIR	1	100	0	100	Online	433724036200	2/12/2024
5	Yogeeta	MRU	Internal	FTIR	1	100	0	100	Online	409620199487.00	5/4/2024
6	Prateeksha	MRIIRS	Internal	FTIR	1	100	0	100	Online	412717608591.00	6/5/2024
7	Jitendra Pal Singh	MRU	Internal	FTIR	4	400	0	400	Online	MB06142152120T41249508	6/6/2024
8	Rakesh Goswami	MRIIRS	Internal	FTIR	38	2400	0	2400	Online	415912315388.00	6/7/2024
9	Priyanka	MRU	Internal	FTIR	4	400	0	400	Online	425076099777	6/9/2024
10	Sheela Chaudhary	MRIIRS	Internal	FTIR	2	200	0	200	Online	412913664624.00	8/5/2024
11	Payal	MRU	Internal	FTIR	4	400	0	400	Online	410167005936.00	10/4/2024
13	Dr. Jitendra Pal Singh	MRU	Internal	FTIR	4	400	0	400	Online	MB10154147196T25416386	10/5/2024
12	Vanshika Sharma	MRU	Internal	FTIR	2	200	0	200	Online	T2405101256141826613403	10/5/2024
15	Bindu Mangla	YMCA	External	FTIR	5	2500	450	2950	Online	452984077204.00	11/6/2024
14	Dr. Vinayak V. Pathak	MRU	Internal	FTIR	8	800	0	800	Online	416324251816.00	11/6/2024
16	Mukul	MRU	Internal	FTIR	5	500	0	500	Online	410353720076.00	12/4/2024
17	Bhawna	MRU	Internal	FTIR	1	100	0	100	Online	500312157945	3/1/2025
18	Kriti Singhal	MRIIRS	Internal	FTIR	8	800	0	800	Online	137410096514	6/3/2025
19	Anju Sharma	MRU	Internal	FTIR	1	100	0	100	Online	500791269369	7/1/2025
20	Latanshi Chandela	MRU	Internal	FTIR	1	100	0	100	Online	537524822916	9/1/2025
21	Jitendra Pal Singh	MRU	Internal	FTIR	15	1500	0	1500	Online	MB11115301413T26280105	11/2/2025
22	Archit Sharma	MRU	Internal	FTIR	2	200	0	200	Online	504373752385	12/2/2025
23	Bhawna	MRU	Internal	FTIR	1	100	0	100	Online	504311345463	12/2/2025
24	Kriti Singhal	MRIIRS	Internal	FTIR	7	700	0	700	Online	339019528416	13/12/24
25	Kriti Singhal	MRIIRS	Internal	FTIR	8	800	0	800	Online	579786704813	13/12/24
26	Dr. Ekta Rawat	MRU	Internal	FTIR	4	400	0	400	Online	410424157365.00	15/4/24
27	Archit Sharma	MRU	Internal	FTIR	1	100	0	100	Online	505013214625	19/2/25
28	Priyanka	MRU	Internal	FTIR	2	200	0	200	Online	411045773532.00	19/4/24
29	Swati Gambhir	MRU	Internal	FTIR	10	500	0	500	Online	432737134782	22/11/24
30	Vanshika	MRU	Internal	FTIR	1	100	0	100	Online	411347194890.00	22/4/24
31	Anju Sharma	MRU	Internal	FTIR	1	100	0	100	Online	417630591050.00	24/06/24
32	Sheela Choudhary	MRIIRS	Internal	FTIR	2	200	0	200	Online	505610631770.00	25/2/25
33	Jitendra Pal Singh	MRU	Internal	FTIR	5	500	0	500	Online	MB26123623956T40268906	26/12/24
34	Bhavna Tandon	MRU	Internal	FTIR	5	500	0	500	Online	102068084120	26/3/2025
35	Neha	MRU	Internal	FTIR	18	900	0	900	Online	88846060067	27/3/2025
36	Anju Sharma	MRU	Internal	FTIR	1	100	0	100	Online	421285643101.00	30/07/24
			Total samples		178			18050			

UV User Details from 1 April 2024 to 31 March 2025

S.No.	Name	Affiliation	Status	Instrument Used	No of samples	Amount	GST	Total Received	Payment mode	Reference Number	Transaction date
1	Toni Lego	MRIIRS	Internal	UV	3	150	0	150	Online	458271168568.00	3/8/2024
2	Rakesh Goswami	MRIIRS	Internal	UV	20	500	0	500	Online	415912315388.00	6/7/2024
3	Priyanka	MRU	Internal	UV	4	200	0	200	Online	425076099777	6/9/2024
4	Cheshta Barawanal	MRU	Internal	UV	3	150	0	150	Online	449409442898.00	7/5/2024
5	Eksha Guliani	MRU	Internal	UV	4	200	0	200	Online	422172399015.00	8/8/2024
6	Ridhima	MRU	Internal	UV	4	200	0	200	Online	410197425281.00	10/4/2024
7	Vinod Singh	MRU	Internal	UV	5	250	0	250	Online	410263244573.00	11/4/2024
9	Mukul	MRU	Internal	UV	5	250	0	250	Online	410353720076.00	12/4/2024
8	Vinod Singh	MRU	Internal	UV	10	500	0	500	Online	410340985318.00	12/4/2024
10	Jalaj Garg	MRIIRS	Internal	UV	2	100	0	100	Online	421512062753, 459111517072	12/8/2024
11	Bhawna Raj	Shree Bankey Bihari Dental College and Research Centre	External	UV	1	125	22.5	148	Online	503214780550	1/2/2025
12	Bhawna Raj	Shree Bankey Bihari Dental College and Research Centre	External	UV	15	1875	337.5	2213	Online	503214780550	1/2/2025
13	Toni Lego	MRIIRS	Internal	UV	10	250	0	250	Online	100861743740.00	3/3/2025
14	Toni Lego	MRIIRS	Internal	UV	10	250	0	250	Online	100910366313.00	4/3/2025
15	Eksha Guliani	MRU	Internal	UV	20	500	0	500	Online	500784478701	7/1/2025
16	Latanshi Chandela	MRU	Internal	UV	1	50	0	50	Online	537524822916	9/1/2025
17	Jitendra Pal Singh	MRU	Internal	UV	14	700	0	700	Online	MB11115301413T26280105	11/2/2025
18	Toni Lego	MRIIRS	Internal	UV	20	500	0	500	Online	434856662449.00	13/12/24
19	Vinod Singh	MRU	Internal	UV	10	500	0	500	Online	410497808618.00	13/4/24
20	Yogita	MRU	Internal	UV	1	50	0	50	Online	450108664614	14/5/2024
21	Toni Lego	MRIIRS	Internal	UV	4	200	0	200	Online	420084040090.00	18/07/24
22	Toni Lego	MRIIRS	Internal	UV	10	250	0	250	Online	50507676538.00	19/2/25
23	Priyanka	MRU	Internal	UV	2	100	0	100	Online	411045773532.00	19/4/24
24	Ridhima Shama	MRU	Internal	UV	4	200	0	200	Online	414276230467	21/5/2024
25	Vanshika	MRU	Internal	UV	1	50	0	50	Online	411347194890.00	22/4/24
26	Neha	MRU	Internal	UV	7	350	0	350	Online	292482052400	24/10/24
28	Bhawna	MRU	Internal	UV	2	100	0	100	Online	T2502251536304153427402	25/2/25
27	Toni Lego	MRIIRS	Internal	UV	10	250	0	250	Online	542250635573.00	25/2/25
29	Jitendra Pal Singh	MRU	Internal	UV	5	250	0	250	Online	MB26123623956T40268906	26/12/24
30	Toni Lego	MRIIRS	Internal	UV	14	350	0	350	Online	505868195653.00	27/2/25
			Total samples		162			9761			

GCMS User Details from 1 April 2024 to 31 March 2025

S.No.	Name	Affiliation	Status	Instrument Used	No of samples	Amount	GST	Total Received	Payment mode	Reference Number	Transaction date
1	Yash Sharma	MRU	Internal	GCMS	2	480	0	480	Online	412419192677.00	3/5/2024
2	Cheshta Barawanal	MRU	Internal	GCMS	2	480	0	480	Online	449409442898.00	7/5/2024
3	Eksha Guliani	MRU	Internal	GCMS	2	480	0	480	Online	T2408080942263751428997	8/8/2024
4	Mukul	MRU	Internal	GCMS	6	1440	0	1440	Online	410353720076.00	12/4/2024
5	Karan Sharma	Jamia Hamdard U	External	GCMS	10	6000	1080	7080	Online	506569905387.00	6/3/2025
6	Eksha Guliani	MRU	Internal	GCMS	5	1200	0	1200	Online	465400489544	14/10/24
7	Eksha Guliani	MRU	Internal	GCMS	2	480	0	480	Online	413513799175	14/5/2024
8	Ridhima Sharma	MRU	Internal	GC-MS	1	240	0	240	Online	413852356512	17/5/2024
9	Karan Sharma	Jamia Hamdard University	External	GCMS	12	7200	1296	8496	Online	466111094185	21/10/24
10	Eksha Guliani	MRU	Internal	GCMS	2	480	0	480	Online	426965672058	25/09/24
			Total samples		44			20856			

RF Sputtering User Details from 1 April 2024 to 31 March 2025

S.No.	Name	Affiliation	Status	Instrument Used	No of samples	Amount	GST	Total Received	Payment mode	Reference Number	Transaction date
1	Chandrima Saha	Shree Bankey Bihari Dental College and Research Centre	External	RF Sputtering	4	4000	720	4720	Online	503261388682	1/2/2025
2	Chandrima Saha	Shree Bankey Bihari Dental College and Research Centre	External	RF Sputtering	27	27000	4860	31860	Online	503934833215	8/2/2025
			Total samples		31			36580			

