



# SGT UNIVERSITY

SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY  
(UGC Approved) Gurugram, Delhi-NCR

Budhera, Gurugram-Badli Road, Gurugram (Haryana) – 122505 Ph. : 0124-2278183, 2278184, 2278185

**One Day Industrial Visit**

***for the students of***

**MSc. Chemistry and Environmental Science (1<sup>st</sup>  
Sem) and B.Sc N.M. (5th Sem)**

**(2022 & 2020 Batch)**

***at***

**Anton Paar, 582, Udyog Vihar, Phase V,  
Gurugram, 122001**

**02 Dec 2022**



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## **One Day Industrial Visit for the students of**

**MSc. (1<sup>st</sup> Sem) and B.Sc (5<sup>th</sup> Sem)**

**(2022 & 2020 Batch) At**

**Anton Paar, 582, Udyog Vihar, Phase V, Gurugram-122001**

**Organised by**

**Lavoisier Association, Department of Chemistry, Faculty of Science, SGT University**

**02 December -2022**

**Organizers:** Lavoisier Association, Department of Chemistry, Faculty of Science, SGT University.

### **Report of the Program:**

**Introduction:** The industrial visit has been specifically arranged to impart the skills of impart the skills of characterization techniques and examination of samples in laboratory. The students have been accompanied with Dr. Jyoti (Assistant Professor, Dept. of Chemistry, Faculty of Science, SGT University) and Dr. Kamlesh Sharma (Associate Professor, Dept. of Chemistry, Faculty of Science, SGT University) for the discipline and proper accomplishment of the industrial visit.



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**Objective of the Event:** To let students gain hands-on practical knowledge about a range of analytical instruments and their operation and the corresponding techniques.

## **Brief content of event:**

The students were first given a brief introductory talk by Dr. Rishi about the general analytical techniques being used in their laboratory. He explained the working principles and applications of the various analytical techniques and instruments such as Gas Chromatography (GC), High performance Liquid Chromatography (HPLC) and Atomic Absorption Spectroscopy (AAS) used by them through a power-point presentation.

After the brief overview the students were taken to different laboratories for live demonstration of the instruments. They were instructed about the preparation of samples and measurements were made practically in front of them. The students were shown the components of each instrument and their functioning was explained. Then, the prepared samples were subjected to recording of data and results were obtained. A large number of unconventional instruments, which are usually uncommon in universities and research institutes were shown to the students. Some of them are listed as follows:

1. Density Meter
2. Adsorption Analyzer
3. Atomic Force Microscope
4. Nanoparticle Indentation Tester
5. Particle Size Analyzers
6. Porometer
7. Rheometer
8. BET
9. Zeta Potential Analyzer
10. Viscometer

- Students have learned about the instrumentation, working, principle, software knowledge, applications and operating mode of the above-mentioned instruments
- Students have also learned the importance of analytical techniques in research, job, and higher education at Anton Paar, 582, Udyog Vihar, Phase V, Gurgaon 122001. Students have gained practical and theoretical knowledge enthusiastically.

## **Glimpses of training programm:**



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**Image 1: Dr. Rishi Gupta giving a brief knowledge about various instrumentation techniques**



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**Image 2: Dr Mayank explaining the working of a Rheometer**



**Image 3: Dr Ankit demonstrating the Hardness and scratch testing instrument**



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**Image 4: Student learning surface area measurement for different type of materials using BET method**



**Image 5: Students and faculty members for a group photo in the office at the Anton Paar, Gurugram.**



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The visit was very fruitful for students as they gained practical knowledge about a range of analytical instruments and their operations. The gained knowledge will significantly help them in their research assignments.

**A total of 28 students of 1<sup>st</sup> year M.Sc. Chemistry and Environmental Science & 3<sup>rd</sup> year B.Sc. Non-medical attended this industrial training program and got practical experience of handling and operating analytical instruments. Overall, the training program was conducted in a very smooth and organized manner and it proved to be an informative experience.**

**Thank you**

**One- Day Industrail visit to  
Anton Paar, 582, Udyog Vihar, Phase V, Gurugram-122001  
Organised by**

Lavoisier Association, Department of Chemistry, under the aegis of ACS International Student Chapter,  
SGTU

Academic Year: 2022-2023

Date of Event: Dec 02, 2022

Sr. No.	Registration Number	Name of Participant	Class	Remarks
1	221709001	Harshita	M.Sc -1(EVS)	P
2	221709002	Naman	M.Sc -1(EVS)	P
3	221709003	Tarun	M.Sc -1(EVS)	P
4	221709004	Apurva	M.Sc -1(EVS)	P
5	221709005	Vandana Sharma	M.Sc -1(EVS)	P
6	221709006	Sudesh	M.Sc -1(EVS)	P
7	221706001	Nishi Gautam	M.Sc -1 (Chemistry)	P
8	221706002	Sejal	M.Sc -1(Chemistry)	P
9	221706003	Nidhi Sharma	M.Sc -1(Chemistry)	P
10	221706004	Mansi Sehrawat	M.Sc -1(Chemistry)	P
11	221706005	Shivani Yadav	M.Sc -1(Chemistry)	P
12	221706006	Bharti	M.Sc -1(Chemistry)	P
13	221706007	Payal	M.Sc -1(Chemistry)	P
14	221706008	Shubhika Goyal	M.Sc -1(Chemistry)	P
15	221706009	Yogita	M.Sc -1(Chemistry)	P
16	221706010	Siya	M.Sc -1(Chemistry)	P
17	221706011	Nikita Rathee	M.Sc -1(Chemistry)	P



18	221706012	Preeti	M.Sc -1(Chemistry)	P
19	221706013	Vinita Yadav	M.Sc -1(Chemistry)	P
21	221706014	Poonam Yadav	M.Sc -1(Chemistry)	P
22	221706015	Asma	M.Sc -1(Chemistry)	P
23	221706016	Dolly	M.Sc -1(Chemistry)	Absent
24	221706017	Jyoti Sharma	M.Sc -1(Chemistry)	P
25	221706018	Meenal Dalal	M.Sc -1(Chemistry)	P
26	221706019	Varsha	M.Sc -1(Chemistry)	P
27	221706020	Rahul Chauhan	M.Sc -1(Chemistry)	P
28	201703004	Lokesh	B.Sc -3 (Non Medical)	P
29	201703004	Swin Gulia	B.Sc -3 (Non Medical)	P

*Navjot K*

Dr. Navjot Kaur

Name & Signature of Event Coordinator

*Dr. Kamlesh Sharma*

Dr. Kamlesh Sharma.



FACULTY OF SCIENCE

D/Vc/2700  
11/12/22

Ref. No: SGTU/FOSC/2022/1229

Dated: 30/11/2022

To  
The Registrar  
SGT University  
Gurugram

(Through Proper Channel)

Subject: Permission to organize Industrial Visit at Anton Paar India Pvt Ltd., Gurugram.

Respected Sir,

It is for your kind information that the Lavoisier's Association, Department of Chemistry, & ACS student chapter has arranged one day industrial visit of the UG & PG students at Anton Paar India Pvt Ltd 582, Udyog Vihar, Phase - V, Sector 19, Gurugram. The permission from Anton Paar India Pvt Ltd has already been taken, and the same has been scheduled on 02.12.2022 (for B.Sc 5<sup>th</sup> semester, 5 students and M.Sc 1<sup>st</sup> semester, 25 Students( Chemistry and Environment). Therefore, it is requested to allow us for the same and also provide the university bus service. The students will be accompanied by the following faculty/staff members during the visit.

1. Dr. Nutan Sharma, Associate Professor
2. Dr. Jyoti Pandey, Assistant Professor

Bus timings :- 9.15 am - 3.00 pm

Submitted for your kind approval.

Kindly allow us for the visit

With Regards,

*Navjot*  
30/11/22

Dr. Navjot Kaur  
Advisor  
Lavoisier's Association  
Department of Chemistry  
Faculty of Science

*The request may be considered & approved please.*  
*Dean will ensure that bus reaches back campus by 3 PM.*  
*Approved as proposed*  
30/11/22  
30/11/22

- The accepted mail attached with this letter for your kind reference.

Dear Fosc

*[Signature]*  
11/12/22  
Registrar  
SGT University,  
Budhera, Gurugram

*Forward to Registrar SGTU  
Kindly consider Sir*

*[Signature]*  
30/11/2022  
DEAN  
Faculty of Science  
SGT University  
Budhera, Gurugram



## Fwd: Regarding Industry Visit

Head IARC <head.iarc.fosc@sgtuniversity.org>  
To: PA PHYSICALSC <PA.PHYSICALSC@sgtuniversity.org>

Mon, Nov 28, 2022 at 3:04 PM

----- Forwarded message -----

From: **Gupta, Rishi** <rishi.gupta@anton-paar.com>  
Date: Wed, 16 Nov, 2022, 4:14 pm  
Subject: Fwd: Regarding Industry Visit  
To: Head IARC <head.iarc.fosc@sgtuniversity.org>, Head. chemistry <hod.chemistry.fosc@sgtuniversity.org>  
Cc: Prabhakar, Nitin <nitin.prabhakar@anton-paar.com>, Singhal, Paridhi <paridhi.singhal@anton-paar.com>, Varshney, Mayank <mayank.varshney@anton-paar.com>

Dear Madam,

We acknowledge the receipt of your mail and confirm that the proposed dates are OK to us. Please confirm the timings, so that we also book our slots accordingly.

Looking forward to greet you in Anton Paar.

@Varshney, Mayank: Please book your calendar for the same.

Best regards

**Dr. Rishi Gupta**  
Application Specialist  
Characterisation Division

**Anton Paar India Pvt. Ltd.**  
582, Phase V  
Udyog Vihar Industrial Area  
Gurgaon – 122016 (Haryana)  
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[www.anton-paar.com](http://www.anton-paar.com)

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—  
**Great people, great instruments**  
—

From: Head IARC <head.iarc.fosc@sgtuniversity.org>  
Sent: Wednesday, November 16, 2022 4:06 PM  
To: Gupta, Rishi <rishi.gupta@anton-paar.com>  
Cc: Head. chemistry <hod.chemistry.fosc@sgtuniversity.org>

**Subject:** [SUSPECTED SPAM]Fwd: Regarding Industry Visit

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear sir

As per our telephonic conversation, I wish to inform you that 2nd Dec. 2022 will be suitable for us for an industry visit to Anton Paar. There will be around 25 students and 2 faculty members with them.

You are requested to confirm the date through a reply on this email.

regards

Dr. Nutan Sharma (SERB-TARE Fellow)

Associate Professor

Head, Industry Academia Relationship Centre (IARC)

Faculty of Science

SGT University