



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, 3rd Semester) and MSc.
(Environmental Science, 1st Semester)**

(2021 & 2022 Batch)

at

**the Translational Health Science and
Technology Institute (THSTI), Faridabad**

20 Oct 2022



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

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 characterization techniques and examination of real samples for the drug delivery. The students have been accompanied with Dr. Nutan (Associate Professor & SERB- TARE fellow and Dr. Navjot Kaur, Advisor, Lavoisier's Association for the discipline and proper accomplishment of the industrial visit.



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Objective of the Event: To let students understand and gain hands-on practical knowledge of drug development starting from the synthesis, purification, and characterization.

Brief content of event:

The students were first given a brief introductory talk by Dr. Dinesh Mahajan, Principal Scientist-II about the general analytical techniques being used in for their work. He explained the working principles of the different instruments used by them and their applications in measurement of a range of parameters. After that, the group visited following divisions of THSTI and the senior scientists from different division of THSTI interacted with our students:

- **Chemistry Division:** Dr. Dinesh Mahajan, Principal Scientist-II explained the complete process of drug development starting from the synthesis, purification, and characterization and so on.
- **Computational Drug Discovery Division:** Dr. Shailendra Asthana, Principal Scientist-I, explained the importance of computational techniques in drug discovery and design, and made them abreast with use of different softwares like Spartan, Gaussian, Gauss View etc.
- **Mass Spectroscopy in Proteomics Division:** Dr Amit Kumar Yadav, Senior Research Scientist, demonstrated the procedure of determination of the molecular weight of different chemical compounds with the help of Mass spectroscopy.
- **LC-MS Facility Division:** Dr. Yashwant Kumar, Senior Research Scientist, explained the methods of molecular weight interpretation of chemical compounds.



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Glimpses of training programm:



Image 1:- Students along with the faculty members at the THSTI, Faridabad premises.



Image 2:- Interaction with Dr. Shailendra Asthana, Principal Scientist-I, THSTI, Faridabad.



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Image 3:- Interaction with Dr. Amit Kumar Yadav, Senior Research Scientist, THSTI, Faridabad.



Image 4:- Demonstration on the usage of Mass spectrometry by Dr. Yashwant Kumar, Senior Research Scientist, THSTI, Faridabad.



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Image 5:- Interaction with Dr. Dinesh Mahajan, Principal Scientist-II, THSTI, Faridabad.



Image 6:- Demonstration of drug development by Dr. Dinesh Mahajan, Principal Scientist-II, THSTI, Faridabad.



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A total of 16 students of M.Sc. Chemistry 3rd Semester and 5 students of MSc. (Environmental Science, 1st Semester) on 20 October 2022 attended this industrial training program and got practical experience of handling and operating analytical instruments and also learned the mechanism of drug delivery. There was an elaborate explanation and live demonstration by the experts regarding drug development starting from the synthesis, purification, and characterization.

On the whole the tour remained very informative, full of learning and enjoyable for all the students.

Thank you



D/V/C/2402
18/10/22

R-323
18/10/22

Faculty of Science

Dated: 18-10-2022

Ref. No.: SGTU/FOSC/2022/1206

Request may be considered & approved if the Dean is requested to ensure that bus will reach back at campus by 3:15 pm.

To
The Registrar
SGT University
Gurugram
(Through Proper Channel)

Approved
18/10/22

Subject: Permission to Organize Research Lab Visit at Translational Health Science and Technology Institute (THSTI), Faridabad.

Registrar
Dean. Science
19/10/22
Registrar
SGT University,
Budhera, Gurugram

Respected Sir,

It is for your kind information that the Lavoisier's Association, Department of Chemistry & ACS Student Chapter has arranged one-day visit of the PG students at Translational Health Science and Technology Institute (THSTI), Faridabad. The permission from THSTI, Faridabad has already been taken, and the same has been scheduled on 20.10.2022 (for M.Sc 3rd semester, 18 Students). Therefore, it is requested to allow us for the same and provide the university bus service [One bus with seating capacity of 25]. The students will be accompanied by the following faculty members during the visit.

1. Dr. Nutan Sharma, Associate Professor
 2. Dr. Navjot Kaur, Assistant Professor
- Submitted for your kind approval.

Permission from the THSTI received yesterday only.
Kindly allow us for the same.

18/10/22
Head
Department of Chemistry
Faculty of Science
SGT University, Budhera, Gurugram

With Regards,

Navjot 18/10/22
Dr. Navjot Kaur
Advisor
Lavoisier's Association & ACS Student Chapter
Department of Chemistry
Faculty of Science

(The bus will be leave the campus at 9:30 am & reach the campus by 3:30 pm)
Tour time 9:30 AM to 3:30 PM

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

kindly consider this to the Registrar Sir

Jall
18/10/2022
DEAN
Faculty of Science
SGT University
Budhera, Gurugram



Fwd: Regarding Lab Visit in THSTI

1 message

NUTAN SHARMA <nutansharma_fps@sgtuniversity.org>
To: Head. chemistry <hod.chemistry.fosc@sgtuniversity.org>

Mon, 17 Oct, 2022 at 4:40 pm

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

From: **Soma Patnaik** <soma@thsti.res.in>
Date: Mon, 17 Oct, 2022, 4:27 pm
Subject: Re: Regarding Lab Visit in THSTI
To: NUTAN SHARMA <nutansharma_fps@sgtuniversity.org>
Cc: Dean FOsc <dean.fosc@sgtuniversity.org>, M.V. Santo <santo@thsti.res.in>, Dinesh Mahajan <dinesh.mahajan@thsti.res.in>

Dear Dr. Sharma,

PFB the schedule for the requested visit of MSc students:

Facility	PI	Visit Time
Chemistry Lab	Dr Dinesh Mahajan	11.15 AM
Computational Drug Discovery	Dr. Shailendra Asthana	11.30 AM
Mass Spectroscopy in Proteomics	Dr. Amit Kumar Yadav	11.45 AM
LC-MS Facility	Dr Yashwant Kumar	12.00 PM

I shall let you know if there is any change in the schedule.

Also, find attached the draft of the MoU for the Science Setu. Under this scheme, there will be a myriad of opportunities for both sides to engage in scientific endeavours. For any concerns, you may write to me. If the terms are agreeable, you are requested to take out the print of the MoU on a Rs 100 Stamp paper, execute the same at your end and send the same to us via email for requisite signatures at THSTI. In addition, you are requested to send two original copies of the signed MoU to us by post/courier. We will sign the same at our end and send one copy of the fully executed MoU to you for your records.

Warm regards
Soma Patnaik, PhD
Senior Technical Officer (Scientific Communications & IPR)
Translational Health Science and Technology Institute (THSTI)
Phone No. 0129-2876299

On Fri, Oct 14, 2022 at 3:13 PM NUTAN SHARMA <nutansharma_fps@sgtuniversity.org> wrote:

Dear Madam

As per our discussion regarding lab visit, I would like to inform you that we have around 20 M.Sc. Chemistry students. Keeping their area of interest in mind we would like to visit the Organic chemistry and Computational chemistry labs in THSTI.

I will be thankful if we can plan it on 20th or 21st Oct 2022.

You are also requested to share the MOU template as per Science Setu Program.

regards
Dr. Nutan Sharma, (SERB-TARE Fellow)
Associate Professor
Department of Chemistry
Faculty of Science
SGT University, Gurugram

On Wed, Oct 12, 2022 at 1:45 PM Soma Patnaik <soma@thsti.res.in> wrote:

Dear Dr. Sharma,

Kindly call me on the landline 0129-2876299 or on my mobile No. 9891308868. We can discuss this further telephonically to understand the modalities of the visit.

Warm regards

Soma Patnaik, PhD

Senior Technical Officer (Scientific Communications & IPR)

Translational Health Science and Technology Institute (THSTI)

Phone No. 0129-2876299

On Wed, Oct 12, 2022 at 1:24 PM NUTAN SHARMA <nutansharma_fps@sgtuniversity.org> wrote:

Dear Madam

Myself Dr. Nutan Sharma, working as Associate Professor in Faculty of Science, SGT University and a SERB-TARE Visiting Scientist in THSTI under the mentorship of Dr. Dinesh Mahajan. As THSTI being one of the premier institutes of research, I am willing to give an exposure of research to our PG students through Lab visit. Please guide me in this regard.

regards

Dr. Nutan Sharma, (SERB-TARE Fellow)

Associate Professor

Department of Chemistry

Faculty of Science

SGT University, Gurugram