

SOPHIA GIRLS' COLLEGE
(AUTONOMOUS), AJMER



DEPARTMENT OF CHEMISTRY

2019-20

1. National Workshop on “Instrumentation Techniques for Research in Chemical Sciences” (ITRCS-2019)

Registration Form

National Workshop
On
**Instrumentation Techniques for
Research in Chemical Sciences
(ITRCS-2019)**
September 6-7, 2019
Sophia Girls' College (Autonomous),
Ajmer

Name: _____
Designation: _____
Organization/Institute: _____
Mobile No.: _____
e - Mail Id: _____
Accommodation required: Yes/No
Registration Fee: Rs. _____
Mode of payment: Cash/Online
Date _____

Place _____ (SIGNATURE)

Online payment may be made through college website
Sophia.college

National Advisory Committee

- Dr. M. Y. S. Prasad, Satish Dhawan Space Centre, Sriharikota; and Vignan University, Guntur, Andhra Pradesh.
- Prof. K. J. Rao, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru.
- Prof. N. S. Gajbhiye Gorakhpur University; Dr. H. S. Gout University, Sagar.
- Prof. R. S. Mali, North Maharashtra University, Jalgaon.
- Dr. M. R. R. Prasad, ISRO, Dept. of Space, Govt. of India, Secunderabad.
- Prof. (Dr.) Pawan K. Dhar JNU, Delhi.
- Dr. (Mrs.) Rita S. Majumdar, Sharada University, New Greater Noida UP.
- Dr. A. K. Tyagi, Bhabha Atomic Research Centre, Mumbai MH.
- Prof. K. Chowdeji Rao, Sri Krishnadevaraya University, Anantapur, AP.
- Dr. B. Sreedhar, ICT, Hyderabad, Telangana.
- Dr. Alok Chaturvedi, SPC Govt. College, Ajmer
- Prof. Suresh Mathew, Mahatma Gandhi University, Kottayam, Kerala.
- Prof. P. S. Verma, UOR Jaipur, Rajasthan
- Prof. Arun Arya, MS University, Baroda, Gujarat
- Prof. Rita Mehra, MDSU, Ajmer.
- Dr. M.C. Sharma, UOR, Jaipur
- Dr. Asha Jain, UOR, Jaipur
- Dr. Suresh Kumar Pandey, University of Jammu, J&K
- Dr. Umesh Nath Tripathi, University of Gorakhpur, UP
- Dr. S. C. Tripathi, GLA University, Mathura
- Dr. Shiv Lal, Principal, GEC Banwara
- Dr. Neelima Gupta, University of Rajasthan, Jaipur
- Dr. Atul K. Bhatnagar, Govt. College Kaladera Jaipur
- Dr. Dharmendra Singh, Govt. College Unzara, Tonk
- Dr. R. K. Menaria, Former Dean, GGTU, Banwara
- Dr. N. Bhojak, Govt. Dungar College, Bikaner
- Dr. Ajay Sharma, Govt. College, Sirsi
- Dr. B.K. Sharma, S.G.G. Govt. College, Banwara
- Dr. Ram Maheshwari, SBRM Govt. College, Nagaur
- Dr. Bina Rani, IIMT, Greater Noida UP
- Dr. Kumud Tanwar, KMM Jaipur
- Dr. Higen Dosi, Ratanmani Education Campus, Becharaji Gaj.
- Dr. Meena, MNTT, Jaipur
- Dr. Jagdev Singh, JECRC University, Jaipur
- Dr. Devendra Kumar, UOR, Jaipur
- Dr. Upma Singh, GBU, Greater Noida UP
- Dr. Hardik Pathak, JECRC University, Jaipur
- Dr. Manish Kumar, Narain College, Shikohabad, UP
- Dr. R. K. Verma, Narain College, Shikohabad, UP
- Dr. Pratiksha Singh, JSSATE, Noida, UP

National Workshop
On
**“Instrumentation Techniques for
Research in Chemical Sciences”**
(ITRCS-2019)
September 6-7, 2019



Organized by:
Department of Chemistry
Sophia Girls' College, Ajmer
(Autonomous)

Sponsored by:



Association of Chemistry Teachers

About Sophia Girls' College (Autonomous), Ajmer

Sophia Girls' College, Ajmer (Autonomous) affiliated to Maharshi Dayanand Saraswati University is an 'A' Grade Accredited Institute by NAAC (UGC). Since 1959 the College has held a high reputation in the region for imparting quality higher education through its dedicated and conscientious staff with high academic credentials and diversity of offered courses. At the Undergraduate Level, the College offers programs in B.A, B.Sc, B.Com, BBA, BCA, B.LIS, Honors in English, Economics, Commerce; and Post Graduate Programs in English, Geography, Political Science, Sociology, History, Computer Science, Chemistry and ABST.

To inculcate scholarly excellence and make globally competent citizens, the Institute offers Generic, Skill Enhancement, Career Development and Foundation Courses for students. The Institution envisions in building its reputation at par with international standards through its worldwide collaboration and linkages with Institutes of repute. It has an MHRD recognized Innovation Institution Cell, Cambridge Communicative Language, Diploma in French, IIT Mumbai, ISRO and DST Sponsored programs under its aegis. As an initiative towards Institutional, Social and Environmental Responsibility, the College has developed a 'Sustainable Environment' by developing Biogas, Water Harvesting System and as is recognized as the first fully solar electrified campus of Rajasthan. It also has a diversity of flora and fauna on the idyllic campus. As a Girls' College the Institution is in the forefront collaborating with NGOs, Women Development Corporation and the PUCL on gender sensitization, women empowerment and women entrepreneurship.

Theme of the Workshop

Instruments are a vital part of methodology of modern science. The realization of the present day of the development and use of modern scientific accomplishment in many disciplines such as chemical, environmental, nano and material sciences has come out through the application of invention of modern scientific instruments. Technology includes instruments and techniques which involves ideas of fresh insights, new concepts and innovative approaches to scientific research in Chemical Sciences.

The workshop on "Instrumentation Techniques for Research in Chemical Sciences (ITRCS-2019) focuses on postgraduate students, research scholars, and teaching faculty, to enrich their knowledge on advancements taking place in the area of various spectroscopic, thermo-analytical, chromatographic, electro-analytical techniques, and structure determination techniques. Eminent specialists on each one of these techniques will share their knowledge and experience. All are cordially invited to participate and derive the benefit.

Eminent Speakers

Dr. M. R. R. Prasad (Scientist/Engineer – SF (Retired), ISRO, Dept. of Space, Govt. of India, Secunderabad)
Dr. G. Ramakrishnan (President Chromatographic Society of India, Mumbai Area)
Dr. Rakesh K. Sharma (Dept. Of Applied Chemistry, The Maharaja Sayojirao University of Baroda, Vadodara)
Dr. B. Sreedhar (Senior Principal Scientist, Indian Institute of Chemical Technology, (CSIR), Hyderabad).
Dr. Joydeep Bhattacharjee (Principal, Govt. College, Goa)
Prof. Ashok K. Sharma (Head, Centre for Research, Innovation & Development (CRID), Daebandhu University, Murthal (Sonapat), Haryana.)
Dr. Alok Chaturvedi (Associate Professor, SPC Government College, Ajmer).

Registration Fee and Last Dates

Submission of Registration form along with fee	August, 20, 2019
PG Students/Research Scholars	Rs. 750/-
Academicians / Scientists	Rs. 1,000/-
Accommodation Fee	Rs. 1,200/-per person/For two days only

Registration fee may be remitted by cash at college office or Online Payment may be made through the College website- sophia.college
 Note: Kindly bring the receipt of your online payment.

Local Organizing Committee

Patron
Dr. Sr. Pearl
 Principal
 Sophia Girls' College (Autonomous), Ajmer.

Convener
Dr. Taruna Sethi
 Head, Department of Chemistry
 Sophia Girls' College (Autonomous), Ajmer.
 Contact No.:9460610654

Co-Convener
Dr. Ashok K. Kakodia
 Department of Chemistry
 SGG Government College, Banswara
 Contact No.:9462877572

Organizing Secretary
Dr. Suneeta Rao
 Contact No.:9413892143

Members of Organizing Committee

Mrs. Deepmala Singhal
 Mrs. Mriganka Upadhyay
 Dr. Sandhya Yogi
 Mrs. Anu Bhardwaj
 Sr. Swapna
 Ms. Shivani Indora
 Ms. Laveena Gulabchandani
 Dr. Pooja Bhambhani
 Ms. Harman Kaur Bhamra
 Ms. Sunita Ranga

E- mail: chemistry@sophiacollegeajmer.in

Name of the Activity – National Workshop on “Instrumentation Techniques for Research in Chemical Sciences” (ITRCS-2019)

Date of activity- 6th-7th September, 2019

Number of Participants – 167

Venue – Conference Hall, Sophia Girls' College (Autonomous), Ajmer

Resource Persons –

S.No.	Name	Designation and Affiliation	Contact No.	Contribution in event as
1.	Dr. M. R. R. Prasad	Scientist/Engineer SF (Retired), Indian Space Research Organization, Dept. of Space, Govt. of India	9553546600	Chief Guest and Keynote speaker

2.	Dr. Rakesh K. Sharma	Assistant Professor, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat	9228499273	Invited Speaker
3.	Dr. Joydeep Bhattacharjee	Principal, Government College of Arts, Science and Commerce, Quepem, Goa	9579671708	Invited Speaker
4.	Dr. Ashok K. Kakodia	Assistant Professor, Department of Chemistry, S. G. G. Govt. College Banskara	9462877572	Invited Speaker and Convener
5.	Dr. Kumud Tanwar	Associate Professor, Kanoria PG Mahila Mahavidyalya, Jaipur (Rajasthan)	8005942288	Invited Speaker
6.	Dr. Alok Chaturvedi	Associate Professor, SPC Government College, Ajmer	8764001157	Invited Speaker
7.	Prof. Ashok K. Sharma	Professor and Chairman, Deenbandhu Chhotu Ram University of Science & Technology, Murthal (Sonapat), Haryana.	9416337633	Invited Speaker
8.	Dr. G. Ramakrishnan	President, Chromatographic Society of India Mumbai Area, India	9820093260	Invited Speaker
9.	Dr. B. Sreedhar	Senior Principal Scientist Analytical Chemistry Division, Indian Institute of Chemical Technology, (CSIR), Hyderabad.	9849725213	Invited Speaker
10	Dr. Pratibha Singh	Assistant Professor JSSATE, Noida, UP	9582895090	Invited Speaker
11	Dr. J. R. Nagora	Joint Director HRD, College Education Commissionerate, Shiksha Sankul, Jaipur	9413524753	Chief Guest of the Valedictory Session

Objective of the Activity

“Science walks forward on 2 feet, namely theory and experiment...but the continuous progress”. Aim of the workshop was to enrich the knowledge about advancements taking place in various instrumentation techniques. This workshop helped them to understand more deeply about the different instruments and their techniques in the field of research especially in chemical sciences. As we know that different fields of research require different type of instruments, therefore to

know their operation more extensively this workshop will be very useful for different research students.

Learning Outcome- Through this workshop all the participants were able to enhance their knowledge about advancements and various aspects of different instrumentation techniques.



NATIONAL WORKSHOP

on

Instrumentation Techniques for Research in Chemical Sciences
(ITRCS-2019)

6th - 7th September, 2019

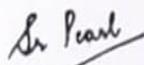
Organized by

Department of Chemistry

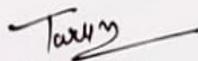
Sophia Girls' College, Ajmer (Autonomous)

CERTIFICATE

This is to certify that Dr./Mr./Ms. Himani Chaudhary
from Sophia Girls' College, Ajmer participated in the
National Workshop on "Instrumentation Techniques for Research in Chemical Sciences" organized by Department of
Chemistry, Sophia Girls' College, Ajmer (Autonomous) on 6th - 7th September, 2019.



Dr. Sr. Pearl
(Patron and Principal)



Dr. Taruna Sethi
(Convener)



Dr. Ashok K. Kakodia
(Co-Convener)



सोफिया कॉलेज में राष्ट्रीय कार्यशाला सम्पन्न



अजमेर। सोफिया कॉलेज में आयोजित दो दिवसीय राष्ट्रीय कार्यशाला शनिवार को सम्पन्न हुई। रसायन विज्ञान में शोध की इंस्ट्रुमेंटेशन तकनीक विषय पर वक्ताओं ने महत्वपूर्ण तकनीकों पर जानकारी दी। कार्यशाला के मुख्य अतिथि संयुक्त निदेशक डॉ. जे.आर.नागौरा थे। वक्ताओं ने एफटीआईआर स्पेक्ट्रोस्कोपी, यूवी स्पेक्ट्रोस्कोपी, 13 सीएनएमआर स्पेक्ट्रोस्कोपी, आईएचएनएमआर, गैस क्रोमेटोग्राफी व मास स्पेक्ट्रोमिटी पर चर्चा की गई। अंत में कॉलेज प्राचार्या डॉ. सिस्टर पर्ल एवं संयोजिका डॉ. तरुणा सेठी ने आभार व्यक्त किया। इसमें करीब दो सौ प्रतिभागियों ने भाग लिया।

2. A Seminar on “How to crack CSIR-NET JRF Exam?”

CATALYST THE CHEMISTRY FORUM
Sophia Girls' College (Autonomous), Ajmer
ORGANISES SEMINAR
ON
**“HOW TO CRACK CSIR-NET JRF
EXAM?”**
RESOURCE PERSON – Dr. R. K. SHARMA
Assistant Professor, Regional Institute of Education, Ajmer

INTENTION OF THE SEMINAR IS TO DEAL WITH TIPS AND TRICKS TO CRACK THE CSIR-NET JRF EXAM WITH FLYING COLOURS.

15th OCTOBER 2019
ROOM NO. 40
11.00 am

Name of the Activity– A Seminar on “How to crack CSIR-NET JRF Exam?”

Date of activity – 15th October, 2019

Number of Participants – 31 students

Venue – Room No. 40, Sophia Girls' College (Autonomous), Ajmer

Resource Person –

Name - Dr. R.K. Sharma

Designation and Affiliation - Assistant Professor, Department of Chemistry, Regional Institute of Education, NCERT, Ajmer.

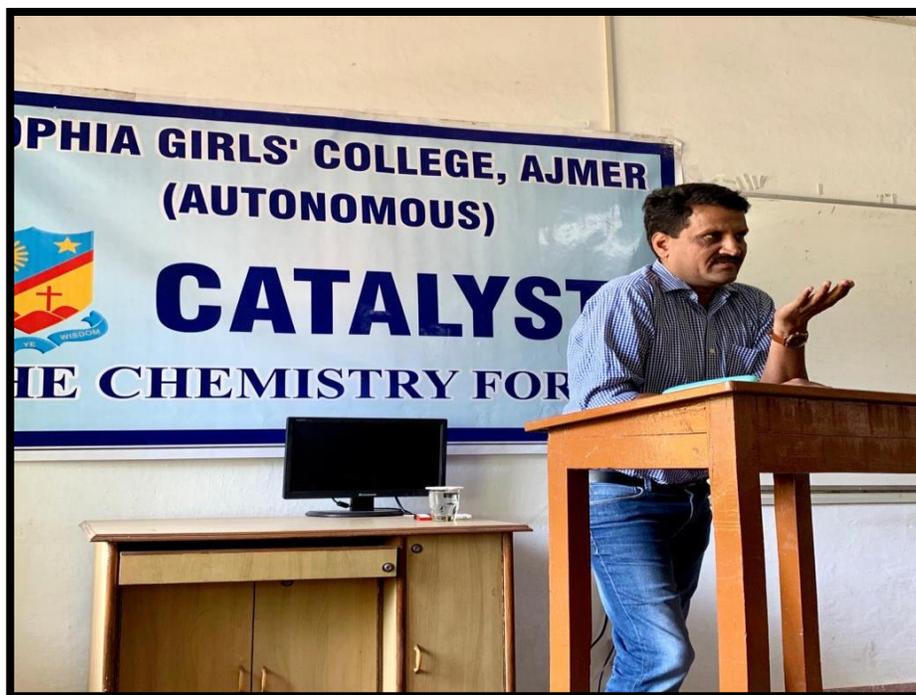
Contact No. - 9414278789

Objective of the Activity

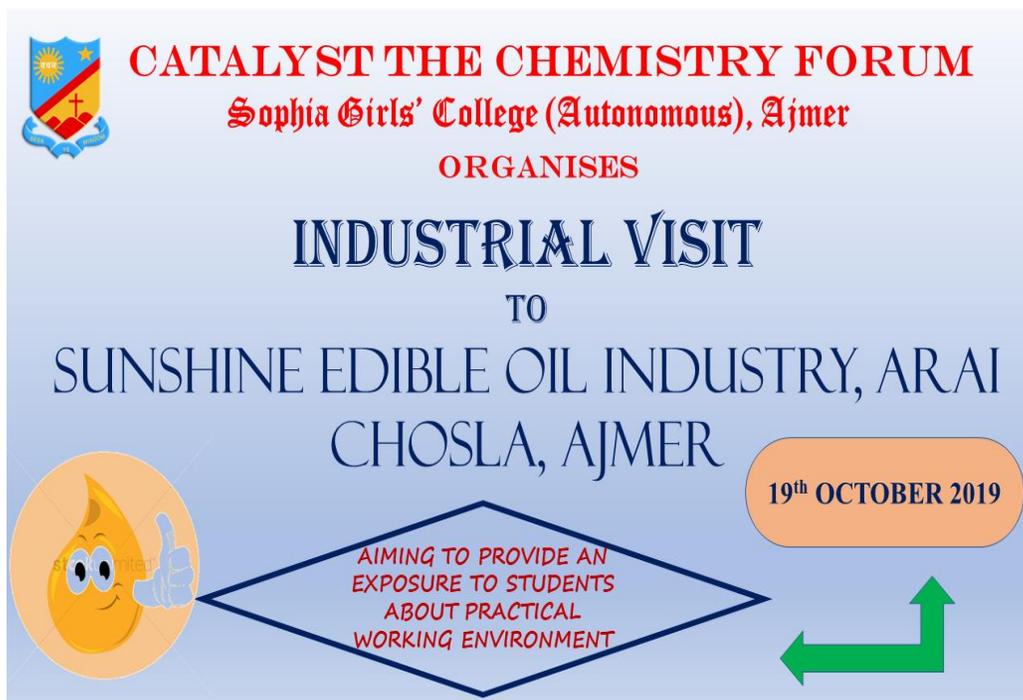
“Successful People see the Opportunities in Every Difficulty rather than the Difficulty in Every Opportunity.” The aim of this seminar was to help students to qualify CSIR-NET exam and overcome their exam fear. The seminar was focused on the tips and tricks required to crack the CSIR NET exam. It also helped many students to set up their strategies to clear their CSIR-NET exam.

Learning Outcome- Through this seminar, students learned various tips and tricks to crack CSIR NET-JRF examination.





3. Industrial Visit to “Sunshine Edible Oil Industry, Arai Chosla, Ajmer”



Name of the Activity- Industrial Visit to “Sunshine Edible Oil Industry, Arai Chosla, Ajmer”

Date of activity – 19th October, 2019

Number of Participants – 30 students

Venue- Sunshine Edible Oil Industry, Arai Chosla, Ajmer

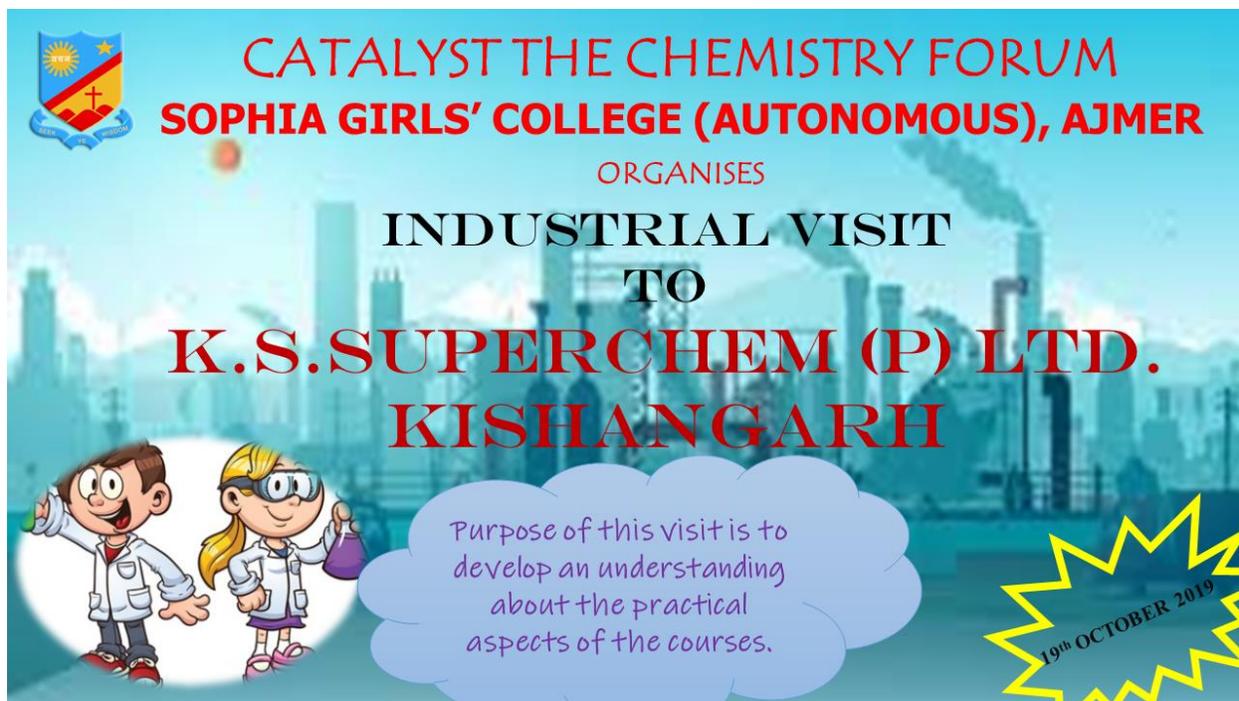
Objective of the Activity

Industrial Visit is considered as one of the tactical methods of teaching. Main aim behind this industrial visit is to provide an exposure to students about practical working environment. Moreover, it gives exposure from academic point of view. It is well said that “Travelling in the younger sort is part of education, while in the elder sort it is part of experience”.

Learning Outcome- Students gained a combined knowledge about both theory and practical aspects of industrial edible oil production after visiting this industry.



4. Industrial Visit to “K.S. Superchem (P) Ltd., Kishangarh”



CATALYST THE CHEMISTRY FORUM
SOPHIA GIRLS' COLLEGE (AUTONOMOUS), AJMER
ORGANISES
INDUSTRIAL VISIT
TO
K.S. SUPERCHEM (P) LTD.
KISHANGARH

Purpose of this visit is to develop an understanding about the practical aspects of the courses.

19th OCTOBER 2019

Name of the Activity- Industrial Visit to “K.S. Superchem (P) Ltd., Kishangarh”

Date of activity – 19th October, 2019

Number of Participants – 30 students

Venue- K.S. Superchem (P) Ltd., Kishangarh

Objective of the Activity

Industrial visit has its own importance in the career of a student who is perusing a professional degree. This is the most important part of college curriculum and objective of this industrial visit is to provide students an insight regarding internal working of industry. It fills the gap between theoretical and practical learning in real life. Students will be able to identify their potential areas of work in the overall organizational function. It will also help to enhance professional skills.

Beyond academics, industrial visit provide students a practical prospective of theoretical concepts.

Learning Outcome- Students learned theoretical and experimental approach behind the industrial chemical production. They also gained knowledge about instruments and techniques used in scale up production of a chemical.



5. A Seminar on “Career Guidance”



**CATALYST THE CHEMISTRY FORUM
SOPHIA GIRLS' COLLEGE (AUTONOMOUS),
AJMER**

**ORGANIZES
SEMINAR ON
"CAREER GUIDANCE"**

**4 FEBRUARY 2020
College Auditorium
12:30 pm**

**Dr. ALOK CHATURVEDI
ASSOCIATE PROFESSOR
SPC GOVERNMENT
COLLEGE, AJMER**



**Get A Wider Vision to your Career
Don't miss this opportunity !**

Name of the Activity- A Seminar on “Career Guidance”

Date of activity- 4th February, 2020

Number of Participants- 84 students

Venue: College Auditorium, Sophia Girls' College (Autonomous), Ajmer

Resource Person-

Name – Dr. Alok Chaturvedi

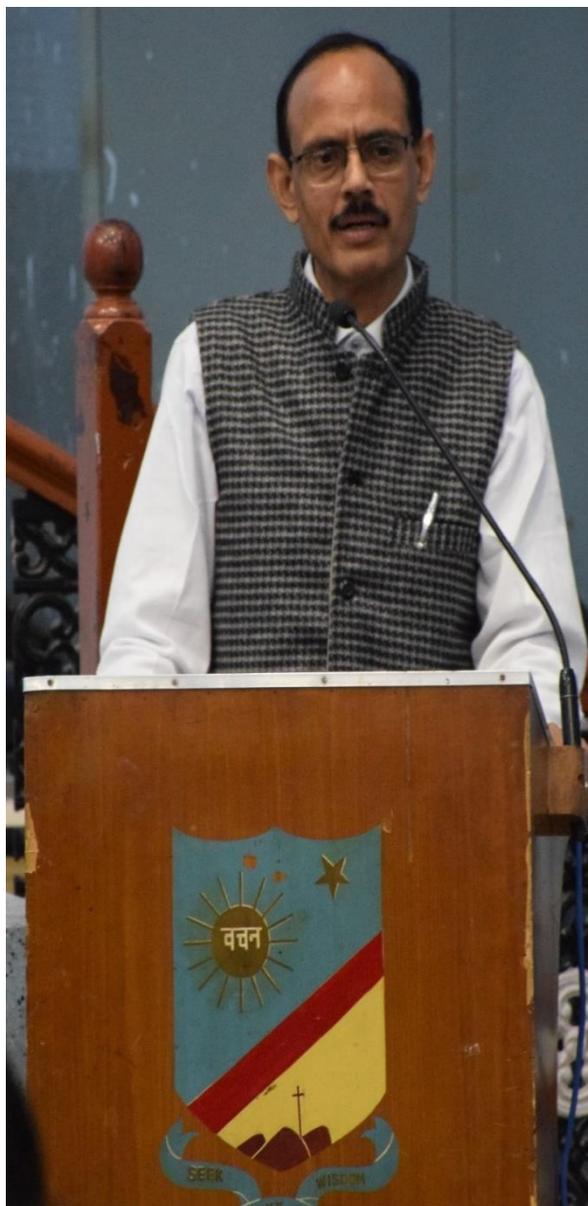
Designation and Affiliation - Associate Professor, Department of Chemistry, SPC Govt. College, Ajmer.

Contact No. - 8764001157

Objective of the Activity

“Self-belief and hard work will earn you success”. Career decision plays an important role in shaping the future and development of students. However, a single decision that every college student has to take is what to do after college. In today's era students are surrounded by the different kind of career options according to their interest. Guiding them about the right choices which lies in their career path and their benefits will help them to make their decision. Career Guidance plays an important role in the life of all individuals as it helps in setting future goals and choosing career.

Learning Outcome- This session of Career Counselling helped the students to understand their own strengths and weakness with regard to their present course and profession and let them know what career they would be suited for.



6. Webinar on “Industry; Academia Collaboration as a Career Prospective”



**Department of Chemistry,
Sophia Girls' College
(Autonomous), Ajmer
In collaboration with
Vienni Training and Consulting
LLP**



**Organizes
A Webinar On
Industry; Academia Collaborations a Career
Prospective**

19th June, 2020, 11:00 am

Aim of the Webinar

Collaboration between academia and industries has produced everything from a melanoma treatment to electric vehicles. The knowledge of an academician is put into practice in an industry and this result in new inventions and discoveries. Keeping in mind, this webinar aims to provide science students an outlook about the opportunities in ever growing industry.

Resource Persons:

- ◆ **Ms. Ivy Louis,**
Founder Director, Vienni Training and Consulting LLP, Bangalore
- ◆ **Mr. Vishal Sharma**
Founder Director, Vienni Training and Consulting LLP, Bangalore

Last Date of Registration- 17th June 2020

Platform – Google Meet

Registration is free. E- Certificate will be provided to all participants

Name of the Activity- Webinar on “Industry; Academia Collaboration as a Career Prospective”

Date of activity – 19th June, 2020

Number of Participants – 109 students

Mode: Online (Google Meet App)

Resource Person –

S.No.	Name	Designation and Affiliation	Contact No.	Contribution in event as
1	Ms. Ivy Louis	Director, Vienni Training and Consulting LLP, Bangalore, Karnataka	9986821045	Invited Speaker
2	Dr. Vishal Sharma	Director, Vienni Training and Consulting LLP, Bangalore, Karnataka	9845762740	Invited Speaker

Objective of the Activity

Collaboration between academia and industries has produced everything from amelanoma treatment to electric vehicles. The knowledge of an academician is put into practice in an industry and this result in new inventions and discoveries. Keeping in mind, this webinar aims to provide science students an outlook about the opportunities in ever growing industry.

Learning Outcome- Through this webinar, students were guided towards the various levels of opportunities in pharmaceutical industries and enlightened about the requirements and expectation of industrial field from fresh talent.

meet.google.com/cpz-jrax-nvy?pli=1&authuser=0

REC ivy Louis is presenting Ayushi Vyas and 79 more 11:29 AM

Understanding Science

A timeline of missed opportunity

Participants: suneeta sophia, ivy Louis, Vishal Sharma

Taskbar: Windows, Chrome, Firefox, Edge, Word, PowerPoint, Teams, Zoom, OneDrive, File Explorer, Settings, Network, Volume, Battery, 11:29 19/06/2020

meet.google.com/cpz-jrax-nvy?pli=1&authuser=0

REC ivy Louis is presenting SHIVANI SISODI... and 82 more 12:24 PM

Partial list of Skills-Aptitude-Attitude that are expected

- Integrity
- Communication- Verbal/Written
 - General
 - Scientific
- Analytical aptitude

How do "WE" know this?

Participants: Vishal Sharma, Deeksha Sharma, ivy Louis

Taskbar: Windows, Chrome, Firefox, Edge, Word, PowerPoint, Teams, Zoom, OneDrive, File Explorer, Settings, Network, Volume, Battery, 12:24 19/06/2020

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11:06 AM

REC

Ivy Louis

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12:44 PM

REC

Windows taskbar icons: File Explorer, Chrome, Firefox, Edge, Word, Teams, Zoom, etc.



Certificate of Participation

This is to certify that Jyoti Thakur has participated in the webinar on “Industry; Academia Collaboration as a Career Prospective” organized by Department of Chemistry, Sophia Girls’ College, Ajmer (Autonomous) in collaboration with Vienni Training and Consulting LLP on June 19, 2020

Sr Pearl

Dr. Sr. Pearl
Principal

Sophia Girls’ College, Ajmer (Autonomous)