

# National Webinar Report

Date: 9<sup>th</sup> July 2021

Topic: Spectral Analysis

Organised by: Dept of Chemistry-PG

Convenors: P.Shравanthi & M.Sangeetha Lawrence

**Guest Speaker: Dr. A. Swaroopa Rani**

Asst. Prof, Dept of Chemistry, Osmania University College for women, Koti, Hyd



**KESHAY MEMORIAL INSTITUTE OF COMMERCE AND SCIENCES**  
(Affiliated to Osmania University) Narayanagada, Hyderabad, 500029.

Department of Chemistry (PG) & IQAC  
is organizing a National Webinar on

**SPECTRAL ANALYSIS**  
Date: 09-07-2021 Time: 11:00 am

Guest Speaker  
**Dr. A. Swaroopa Rani**  
Asst. Prof, Dept of Chemistry  
Osmania University College of Women(OUCW)  
Koti, Hyderabad.

CLICK HERE FOR FREE REGISTRATION

Click here to join the Webinar on 09/07/2021  
<https://meet.google.com/cec-qnxu-sgr>

**Dr. Annadanam Subramanyam**  
Secretary, KMES

**Prof. K. Someshwer Rao**  
Principal

**Prof. J. Nageswara Rao**  
Director, KMES

**DEPARTMENT OF CHEMISTRY (PG)**

Convenors  
**P.Shравanthi**  
**M.Sangeetha Lawrence**

Co-ordinators  
**V.Anjaneyulu**  
**N.Krishna Prasad**  
**S.Pranitha**  
**G.Sindhuri**

e-Certificate will be provided for the participants

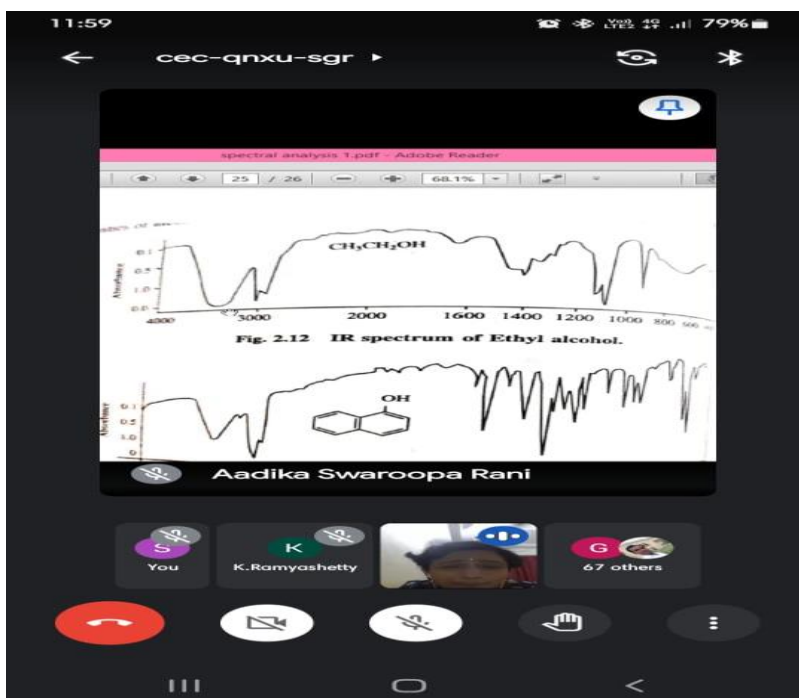
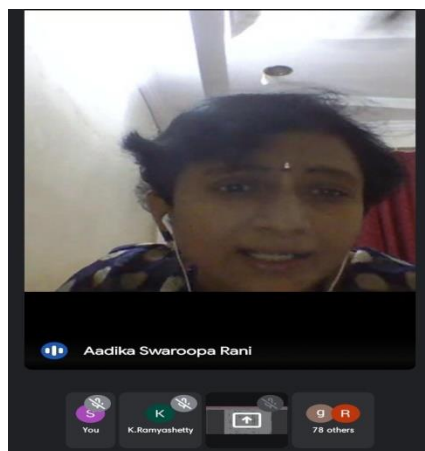
Brochure for National Webinar



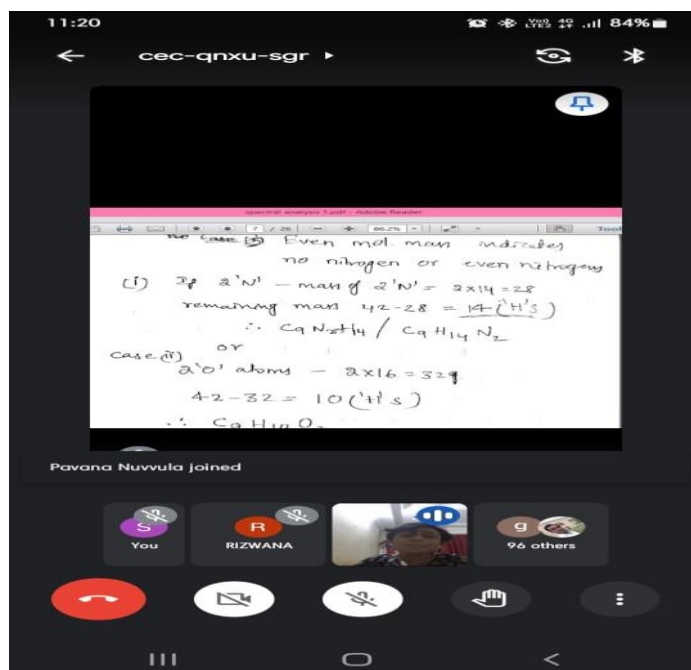
**Resource Person Dr .A. Swaroopa Rani, Dept of Chemistry, OUCW**



**Webinar Participants**



Guest Speaker explaining spectral analysis on Google Meet platform using PPT presentation



### **Aims:**

How to determine the structure of any compound from the given spectral data

### **Objectives of the webinar:**

Madam has explained very clearly and elaborately about the spectral analysis by giving

organic compounds as examples and also provided different spectral data such as NMR( $H^1$  &  $C^{13}$ ), IR, UV-VISIBLE, MASS DATA and explained how to determine structures to different compounds in different spectral methods by using their respective spectral data. Students also clearly understood the topic of spectral analysis and how to assign structures to different molecules. The topic was very useful to the students as it covered their practical topic and also for CSIR-NET and for their Lab interviews.

# National Webinar Report

Date: 13<sup>th</sup> July 2021

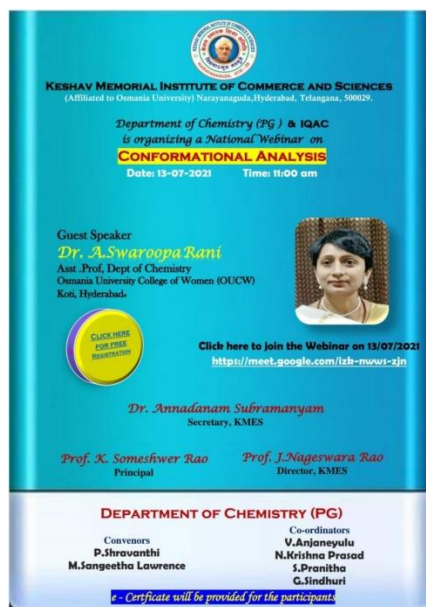
Topic: Conformational Analysis

Organised by: Dept of Chemistry-PG

Convenors: P.Shrvanathi & M.Sangeetha Lawrence

Guest Speaker: Dr.A.Swaroopo Rani

Asst.Prof.Dept of Chemistry, Osmania University College for Women's, Koti



The brochure is for a national webinar organized by the Department of Chemistry (PG) & IQAC at Keshay Memorial Institute of Commerce and Sciences. The topic is Conformational Analysis, held on July 13, 2021, at 11:00 AM. The guest speaker is Dr. A. Swaroopa Rani, an Assistant Professor at Osmania University College of Women (OUCW), Koti, Hyderabad. The brochure lists the convenors (P. Shrvanathi and M. Sangeetha Lawrence) and co-ordinators (V. Anjaneyulu, N. Krishna Prasad, I. Preethi, and G. Sindhuri). It also mentions the principal (Prof. K. Someswara Rao) and director (Prof. J. Nagarwar Rao) of KMES. A link to join the webinar is provided: <http://meet.google.com/ixk-mwvi-sjn>. A certificate will be provided for participants.

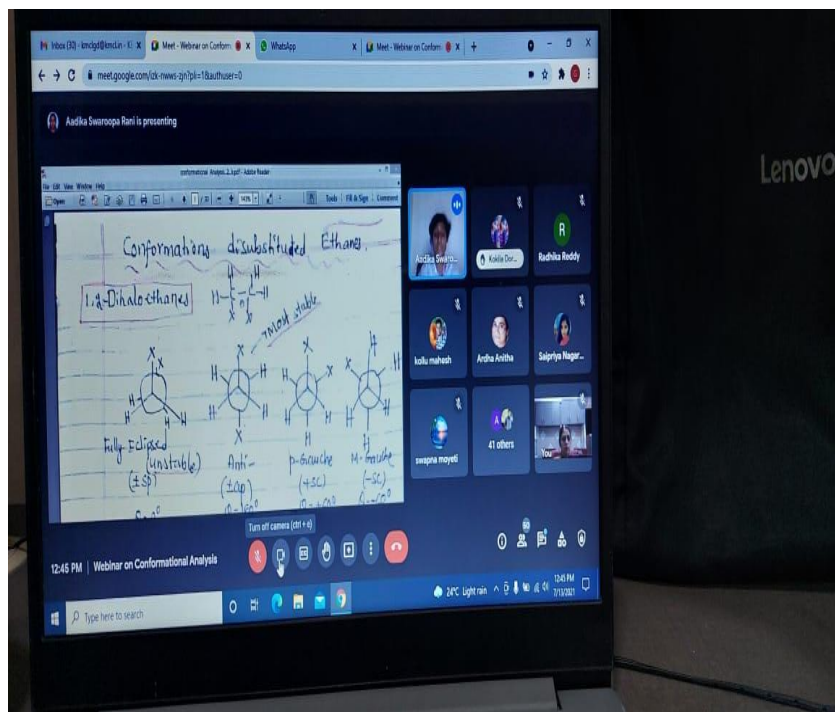
Brochure for National Webinar



## Resource Person Dr .A. Swaroopa Rani, Dept of Chem OUCW



**Webinar Participants**



**Guest Speaker explaining Conformational analysis on Google Meet platform using PPT slide sharing**

### **Aim:**

To Determine Conformational structures of different organic molecules

### **Objectives of the webinar:**

Madam has explained very clearly and elaborately about the Conformational analysis by taking different organic compounds as examples and explained types of conformational isomers and relative stability of conformers which is important in predicting product selectivity, mechanism and reaction rates.



## SEMINAR

Topic: X-ray Diffraction & Fluorescence Spectroscopy

Date: 31 December 2021 Venue: Dept of Chemistry, OUCS.







### **Report:**

The Seminar was about the topic “X-ray Diffraction and Fluorescence Spectroscopy”, the speaker has clearly explained about the diffraction phenomenon, Bragg's Law and how to assign a structure for crystal's based on angle of diffractions, and Miller indices, all students clearly understood the calculations about structure assignment, another speaker has explained about Fluorescence Spectroscopy and its uses in chemistry. The Department of Chemistry OU has purchased new sophisticated Fluorescence spectrometer and demonstrated it's working to all the students and staff, students got a great opportunity to see the instruments and to learn its working principle also.

## **NATIONAL SCIENCE DAY CELEBRATIONS**

**Topic: "CHEMISTRY AND SUSTAINABILITY".**

**Date: 28-02-2022**

**Venue: S.V Hall**

On the Occasion of National Science Day we the Department of Chemistry P.G Organized a seminar for both Organic & Analytical chemistry students on the topic "CHEMISTRY AND SUSTAINABILITY".



**Guest along with staff honored Koratkar Statue with Garland.**





**Welcoming the Guest by Harshitha (MSc. Analytical chemistry student)**



**Student presenting sapling to the Guest**



**Student presenting sapling to the Principal**



**Student presenting sapling to the Convener of Science Association Mrs. P. Shраванти**



**Introduction of Science Day was given by the convener**



**Principal of KMICS Dr. K.Someshwar Rao Addressing the Gathering**





**Guest introduction by Shanmukhi (M.sc Organic chemistry student )**



**Seminar Presentation by Prof. Jayaprakash Rao Garu**



**Vote of thanks was proposed by Sharath (M.sc Organic chemistry student )**



**Staff and Principal felicitated the Guest**



### **Out Comes:**

Sir has clearly explained about the topic Chemistry and Sustainability by taking various compounds as examples. Students also clearly understood Asymmetric synthesis, Organo catalysis, how different catalysts are used to increase the rate of reaction for various organic compounds synthesis. Sir has also explained about Catalysts and their impacts on the Society through Asymmetric synthesis of various compounds and how sustainability can be achieved by means of chemistry in all aspects.

## **FIELD TRIP**

**Date: 12/05/2022**

**Place: Biological E. Ltd, Koltur, Shameerper**

**No of Students participated: 56**





**Staff along with students**







**Students at Biological E. Ltd**



**Students along with the staff participated in the field trip**



## **Field Trip Report**

The production unit staff has demonstrated how drug enoxaparin sodium can be synthesized using different reactors. They have explained that the drug can be produced in three different stages by using various chemicals and solvents and finally separation will be done by filtration, centrifugation and drying of the wet material and finally the drug is dissolved in methanol and used for final analysis by using instrumental techniques. Biological E. Ltd unit staff clearly explained and demonstrated the complete production unit and how drugs are manufactured by using various procedures to all the students. Students also had a clear understanding regarding the production which correlates to their academic knowledge of synthesis or production of drugs. The trip was very useful to all the students as it has provided a real practical experience to see a real drug production in big Pharma labs.