

**Report of the FDP**  
**on**  
**ICT Tools in Teaching Chemistry**  
organized by  
**Teresian Teaching Learning Centre, (An IQAC initiative)**  
**and**  
**Department of Chemistry and Center for Research**  
**St. Teresa's College (Autonomous), Ernakulam**  
September 2-September 6, 2020

The Teresian Teaching-Learning Centre (An IQAC initiative), and Department of Chemistry and Center for Research, St. Teresa's College (Autonomous), Ernakulam initiated an Online FDP on **ICT Tools in Teaching Chemistry** for the Chemistry teachers of various Colleges and Schools in India during September 2020. The present global situation of Covid 19 pandemic and the understanding of an urgent need to enable teachers to handle online classes demanded such an online course.

This is the report of the FDP offered which includes tools for teaching chemistry online. The topics covered in the programme were Introduction to ICT, some Open Educational Resources, Chemdraw (online and offline), ChemSketch, Chem4word Plugin, virtual labs, simulations, and interactive periodic tables.

Recorded classes were prepared by the resource person Dr. Narinderjit Kaur, Assistant Professor, PG Department of Chemistry, Kanya Mahavidyalaya (Autonomous), Jalandhar, Punjab. The course coordinators were Dr. Saritha Chandran A, and Ms. Sicily Rilu Joseph, Dept. of Chemistry. The course was offered through the college MOODLE platform. The course included recorded videos, five assignments, and a final evaluation, feedbacks, discussion forums and doubt clearance sessions. The course content was offered for 5 days and two more days were given to the participants to complete their assignments. The final quiz was on 8<sup>th</sup> September. The assignments were designed to give them hands on training and assess their practical experience while the quiz was to evaluate their theoretical knowhow of the topics taught in each session.

196 participants registered for the course and 151 participants successfully completed the course. There were participants from 23 different states of India including Maharashtra, West Bengal, Rajasthan, Ladakh, Madhya Pradesh, Karnataka, Uttar Pradesh, Haryana, Tamil Nadu, Pondicherry, Bihar, Gujarat, Jammu and Kashmir, Delhi, Goa, Andhra Pradesh, Telungana, Punjab, Uttarakhand, Assam, Chhattisgarh, Tripura and Kerala

**Course Outcomes :**

1. Understand the importance of ICT in Teaching Learning Process
2. Apply ICT in teaching Chemistry
3. Use Chemdraw online and offline and Chems sketch for drawing chemical structures and writing equations
4. Draw chemical structures in MS Word
5. Illustrate periodic properties of elements using interactive periodic tables
6. Use virtual chemistry labs

## Brochure

**St. Teresa's College (Autonomous), Ernakulam**  
College with Potential for Excellence, Re-accredited by NAAC with A++ Grade and CGPA 3.57 in 4<sup>th</sup> Cycle  
NIRF ranking 47 (2020)

**TERESIAN TEACHING LEARNING CENTRE**  
(An IQAC Initiative)

**&**

**DEPARTMENT OF CHEMISTRY AND CENTRE FOR RESEARCH**  
*organises*

**FDP ON**

**ICT TOOLS IN TEACHING CHEMISTRY**  
September 2 - September 6, 2020

This is intended for Chemistry Faculty across the country

  
**Dr. Narinderjit Kaur**  
Assistant Professor  
PG Dept. of Chemistry  
Kenya Maha Vidyalaya (Autonomous)  
Jalandhar, Punjab

USE OF ICT IN TEACHING CHEMISTRY  
OPEN EDUCATIONAL RESOURCES SIMULATIONS  
CHEMDRAW  
CHEMSKETCH  
CHEMICAL STRUCTURES ON MS WORD  
INTERACTIVE PERIODIC TABLES  
CHEMISTRY VIRTUAL LABS

Please register by carefully following the instructions in the link:  
<https://teresas.ac.in/fdp-igac/>  
Registration fee : Rs.200/-

Course will be offered through College Moodle Platform  
Participants can access the course material anytime during the day  
User ID and password will be sent to your registered email by September 1, 2020

**e-Certificate on successful completion of the course**

**COORDINATORS**

**Dr. Saritha Chandran A (9048799993)**  
**Dr. Jeena Ann Joseph**  
**Ms. Sicily Rilu Joseph (8281353192)**  
tlc@teresas.ac.in

## Registration

**Registration Fees**

**: Rs. 200/-**

**Duration of the Programme**

**: 5 days duration and 2 days extra for completing assignments and test**

**Target Group**

**: Chemistry teachers of School and College**

**No. of participants registered**

**: 196 teachers applied from 23 different states of India including Maharashtra, West Bengal, Rajasthan, Ladakh, Madhya Pradesh, Karnataka, Uttar Pradesh, Haryana, Tamil Nadu, Pondicherry, Bihar, Gujarat, Jammu and Kashmir, Delhi, Goa, Andhra Pradesh,**

Telungana, Punjab, Uttarakhad, Assam,  
Chhattisgarh, Tripura and Kerala

**No. of students who completed the course : 151**

### Results

**No. of students who cleared the exams : 151**

No. Students who secured **A+** Grade : 20

No. Students who secured **A** Grade : 40

No. Students who secured **B+** Grade : 73

No. Students who secured **B** Grade : 15

No. Students who secured **C** Grade : 3

### Feedback analysis

Question	Responses	
	Highly	Moderately
The session was informative and well-structured	95.68 %	4.3 %
Doubts and clarifications were effectively resolved	98.57 %	0.71%
The FDP improved my skills of using the tools	87.1 %	12.1%
I will be able to effectively use it for my academic works and to teach the subject	90.7 %	8.5 %
Was the FDP effectively organized?	98.57 %	0.71%
How likely are you to join programmes hosted by Teresian Teaching Learning Centre in future?	95.7 %	3.57 %

### Certificate Model

