



GOVERNMENT DEGREE COLLEGE  
BHADRACHALAM-507111.  
BHADRADRI KOTHAGUDEM DIST  
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Date: 08-11-2021

FROM  
THE INCHARGE  
DEPT.OF CHEMISTRY  
GOVT.DEGREE COLLEGE  
BHADRACHALAM

TO  
  
THE PRINCIPAL  
GOVT.DEGREE COLLEGE  
BHADRACHALAM

Respected Sir,

**Sub:** Department of Chemistry. Conduct of Certificate Course in Hands on training on ChemDraw and ChemSketchSoftwares for 25 days.

For academic year 2021-2022. Permission requested -Reg.

With reference to the Subject, I hereby Submit to your kindness that the Department of Chemistry is planning to conduct a 25-day certificate Course in Hands on training on ChemDraw and ChemSketchSoftwares for III Year students of BZC&MPC. This course is useful to provide self-employment opportunities to the students. Theory syllabus has been planned to benefit the student to acquire more practical knowledgeskills for the students. Hence, I request you to kindly permit the department to conduct the said course with effect from 15<sup>th</sup> Nov 2021

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Thanking you sir.

Yours Faithfully,

*109*  
Principal  
Govt. Degree College  
( Bhadrachalam-507 111,  
Bhadradi Kothagudem Dist.

Department of Chemistry

Certificate Course

Hands on Training on ChemDraw and ChemSketch Softwares 30Hrs

Objectives:

1. The students will be able to write chemical structures using softwares.
2. Able to predict physical properties using chemistry softwares.
3. Able to predict spectral data using chemistry softwares.
4. Students can write the chemical equations

ChemDraw(10Hrs)

Introduction to basic features of ChemDraw, download and installation process, Chemical structure to name conversion, Chemical name to structure conversion, NMR spectrum simulation (both H NMR & C13 NMR), Mass spectrum simulation, structure clean up, export to SVG, PDF. Introduction to Chemsketch-Molecular modelling, create and modifying images of chemical structures, write and perform chemical equations and diagrams.

Chemsketch (10 hrs)

Introduction to basic features of Chemsketch, Drawing of heterocyclic compounds and predicting physical properties such as molecular weight, molecular formula, density, refractive index and spectral data (H NMR & C13 NMR)

Analysis of Data (5 hrs)

Analysis of data by using pie charts, bar diagrams and plotting of various 2D & 3D graphs. Calculation of statistical data using formulas. Conversion of graph to various file format like JPEG, GIF, EPS.

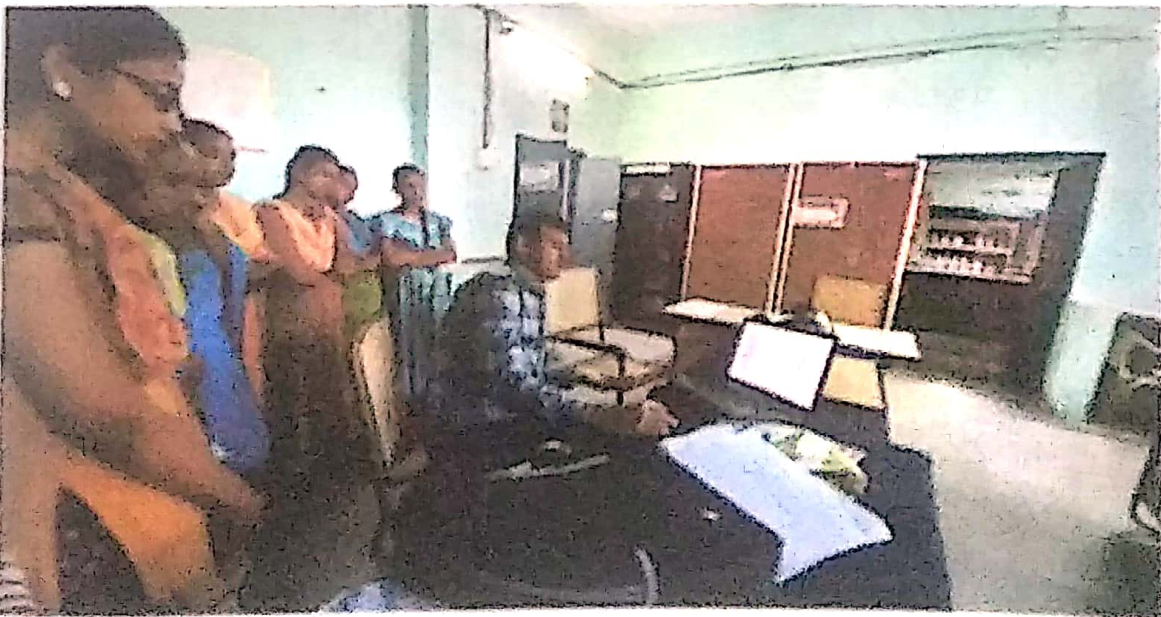
Practicals: (5Hrs)

Drawing of chemical structures, prediction of spectral data and physical properties of the following compounds 2,4,6- Tribromophenol, Nerolin, Acetophenone, Sulphinilamides, Paracetamol, Chloroquin, Omeprazole and Penicillin G.

**Dr. R. ROOPA**  
Asst. Professor, Dept. of Chemistry  
MAHATMA GANDHI UNIVERSITY  
NALGONDA-508254, A.P., INDIA.

**Dr. MAVURAJU SATYANARAYANA**  
Assistant Professor  
Department of Pharmaceutical Chemistry  
Telangana University  
Technically, Nizamabad-503320

Department of Chemistry  
UCS, Osmania University  
Hyderabad-007



2021-22

ATTENDANCE REGISTER OF Certificate Course YEAR II B.Sc CLASS

ROLL NO.	NAME OF THE STUDENT	MONTH	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12					
		DATE	15	16	17	18	22	23	24	25	29	30	01	02	06	07	08	09	13	12	14	15	16	26	21	22	23	23
		INITIAL OF LECTURER																										
		NO. OF LECTURES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
3001	Badisa. Sammakka																											
3002	Bairi. Swapna																											
3004	Dekka. Teja Sri																											
3005	Gadida. Sowmya																											
3006	Madipalli. Sridevi																											
3007	Tati. Chandana																											
3009	Valle. Spandana																											
3010	Vemula. Sada																											
3011	Vemula. Sri Navya																											
3203	Benuku. Dshwarya																											
3204	Bethampudi. Sri Vidya																											
3205	Balle. Sai Laja																											
3206	Buddula. Methyala rao																											
32	Debba. Lalitha																											
	Gadaboina. Saran Raji																											
	Gaddam Anucha																											
	Gaggun. Sandhya																											
	Gatta. Kavya Sree																											
	Gattupalli. Abga Sai Kiran																											
	Drpa P.B. Rani																											
	Katiboina. Abgamani																											
	Karam Ajith Kumar																											
	Korimi. Sailaja																											
	Karsa. Venkata Ramana																											
	Kunjai. Renuka																											
	Madira. Harika																											
	Mallela. Sai Supriya																											
	Maremilla. Ramya																											
	Maramam. Nagesh																											
	Mattipalli. Bhagya Sree																											
	Mothukuri. Bhavana																											
	Muddina. Nagu																											

TOTAL NO LECTUR ATTENDE STUDEN