

GOVERNMENT DEGREE COLLEGE

Razole, East Godavari District, A.P.



Certificate Course on "ChemSketch"

December 2020-February 2021



CERTIFICATE

-	Course on " ChemSketch " softward from December 2020-February 2021.	re organized by Dept. ofChemistry,
IQAC Co-ordinator	In-charge	Principal

DEPARTMENT OF CHEMISTRY

GOVERNMENT DEGREE COLLEGE, RAZOLE

Syllabus for "ChemSketch" Certificate course

1. Basics of ACD ChemSketch: -

Objectives, Starting ChemSketch, setting file associations, changing default directories, installing add-ons.

2. Drawing Simple molecules:-

Objectives, Drawing atoms, bonds and labels, cleaning the screen, flipping structures, Output.

3. Drawing more complex structures:-

Using the table of Radicals,ring structures, deleting atoms and fragments,replacing atoms,setting double,triple bonds,setting charges, defining anions,cations,Markush bonds,Generating streo descriptors,drawing coordination bonds,delocalized charges and curves,changing atom properties.

4. Advanced structures, SMILES, InChi notations, reaction schemes:

2D-optimization, SMILES Notations, InChi notations, 3D-Optimization, Drawing, labeling and mapping reactions.

5. Advanced Drawing: Templates

Table of radicals, instant template tool, template window, drawing complex structures of biomolecules, defining a user template

6. Calculating macroscopic properties:

Menu command, automatic display on status bar, calculating monoisotopic mass for a fragment (Mass spec scissors)

7. Special function keys:

Tautomers, ACD dictionary

8. Creating Graphical Objects:

Drawing the energy of a graphical diagram, drawing different kinds of Orbitals, drawing vaccum distillation apparatus, drawing two chains DNA strand, drawing lipids, miscelles, creating tables.

9. Managing documents:

Converting to adobe PDF, creating a poster, inserting headers and footers

10. Working with structures in style mode:

Changing the style of a structure, creating your own style

11. Working with structures in drawing mode:

Changing the style of an object, saving a style, applying an existing style, setting a default style

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Exam for "ChemSketch" Certificate course

Answer all Questions

5 X 4 = 20 M

- 1. What are the functions of Structure & Draw mode in ChemSketch software?
- 2. What are SMILES,InCHI Notations?
- 3. Draw the following molecule
- 2-Methyl Hexanol
- 4. Draw the following molecule

Phenanthracene

5. Draw the following molecule

Reimer-Tiemann reaction

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Name of the certificate Course: Drug Discovery & IPR 2020-2021

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No. of Days		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
S.No	Name of the Student	09-12-2020	10-12-2020	11-12-2020	14-12-2020	15-12-2020	16-12-2020	17-12-2020	18-12-2020	19-12-2020	21-12-2020	22-12-2020	29-12-2020	30-12-2020	31-12-2020	04-01-2021
1	B. Haritha	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
2	K.Mounika	А	Р	Р	Р	Р	А	Р	Р	А	А	Р	Р	Р	Р	Р
3	T.Lakshmi priya	Р	А	А	А	Р	Р	А	Р	А	Р	Р	А	Р	Р	А
4	P.Anjali	Р	А	Р	Р	Р	А	Р	Р	Р	А	Р	Р	Р	А	Р
5	P.Chandra jyothi	А	А	Р	Р	Р	Р	Р	Р	Р	Р	А	Р	Р	А	А
6	K.Naga Masa Raju	Р	Р	А	Α	Р	Р	Р	А	Р	А	Р	А	Р	Р	Р
7	N.Komali Sai Mallishwari	р	р	р	р	р	р	р	р	р	А	р	р	р	р	р
8	V.Suma	р	р	р	р	р	р	р	р	р	р	р	А	р	р	р

No. of Days		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
S.No	Name of the Student	05-01-2021	06-12-2021	07-01-2021	08-01-2021	22-01-2021	23-01-2021	25-01-2021	27-01-2021	28-01-2021	29-01-2021	30-01-2021	01-02-2021	02-02-2021	03-02-2021	04-02-2021
1	B.Haritha	Р	Α	Р	Р	Α	Р	Р	Α	Р	Р	А	Р	Р	Р	А
2	K.Mounika	Р	Р	Р	Р	А	Р	Р	Р	Р	А	Р	Р	Р	А	Р
3	T.Lakshmi Priya	Р	Р	Р	А	Р	Р	Р	Р	А	Р	Р	А	Р	Р	Р
4	P.Anjali	Р	Р	А	Р	Р	Р	А	Р	А	Р	Р	А	Р	Р	А
5	P.Chandra Jyothi	Р	Р	Р	А	Р	Р	А	Р	Р	Р	А	Р	А	Р	Р
6	K.Naga Masa Raju	Р	Р	Р	Р	А	А	А	Р	Р	Р	Р	Р	Р	Р	Р
7	N.Komali sai Mallishwari	р	А	р	р	р	р	р	р	р	р	р	р	р	р	р
8	V.Suma	р	р	р	р	р	р	р	р	р	р	р	р	р	р	р