Department of Chemistry

Certificate Course

Hands on Training on ChemDraw and ChemSketch Softwares   30Hrs

Objectives:

1. The students will able to write chemical structures using softwares.

2. Able to predict physical propertiesusing chemistry softwares.

3. Able to predict spectral datausing chemistry softwares.

4. Students can write the chemical equations

ChemDraw(10Hrs)

Introduction to basic features of ChemDraw, download and installation process, Chemical structure to nameconversion, Chemical name to structure conversion ,NMR spectrumsimulation(both H NMR &C13 NMR),Mass spectrum simulation, structurecleanup,export to SVG,PDF. Introduction to Chemsketch-Molecularmodelling , create and modifying images of chemical structures, write andperform 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, refractory index and spectral data (H NMR &C13 NMR)

Analysis of Data (5 hrs)

Analysis of data by using pi 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, Paracetamaol, Chloroquin, Omeprazole and Penicillin G.

Dr. R. ROOPA
Asst. Professor, Dept. of Chemistry
MAHATMA GAN
NALGONDA-

Department of Chemistry
UCS, Osmania University
Hyderabad-007

Asst. Professor
Department of Pharmaceutical Chemistry
Telangana University
Nizamabad

Outcomes:

1. After completing the corse students can use chemdraw and chemsketchsoftwares for molecularmodeling,writing structures and chemical equations.
2. Students can interpret the physical properties and spectral data through chemdraw and chemsketch.
3. To understand scientific graphing and data analysis.

Evaluation:

Assessment of the course will be done by based on assignments and practicals.

Assignments   -   20 marks

Practicals   -   30 marks

Head
Department of Chemistry
UCS, Osmania University
Hyderabad-007

Dr. R. ROOPA
Asst. Professor, Dept. of Chemistry
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Dr. MAVURAPU SATYANARAYANA M.Sc. Ph.D
Assistant Professor
Department of Pharmaceutical Chemistry
Telangana University
Dichpally, Nizamabad-503322

CHEM DRAW

S.NO	NAME	YEAR OF STUDY	SIGNATURE
1)	T. Jaya Naga Sri	Bsc-Btbc Final Year	T. Jayanagasri
2)	M. Poojitha	Bsc-MBc Final year	Poojithg
3)	P. Nithanya	BSC BtBC final year	P. Nithanya.
4)	M. Sai Sushma	BSC MBC final year	M.Sushma
5)	P. Tanishca	B.Sc BtZC final Year	P. Tanishca
6)	B. Manisha	B.Sc BtZC final Year	B. Manisha.
7)	P. Renuka	B.SC ANZC final Year	P.SriRenuka
8)	G.S. Bhavana	B.Sc BtZC final year	Bhavana
9)	G. Bhuvaneswari	B.Sc BZC final year	G. Bhuvaneswari
10)	B. Manasa	B.Sc BZC final year	B. Manasa.
11)	A. Akhila	B.Sc BZC final year	A. Akhila.
12)	V. Akshitha	B.SC BZC Final year	V. Akshitha
13)	D. Deepthi	B.SC BZC Final year	Deepthi
14)	B. Hemalatha	B.Sc BZC final yeas	Hemalatha.
15)	M. Shruthi	B.Sc Bzc final year	M. Shruthi
16)	R. sangeetha	B.SC Btbc Final yoar	R. sangeetha
17)	A. Sravani	B.Sc BZC Final Year	A. Sravani
18)	C. Anitha.	B.Sc BZC Final yeas	C. Anitha
19)	V. krishnasri	Bsc BTZC final year	

Why ChemDraw?

- The drawing of chemical formulae and reaction schemes is a repetitive task for chemists on all levels of their education. While hand-sketching is most efficiently used during discussions and learning, neat drawings are required for official reports, publications, and theses.

- Such drawings can be created with several computer programs, and one example is ChemDraw.

Introduction to ChemSketch
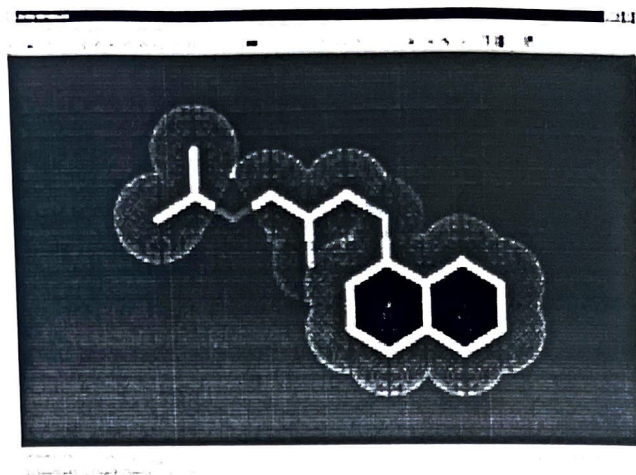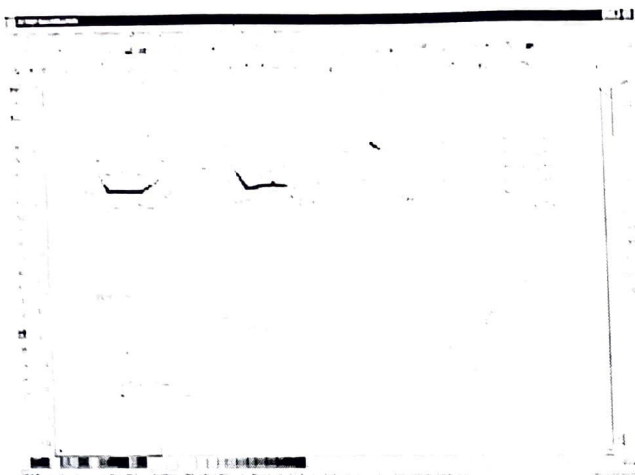
Images courtesy of ACD/ChemSketch.

Most of the things we use – furniture, cars and trains, hairbrushes, houses and organisms we interact with – insects, people, pets are all large enough for us to see with the naked eye. As we learn about our world in more detail, we learn that there are organisms that are even hundreds of times smaller than our garden spider and require a microscope to see. We learn about the dust mites, our seemingly invisible neighbors. In awe, we discover that a smooth may appear jagged and rough under the microscope, something that we could not have thought of by observation with the naked eye. Just imagine, a single cell is 10,000 times smaller than the average dog, and an atom is 100,000,000 times smaller than a single cell. Since we cannot see how an atom of hydrogen or lead actually looks like, we will use molecular visualization programs and hands-on molecular models to better understand chemistry.
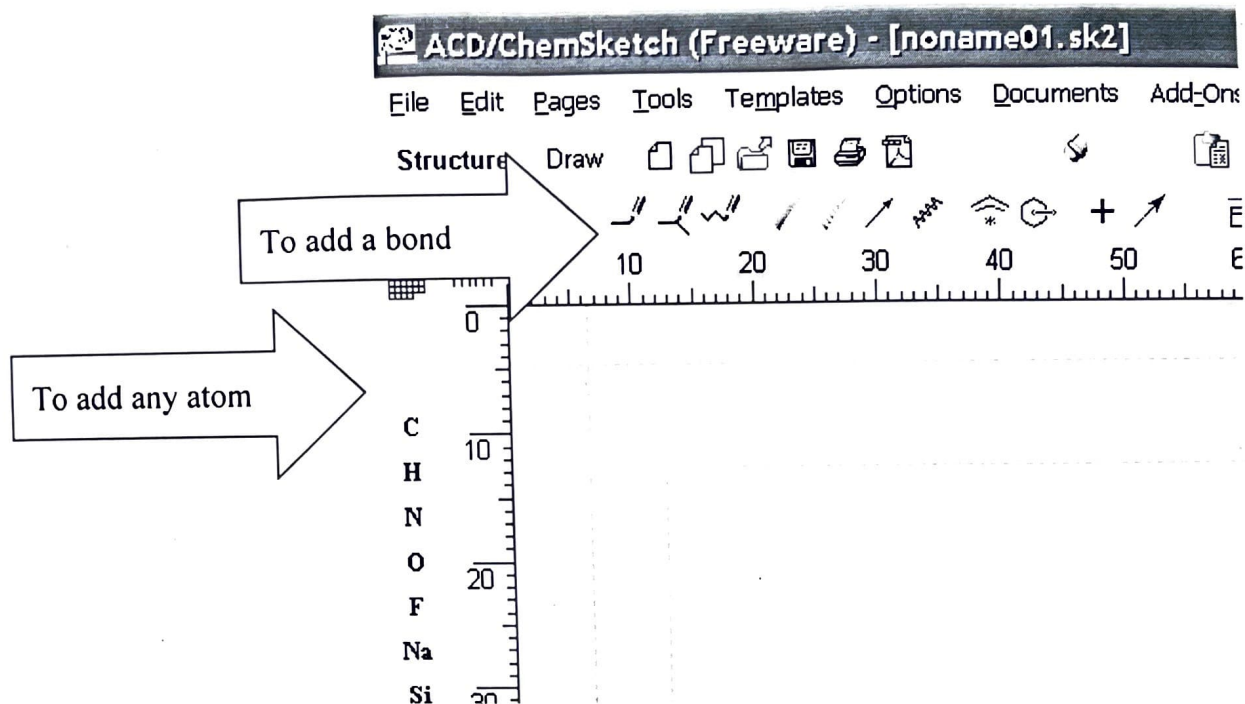
In this course, we will be using ACD/Chemsketch, a free program developed by Advanced Chemistry Development, Inc., (ACD/Labs), to draw chemical structures and render or transform these structures into 3-D pictures that we can visualize.

Info Link: http://www.acdlabs.com/products/chem_dsn_lab/chemsketch/

To download Chemsketch:

1) Go to http://www.acdlabs.com/download/chemsk.html.

2) Click on the link that says:
   "**Click Here to Download ChemSketch 11.0 Freeware**"

Tutorial: Using ChemSketch

ACD/ChemSketch (Freeware) - [noname01.sk2]

File   Edit   Pages   Tools   Templates   Options   Documents   Add-Ons

Structure   Draw

To add a bond

10   20   30   40   50

To add any atom

0

C
H   10
N
O
F   20
Na
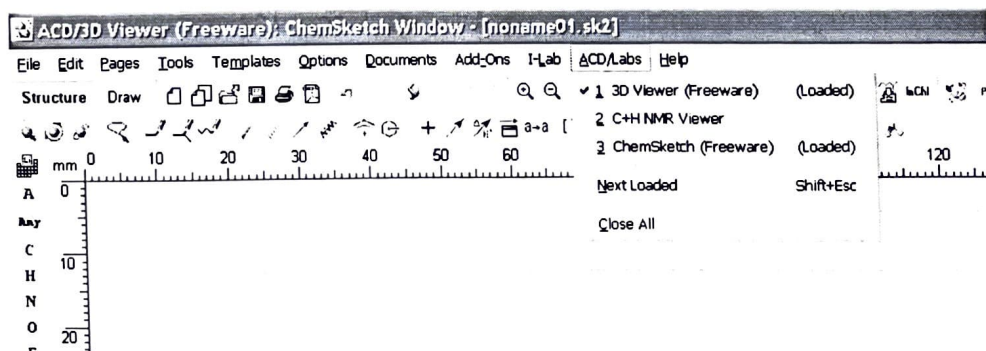Si   30

1. Click on the letter of the first atom (from left side buttons) you want to draw.

2. Click on the white drawing space to put the atom there.

3. Repeat first two steps to add other atoms.

4. Click on the button with the "to add a bond" arrow pointing at it to add bonds between atoms.

To view molecules in 3D:

1. On the top menu, click on "ACD/Labs" and select "1 3D Viewer (Freeware)"

ACD/3D Viewer (Freeware): ChemSketch Window - [noname01.sk2]

File   Edit   Pages   Tools   Templates   Options   Documents   Add-Ons   I-Lab   ACD/Labs   Help

Structure   Draw

| ✔ 1 3D Viewer (Freeware)   (Loaded) |
| 2 C+H NMR Viewer |
| 3 ChemSketch (Freeware)   (Loaded) |
| Next Loaded   Shift+Esc |
| Close All |

mm   0   10   20   30   40   50   60   120

A   0
Any
C   10
H
N
O   20
r

Introduction to Data Analysis Using an Excel Spreadsheet

Purpose _____

The purpose of this introductory lab is to teach you a few basic things about how to use an EXCEL 2010 spreadsheet to do simple data analysis in the labs.

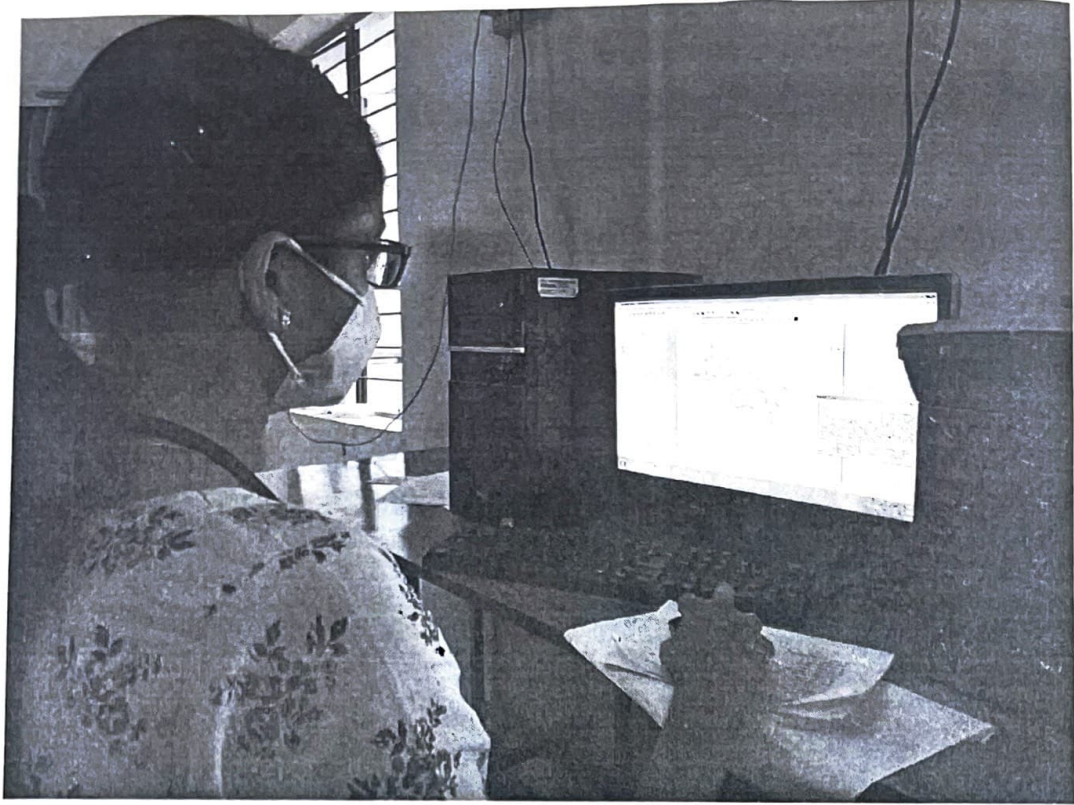## Spreadsheets - What they are and what they are good for.

A spreadsheet is a computer program that turns your computer screen into a smart piece of paper. It removes much of the grunt work associated with repetitive calculations and lets you easily see the results of your work. We use spreadsheets in the labs, because they reduce the amount of time needed to look at and understand the data taken in the labs. With a spreadsheet, we can enter raw data, manipulate it and plot it all with a few simple commands. They are especially useful because of their built in ability to plot data.
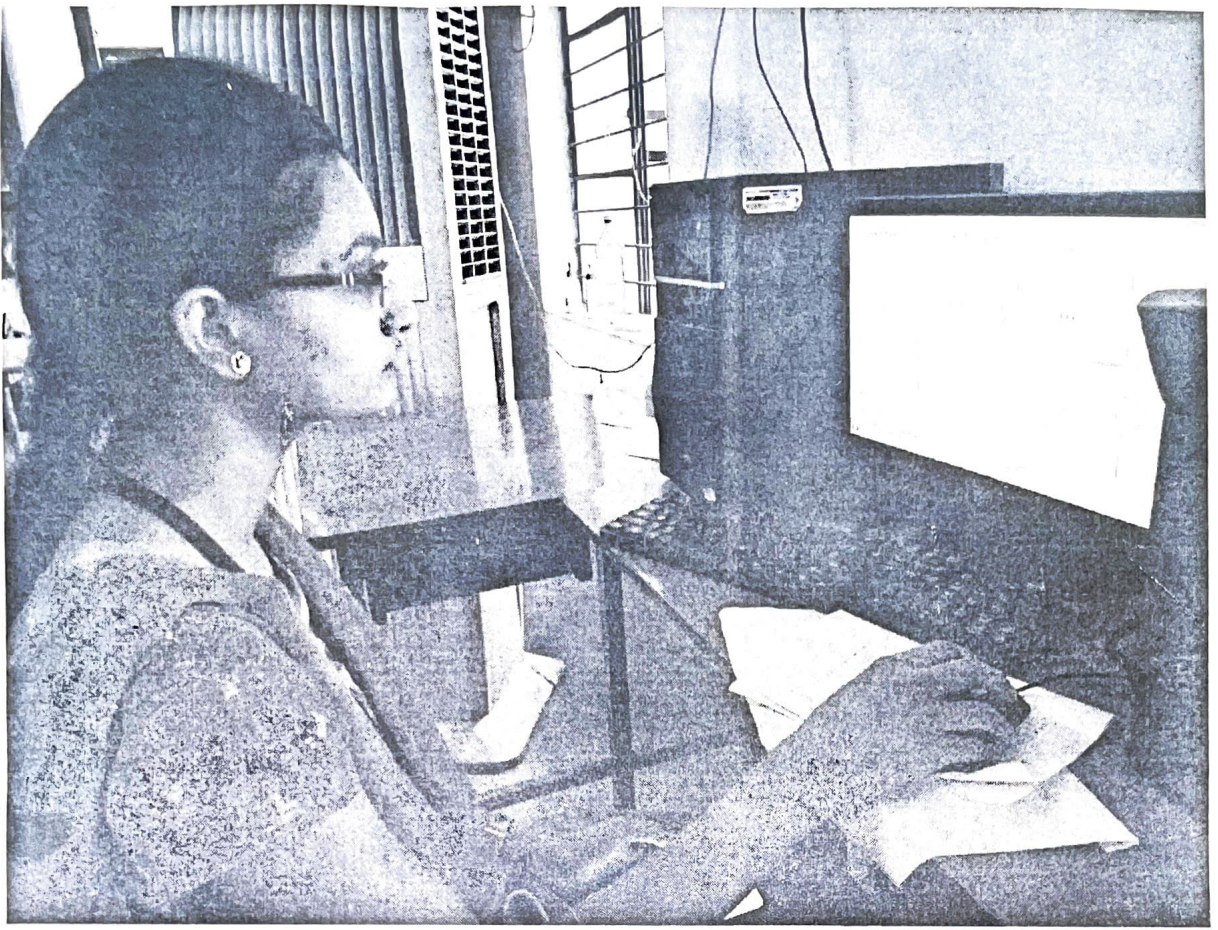
Yet another reason spreadsheets are extremely useful for data analysis is because of their ability to plot data. Rather than having to draw a graph by hand, you can just select the numbers you want to plot and the spreadsheet will do the work. Even better, if you change the numbers or formulas, the graph changes automatically. Still another advantage of a spreadsheet is that it can easily handle the **statistical analysis** of data sets with hundreds, thousands, or even tens of thousands of points, something that you would never want to try doing on a calculator. Several examples of functions that are particularly useful in analyzing real data are the **average**, the **standard deviation** and a least square fits of a straight line (known as a linear regression) to find the **slope** and the **intercept**.

Attendance. 2021 - 2022

S.N	Name	Group
1.	T. Jaya Nagasri	BT RC
2.	M. Pojitha	BTBBC
3.	Nethanya	BTBC
4.	M. Sai Sushma	MBC
5.	P. Tanischa	BT2C
6.	B. Manisha	BT2C
7.	P. Renuka	An2C
8.	G.S. Bhavana	BT2C
9.	B. Manasa	B2C
10.	A. Akhila	B2C
11.	V. Akshitha	BT2C
12.	D. Deepthi	B2C
13.	B. Hemalatha	B2C
14.	M. Shruthi	B2C
15.	G. Bhuvaneshwari	B2C
16.	K. Sanjutha	BTBC
17.	A. Sravani (07)	B2C
18.	C. Anitha	B2C

Topics (by date):

- 18/04 — chem Draw Introduction Download & Installation
- 19/04 — chemsketch Introduction Download & Installation
- 20/04 — Drawing of structures & Name generation
- 21/04 — Drawing of Inorganic complexes
- 5/05 — calculation of physical properties (Density, MPot, Mol. formula)
- 6/05 — ^1H NMR & ^{13}C NMR Prediction from molecular structure
- Assignment
- 11/05 — Assignment
- Drawing of Natural products
- 13/05 — Drawing of stereo isomers
- 14/05 — Introduction to Excel sheet
- Analysis of data
- Drawing of Bar diagrams
- Drawing of pie diagrams
- Practice session
- Practice session

Submit any of five compounds structures using chemdraw / chemsketch software along with chemical Name, Physical Properties, and spectral data.

1. Paracetamol
2. Aspirin
3. Isoquinoline
4. Quinoline
5. Anthracene
6. Sulfanilamide
7. Indole
8. Salicylic acid
9. Tryptophan
10. Pyrrole
11. Cinnamic acid
12. Styrene
13. Malonic acid
14. Ethyl acetoacetate
15. Phenanthrene

R Sangeetha
108519572026
BSC BTBC
FINAL YEAR

Anthracene

Paracetamol

HO

Isoquinoline

Quinoline

Boiling Point: 504.88 [K]
Melting Point: 321.35 [K]
Critical Temp: 770.49 [K]
Critical Pres: 44.15 [Bar]
Critical Vol: 402.5 [cm3/mol]
Gibbs Energy: 321.01 [kJ/mol]
Log P: 2.04
MR: 39.96 [cm3/mol]
Henry's Law: 4.55
Heat of Form: 231.3 [kJ/mol]
tPSA: 12.36

Indole
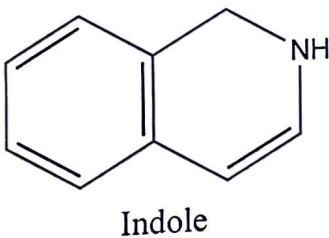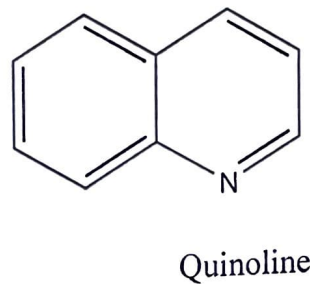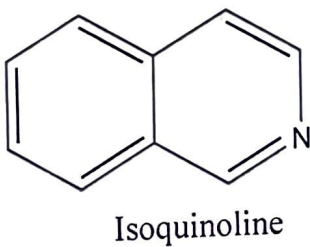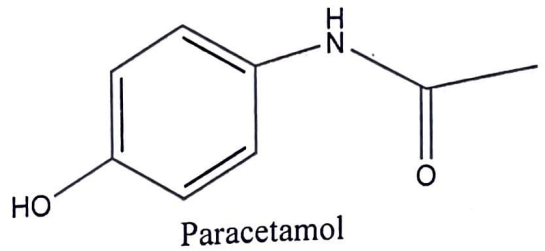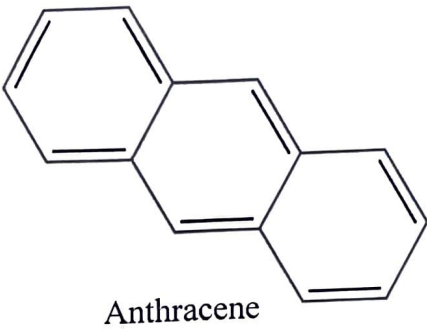
Boiling Point: 500.57 [K]
Melting Point: 354.08 [K]
Critical Temp: 757.27 [K]
Critical Pres: 43.45 [Bar]
Critical Vol: 404.5 [cm3/mol]
Gibbs Energy: 301.71 [kJ/mol]
Log P: 1.85
MR: 43.5 [cm3/mol]
Henry's Law: 1.47
Heat of Form: 178.54 [kJ/mol]
tPSA: 12.03

21/7/22

ChemNMR ¹H Estimation

Estimation quality is indicated by color: good, medium, rough
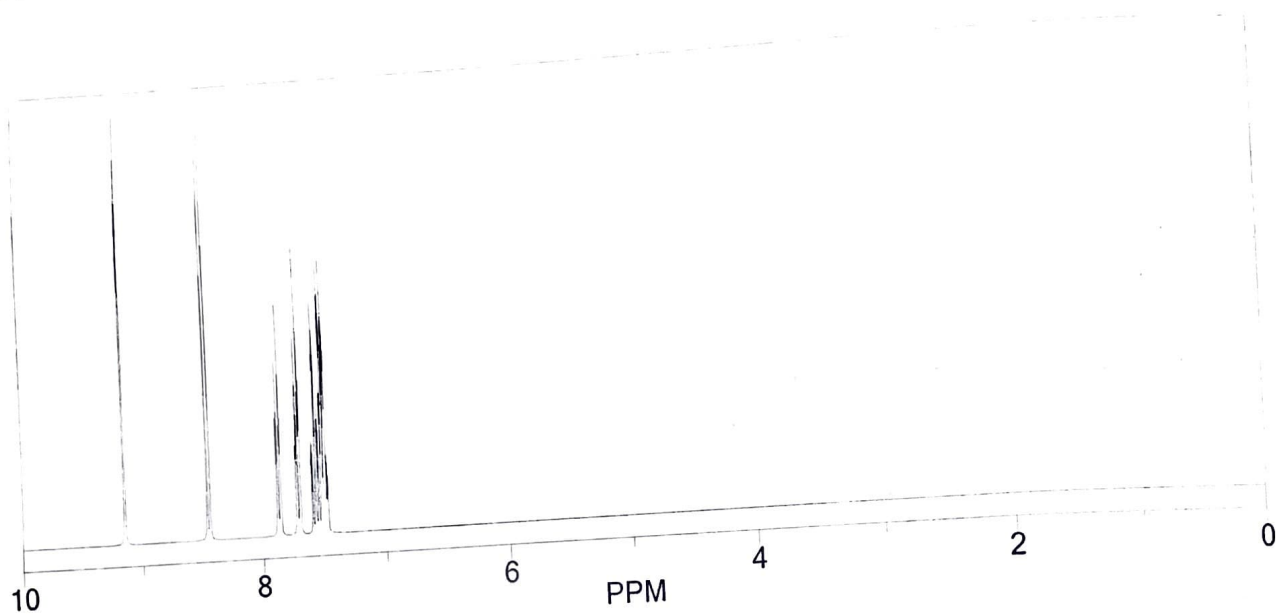
Protocol of the H-1 NMR Prediction:

Node	Shift	Base + Inc.	Comment (ppm rel. to TMS)
CH	9.15	9.15	isoquinoline
CH	8.45	8.45	isoquinoline
CH	7.50	7.50	isoquinoline
CH	7.87	7.87	isoquinoline
CH	7.71	7.71	isoquinoline
CH	7.50	7.50	isoquinoline
CH	7.57	7.57	isoquinoline

21/7/22

ChemNMR ^{1}H Estimation

R. Sangeetha
108517572026
BSC.Btbc Final year

Anthracene

Estimation quality is indicated by color: good, medium, rough

PPM
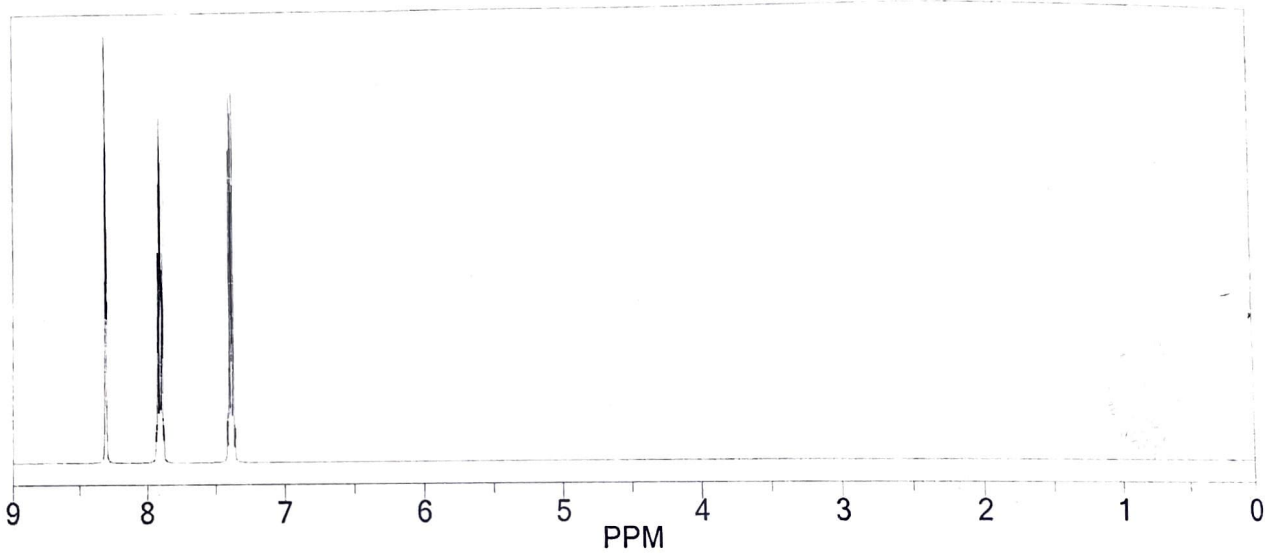
Protocol of the H-1 NMR Prediction:

```
Node      Shift      Base + Inc.    Comment (ppm rel. to TMS)

CH  8.31             8.31           anthracene
CH  8.31             8.31           anthracene
CH  7.91             7.91           anthracene
CH  7.91             7.91           anthracene
CH  7.91             7.91           anthracene
CH  7.91             7.91           anthracene
CH  7.39             7.39           anthracene
CH  7.39             7.39           anthracene
CH  7.39             7.39           anthracene
CH  7.39             7.39           anthracene
```

21/07/22

G. Bhuvaneswari

1085194445037

B·Sc BZC Final year

ChemNMR ¹H Estimation
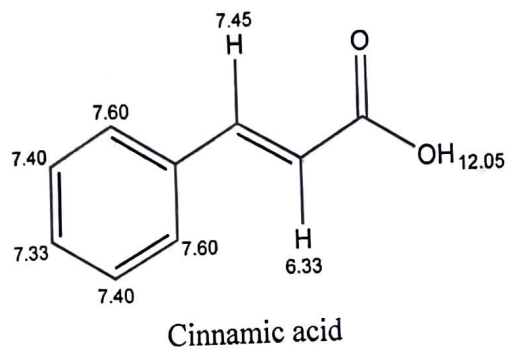
Cinnamic acid

Estimation quality is indicated by color: good, medium, rough

Protocol of the H-1 NMR Prediction:

Node	Shift	Base + Inc.	Comment (ppm rel. to TMS)
OH	12.05	11.00	carboxylic acid
		1.05	general corrections
CH	7.60	7.26	1-benzene
		0.04	1 -C=C
		0.30	general corrections
CH	7.60	7.26	1-benzene
		0.04	1 -C=C
		0.30	general corrections
CH	7.40	7.26	1-benzene
		-0.05	1 -C=C
		0.19	general corrections
CH	7.40	7.26	1-benzene
		-0.05	1 -C=C
		0.19	general corrections
CH	7.33	7.26	1-benzene
		-0.12	1 -C=C
		0.19	general corrections
H	7.45	5.25	1-ethylene
		1.38	1 -1:C*C*C*C*C*C*1 gem
		0.98	1 -C(=O)O cis
		-0.16	general corrections
H	6.33	5.25	1-ethylene
		0.36	1 -1:C*C*C*C*C*C*1 cis
		0.80	1 -C(=O)O gem
		-0.08	general corrections

GOVERNMENT DEGREE COLLEGE FOR WOMEN

(AUTONOMOUS)

BEGUMPET, HYDERABAD, TELANGANA

Accredited by NAAC with 'B + ' Grade

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that Ms.. studying in B.Sc

.............Year,   Roll.No...............................has   successfully

completed the Certificate Course in "*Hands on Training on CHEM*

DRAW and CHEM SKETCH software" conducted by the

Department of Chemistry during the academic year 2021-2022.

HOD

PRINCIPAL

GOVENRNMENT DEGREE COLLEGE FOR WOMEN (A), BEGUMPET, HYDERABAD
RE-ACCREDITED WITH "B+" GRADE BY NAAC
DEPARTMENT OF HINDI
SYLLABUS FOR CERTIFICATE COURSE
CREATIVE WRITING IN HINDI
BA/B.Sc /B.Com / BBA
2021 - 2022

Unit-I

1. कहानी, परिभाषा, तत्व, प्रकार, विविध प्रकार, विशेषताएं ।
2. कविता, परिभाषा, लेखन विधि, विशेषताएं, महत्व ।

Unit -II

3. निबंध, परिभाषा तत्व, प्रकार, लेखन विधि, विशेषताएं ।
4. पत्र , परिभाषा, लेखन विधि, तत्व, प्रकार, महत्व, विशेषताएं ।

Unit-III

5. अनुच्छेद, लेखन विधि, परिभाषा, विशेषताएं, महत्व ।
6. रिपोर्ट लेखन, परिभाषा, तत्व प्रकार, महत्व, विशेषताएं , उदाहरण ।

Unit-IV

7. संवाद लेखन, परिभाषा, विधि, महत्त्व , उदाहरण ।
8. विज्ञापन लेखन, परिभाषा ,विधि, महत्त्व, उदाहरण ।

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Board of Studies
Depatment of Hindi
Osmania University,Hyderabad-7

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GOVENRNMENT DEGREE COLLEGE FOR WOMEN (A), BEGUMPET, HYDERABAD
RE-ACCREDITED WITH "B+" GRADE BY NAAC
DEPARTMENT OF HINDI
PATTERN OF QUESTION PAPER FOR CERTIFICATE COURSE
IN CREATIVE WRITING
Hindi -2021-2022

Time 3 Hrs   **Marks .100**

निम्नलिखित प्रश्नों में से किन्ही पांच प्रश्नों के उत्तर लिखिए ?   **5 X 20 = 100 Marks**

1.   पत्र लेखन की परिभाषा और विशेषताएं बताइए।

2.   पत्र कितने प्रकार के होते हैं उनके संबंध में अपनी जानकारी दीजिए?

3.   अनुच्छेद लेखन की परिभाषा लिखकर उसकी विधि व नियम बताइए ?

4.   अनुच्छेद लेखन की विशेषताएं बताते हुए उदाहरण स्वरुप कोई एक अनुच्छेद लिखिए?

5.   संवाद लेखन की परिभाषा एवं विधि पर प्रकाश डालिए?

6.   अच्छे संवाद लेखन की विशेषता बताकर उदाहरण स्वरुप कोई एक संवाद का उल्लेख कीजिए ?

7.   निबंध की परिभाषा और अंगों का उल्लेख कीजिए ?

8.   पत्र लेखन की विधि और प्रकार बताइए ?

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Dr. PARVATI
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GOVENRNMENT DEGREE COLLEGE FOR WOMEN (A), BEGUMPET, HYDERABAD
RE-ACCREDITED WITH "B+" GRADE BY NAAC
Department of Hindi

IN CREATIVE WRITING

Course Outcome

Co.1.   To develop Reading Writing and communication skills in Hindi.

Co2.   To develop the writing concept in Story writing, Poetry writing, Letter writing, Essay writing, Dialog writing, reporting writing, Advertisement skill and Article writing in Hindi.

Co3.   To inculcate knowledge on social sense and language style

Program specific outcome

Po1.   Acquires the skill set to be placed as Teacher, Reporter, Editor, Typist.
Po2.   Higher studies can be continued in both Journalism and Literature.
Po3.   Develops vision regarding literary value.

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Board of Studies
Depatment of Hindi
Osmania University,Hyderabad-7

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Dr. PARVATI
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27/12/2021

Certificate Course

Dept. organized a one month Certificate Course on "Statistical methods Using R Programming" for B.sc (M.S.Cs/ M.S.Ds /MES) II Years on 27/12/2021 to 27/01/2022. The Resource Person for this Certificate Course was Ms. K. Bharathi, Asst. Prof of Computer Science, Loyola Academy, Alwal. For This Course 79 Students were Participated. The seperate Attendance Registered was maintained.

A Certificate Course on " **Statistical Methods using R programming**" by Ms. K.Bharat Asst. Prof in Computer Science, Loyola Academy, Alwal.

సర్టిఫికెట్ కోర్స్

రచనారీతులు:

మొదటి మరియు రెండవ సెమిస్టర్లలో

1. ఉపోద్ఘాతము

2. వ్యాసరచన

3. సంక్షిప్త రచన

4. విపులీకరణ

మూడు మరియు నాలుగు సెమిస్టర్ల లో

1. లేఖా రచన

2. కరపత్ర రచన

3. ప్రకటన రచన

4. సృజనాత్మక రచన

Bsc I yr II yr   For Certificate Course 2021-2022

1. K.Vaishnavi - BSC(MScs) 1st yr   xgash
2. S. Shirisha   "   S. Shirilu
3. S. Sushma   "   S. Sushma
4. A. Navya   "   A-Navya
5. Vaijayanthi Sona   "
6. B.Suraksha   "   B. Suit
7. B. Madhavi   "   B. Madhavi
8. B. Sruthi   "   B. Sruthi
9. M. Mounika   "   M. Mounika
10. D. Bhagya Lakshmi   "   D. Bhagyalakshmi.
11. K. Akhila   "   K. Akhila.
12. B. Geetha   y   B Geetha
13. B Lavanya   MCBS   B. Lavanya
14. M. Madhavi   BSCI(mscs) 1st year   Madhvi
15. M. Meghana   "   M. Meghana
16. M. Munitha   "   M. Munitha.
17. MD. shakeela   "   MD. Shakeela
18. Y. Madhavi   "   X. Madhavi
19. N Ganga Jamuna   "   N. Ganga Jamuna
20. B. Hari priya   "   B. Hari priya
21. G. Manogna   (BZC 1st year)
1. ch. Nikhitha.   (BZC 1st year)   ch. Nikhitha.
2. B. Manasa.   "   B. Manasa.
4) C. Anitha   "   C. Anitha
5) P. Aishwarya   "   P. Aishwarya
6) K. shireesha   "   K. Shirisha
7) M. Praveena   "   M. Praveena
8) S. Likitha   "   S. Likitha
9) R. Sravanthi   "   R. Sravanthi
10). D. Srinidhi   "   D. Srinidhi
31) B. Swathi   "   B. Swathi
32) N. Srilaya   "   N. Srilaya
33) M. Kasturi   "   M. Kasturi

No.	Name	Course	Year	Signature
34.	H. Sangeetha	BZC 1st year		H. Sangeetha
35.	T. Meghana	BZC 1st year		T. Meghana
36.	G. Manisha	BZC 1st year		G. Mani
37.	M. Triveni	BZC 1st yay		M. Triveni
38.	J. Shotha	BZC 1st year		J. Shotha
39.	K. Ramya	BZC 1st years		K. Ray
40.	A. Pooja	BZC 1st year		A. Pooja
41.	C. Swapna	BZC 1st year		C. Swapna
42	S. Sandhyarani	BZC 1st year		S. Sandhyarani
43.	G. Manjusha	BZC 1st year		G. Manjusha
44.	B. Shirisha	BZC 1st year		B. Shirisha
45.	E. ANKITHA	BSC MZC 1st yr		Ank
46.	B. Mounika	B.Sc. BZC 1st year		Mounika
47.	B. Hemalatha	BSC (B.Z.C) 1st year		Hemalathe
48	Y. Alekhya	B.ZC 1st year		Alekhya
49	V. Sindhu	B.ZC 1st year		V. Sindhu
50.	V. Mamatha	BZC 1st year		V. Mamatha
51.	B. Triveni	BZC 1st year		B. triven?
52.	A. Anusha	Bt2c 1st yeas		Anph
53.	A. Harshitha	Bt2c 1st yeas		Hshth
54	G. Bhavani	Bt2c 1st year		Bapni
55.	K. Saileela	Bt2c 1st yeas		Sailed
56.	M. Nandhini	Bt2c 1st yeal		Niif
57.	V. Tejaswini	B.A	2nd year (H.P.P)	Teja
58.	T. Bhavani	BA	2nd year (E.PS.CA)	Buf
59.	M. Jyothi	B.A	2nd year [EPP]	M. Jyothi
60.	J. Sri Harsha	B.A	2nd year [EPP]	Isirkharsha
61.	L. Bhavani	B.A	2nd year [HEPA]	L. Bhavan
62.	S. Anusha	B.A	2nd year (HEPA)	S. Anusha
63.	M. Gouthami	B.A	2nd year (HEPA)	m. Gouthami
64.	Ch. Sahithya	BA	2nd Yr (EPsCA)	Sahithya. Ch
65.	M. Anuradha	B.A	2n Yr [E Ps (A)]	M. Anu
66.	M. Pavanijatha	BA	2nd Yeed (HE(A))	Pavani

GOVERNMENT DEGREE COLLEGE FOR WOMEN, BEGUMPET
Dept. of Biotechnology and Zoology
CERTIFICATE COURSE ON MEDICAL CODING

Dt.03.11.2022

Seminar on career guidance in medical coding was organized for final year students on 03rd November 2022 by ARISE FOUNDATION.

Inaugural Session: Attended by faculty of Zoology and Biotechnology

Objective :

For the Students who require a job after graduation to support their family and higher education Medical coding can be a great career choice as qualified healthcare providers are always in high demand. Medical coders fulfill a vital role in the healthcare industry and flexible job timings make it easier.

Arise Foundation conducted an orientation program for final year life Science Students regarding how the entry level medical coders can improve their earning potential with skills and experience and also emphasized the need of Medical coders in the Market. The program also included how it eliminates the necessity for electronic medical billing and helps insurance companies and healthcare providers share patient information. and protection of patient records to unauthorized facilities.

The enrolled students were given 45 days Course during zero hours (8:00 to 9:00) in college premises and certificate was given after completion of the course

The Course was started on 03rd November 2022, It included -

Medical Terminology: Students are trained to learn to divide and combine difficult medical words to help you understand and meanings of these words.The last lesson on medical terminology teaches students to recognize common medical abbreviations, symbols and plural words. This lesson also discusses special terms such as eponyms, acronyms, homophones, and antonyms.

Documenting Medical Records: Students learn about the role medical records play in a coding specialist's job. They explore the importance of documentation in medical records and learn to recognize the various types of dictation formats. This lesson also discusses how healthcare professionals manage medical records.

Medical ethics: Concepts of ethics, compliance, fraud and abuse and teaches students how these concepts apply to medical coding specialists. Students also learn about the importance

of confidentiality when dealing with medical records and discuss insurance audits and the legal concepts.

Diagnostic Coding: Students are introduced to the actual coding process. Students learn about the history of the International Classification of Diseases and the development of the ICD-10-CM coding system. Additionally, students learn to identify main terms and sub terms and describe coding pathways. Students learn to handle abbreviations, cross references, and punctuation when coding, and they gain an introduction to Volumes I and II of the ICD-10-CM.

OUTCOME OF THE PROGRAM:

Students start coding diagnoses. Students learn about infections, parasitic diseases, and neoplasms, as well as how to code them. The Students were also taught Basics of computer , Excel.

Certificates were distributed by Dr.K.Padmavathi,PrincipalGDC FOR Women,Begumpet

No.of students attended:75.

ARISE FOUNDATION
Regd.74/2014
Affiliated withNehru Yuva Kendra Sa
Ministry of Youth Affairs &
Government of India

VOCATIONAL TRA

Address:1-4-64/1A, Bholakpu