



Dr. K.V. Subba Reddy Institute of Pharmacy

(Approved by AICTE, P.C.I New Delhi & Affiliated to JNTUA Anantapuramu,
MoU with Government General Hospital & KMC, Kurnool)

Opp. Dupadu Railway Station, Lakshmipuram (Po), N.H - 44, KURNOOL - 518 218, A.P. INDIA

Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

2.3 Student centric methods such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers used ICT Enabled tools including online resources for effective teaching and learning process (AY:2019-20)

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K.V. Venkatesh
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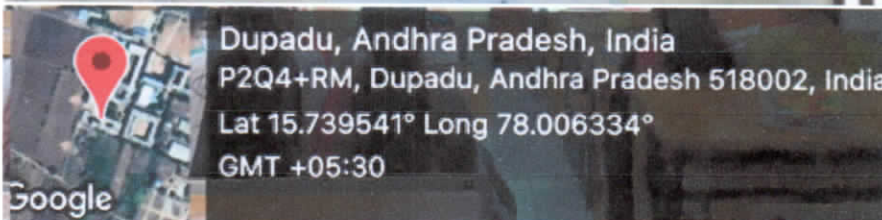
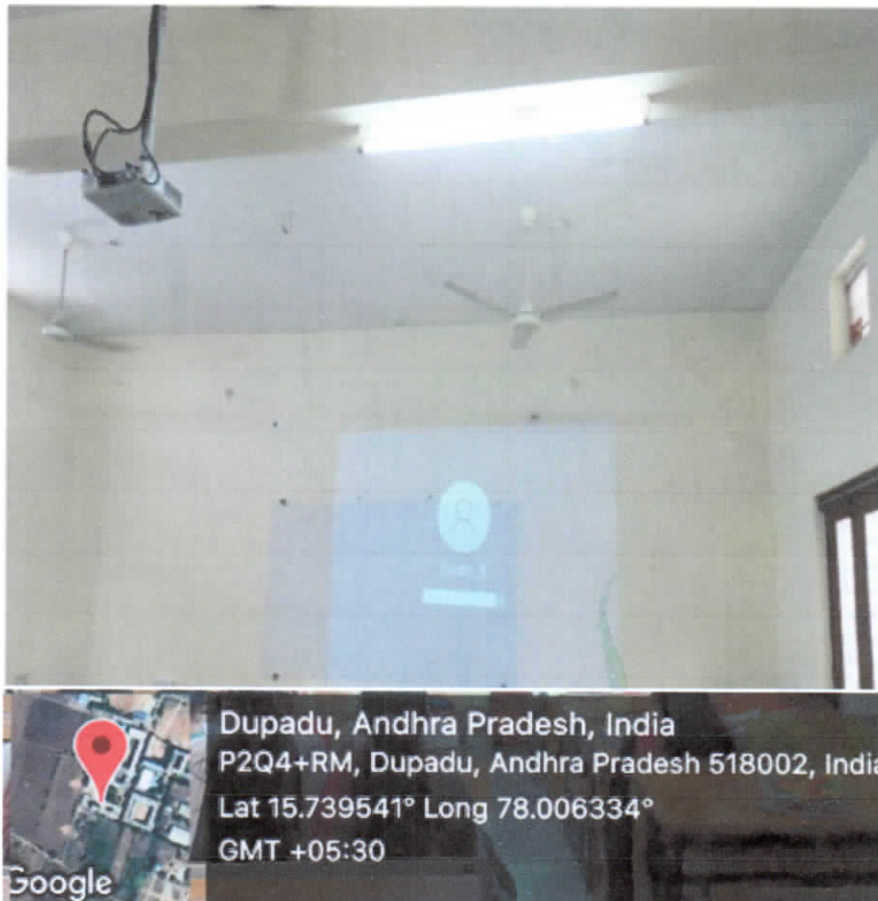
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LCD PROJECTORS

Spacious, well-lit and well-ventilated classrooms and seminar hall [with ICT] with comfortable seating arrangement are available for smooth conduct of UG and PG theory sessions. Besides the conventional teaching aids, classrooms are also equipped with state-of-the-art audiovisual technology viz. digital smart board, LCD Projectors, thus stepping up the teaching-learning experience to next higher level. Well-thought positioning of aisle in the classroom ensure proper interaction between teacher and students



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e-mail : principalkvsrip@gmail.com

The list of various ICT enabled pedagogical initiatives used by the faculty members for improving teaching and learning experience are as follows:

Chalk and board: To convey basics, critical information, backgrounds, theories .



Fig1.1:Miss.Dr.S Kusuma kumari Assistant professor of department of Pharmacy Practice explaining basic Pharmacotherapy for Pharm D IV year students of pharmacy using chalk and board



Fig1.1:Mrs.B.Aruna Assistant professor of department of Pharmacology explaining concept of Anti Convulsants for B.Pharmacy II year students of pharmacy using chalk and board.

S. Aruna
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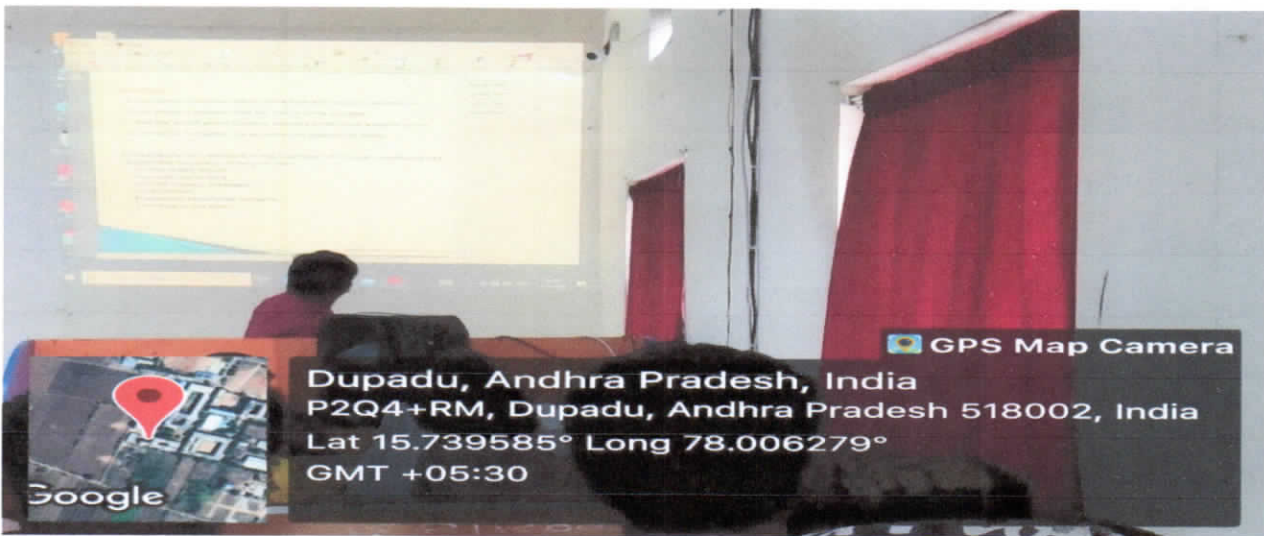


Fig: 1.2 Mr.Dr. K. Chandra Sekhar Assistant professor of department of Pharmaceutical Chemistry explains the concepts of Medicinal Chemistry using LCD projector.

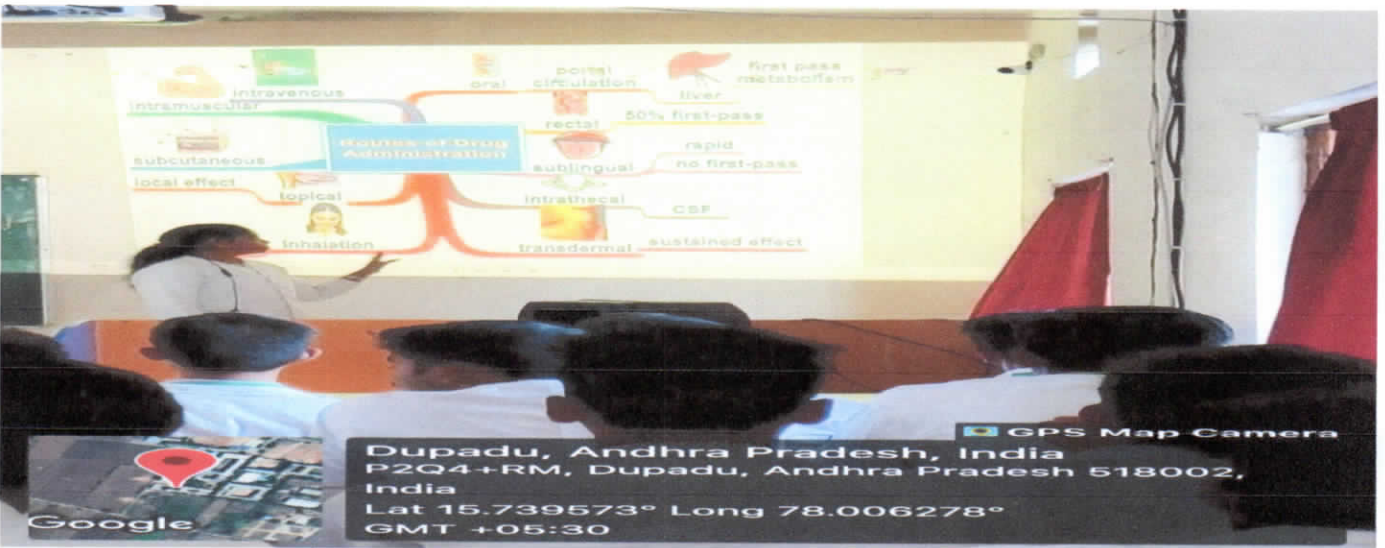


Fig1:3 Ms. E.Honey madam explaining about routes of drug administration's to Pharm.D III Year students

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ONLINE TEACHING :

Especially during Covid-19 pandemic situation made a swift transition from classroom to online teaching by using platforms like Google meet, Google classroom, ZOOM, CISCO, WEB-EX, and You tube.

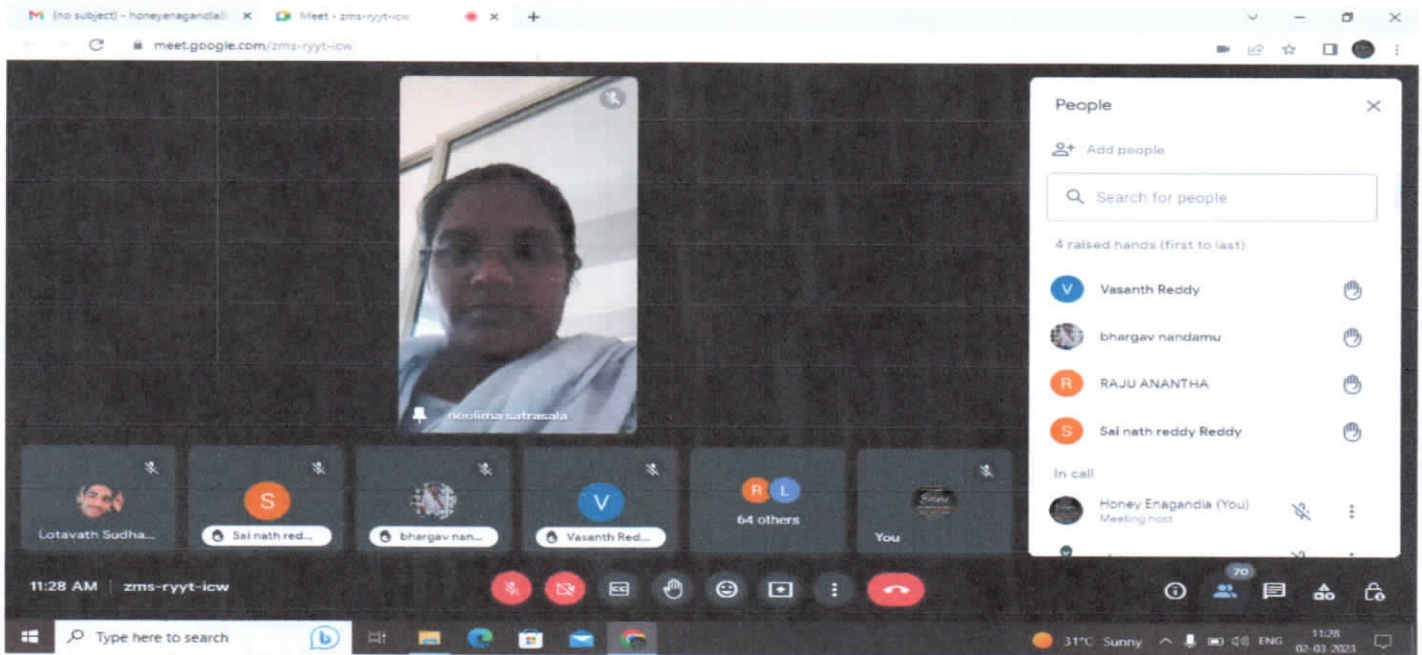
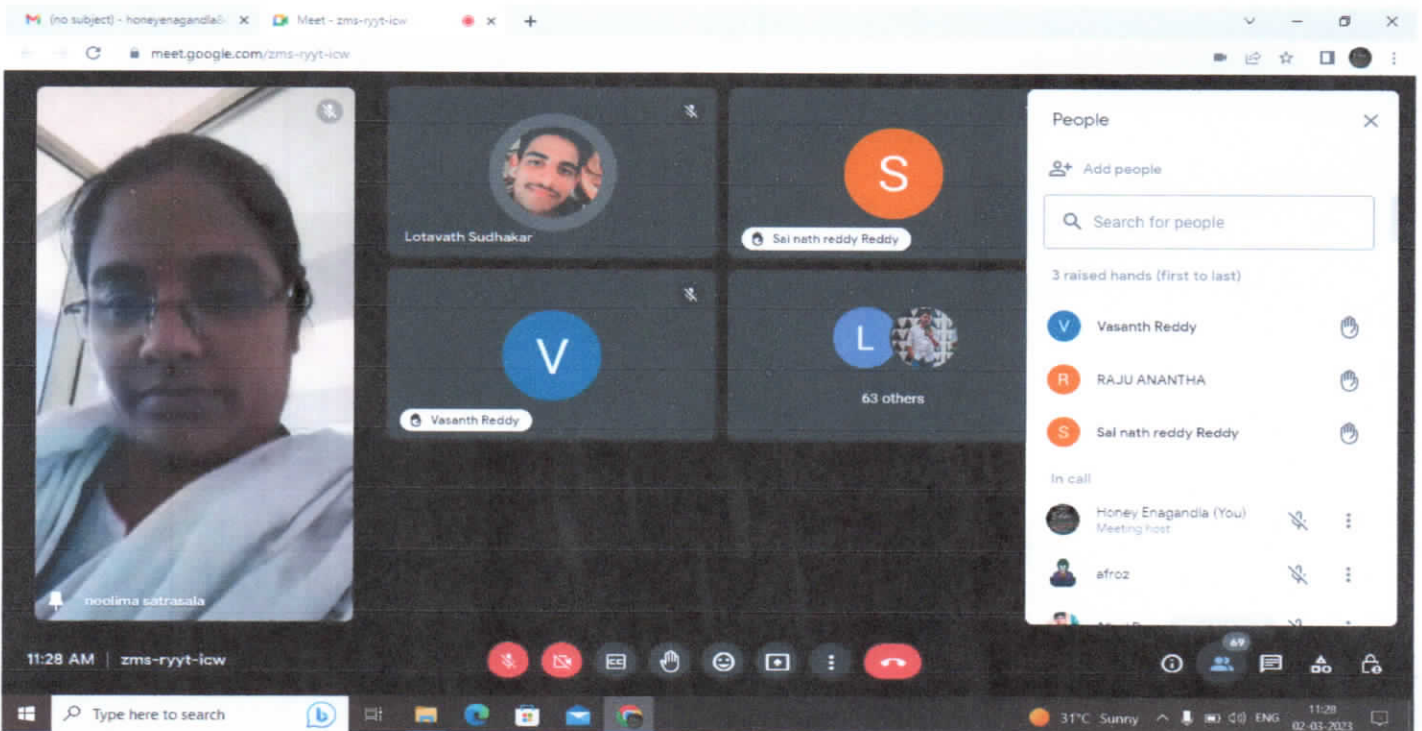


Fig 1.1 Dr.K.Vennela madam discussing about the therapy of Epilepsy to Pharm.D III Year students.



Schemana
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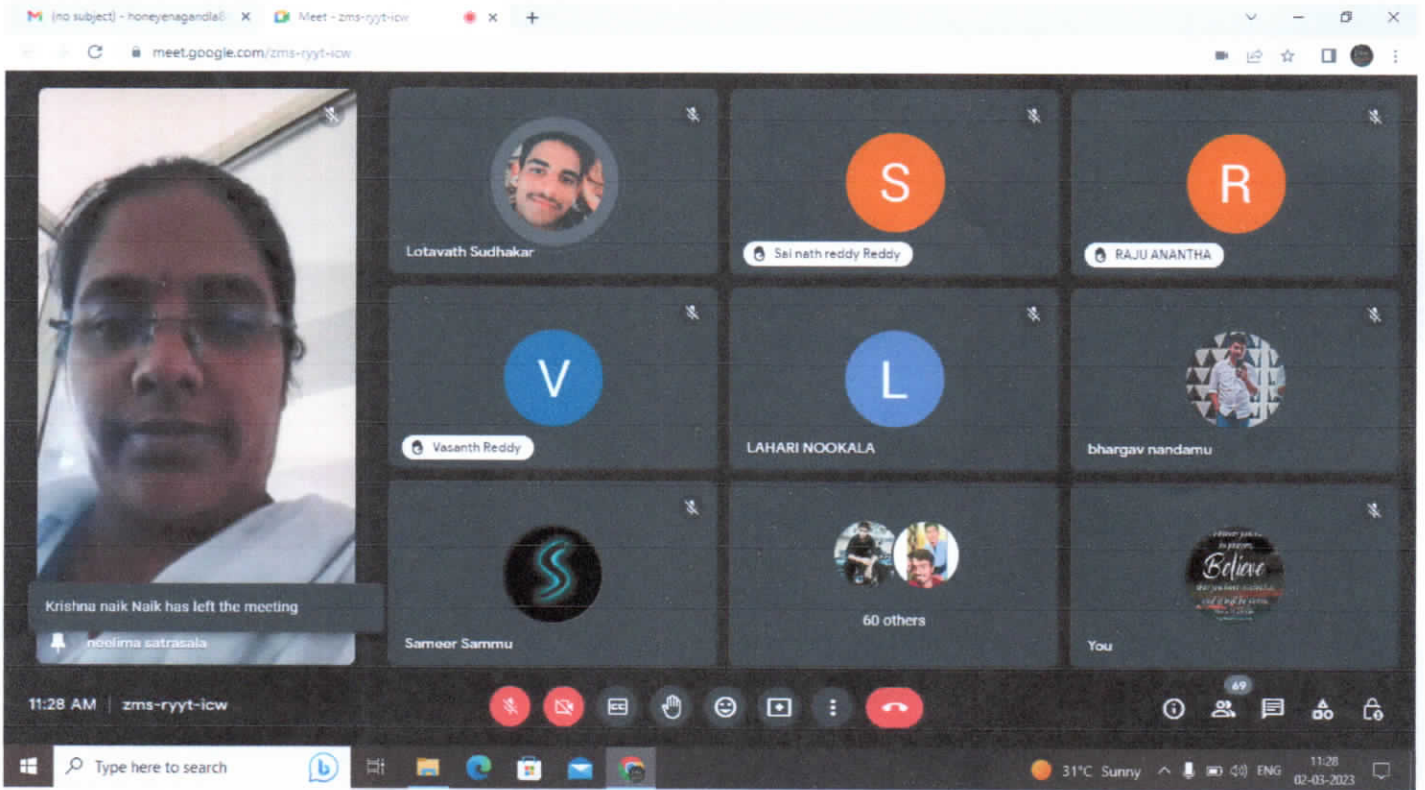
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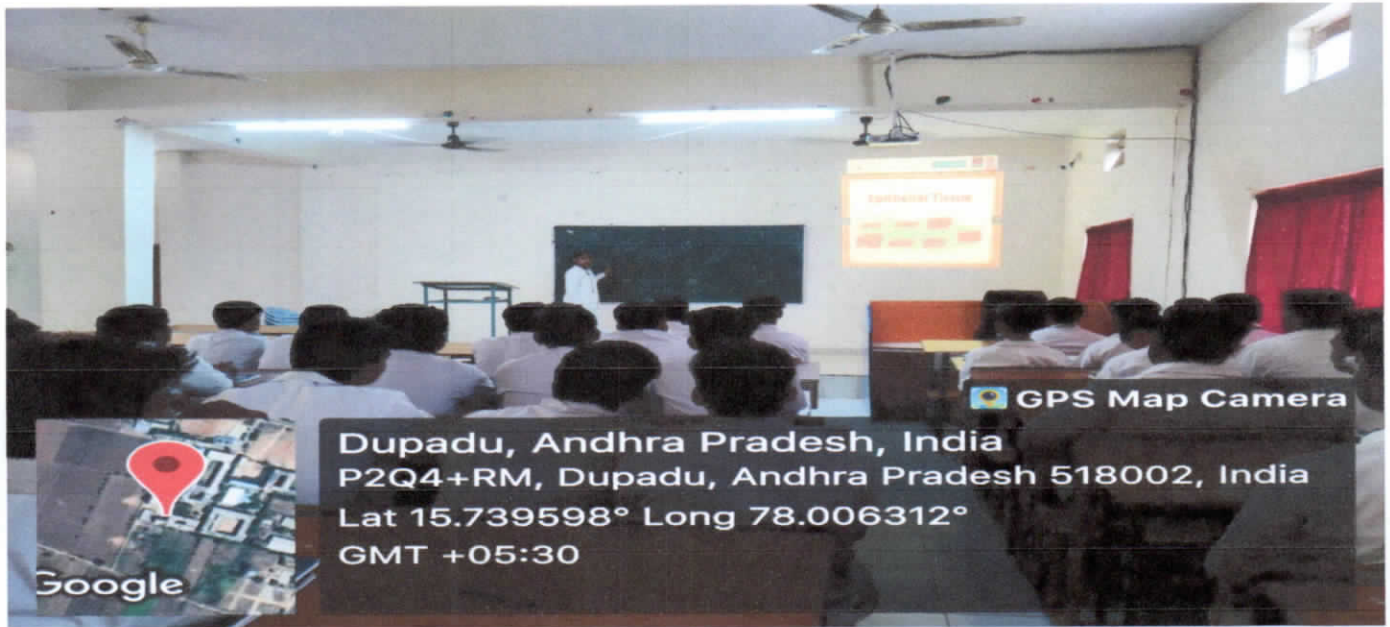
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BLENDDED TEACHING:

Teaching aid techniques such as video lectures and PowerPoint presentations are being used for the implementation of active learning strategies such as collaborative and individual learning activities.

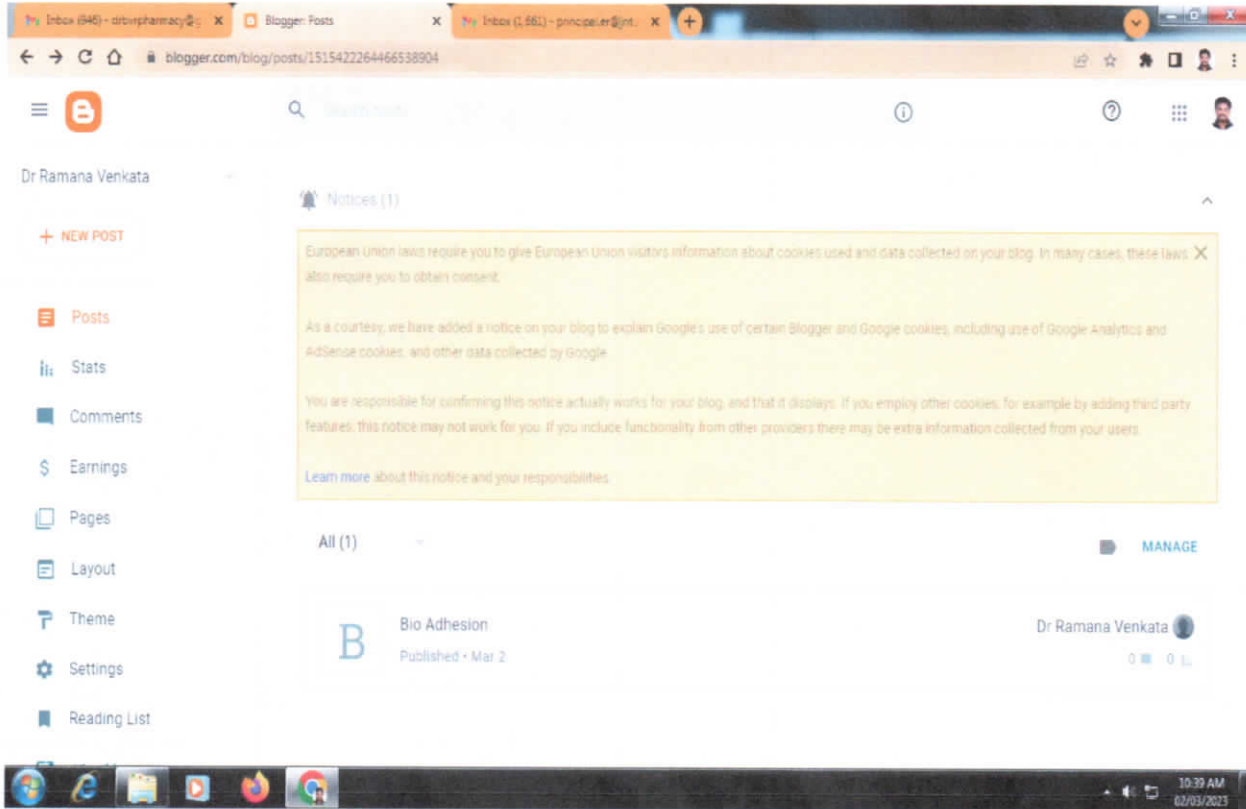


Ms. E. Honey madam explaining about Epithelial Tissue & its types to Pharm.D III Year students

Hemama
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Edu-Blogs: Faculty blogs and channels are used as instructional potential of online resources to students.



Silwanu
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INDUSTRIAL TRAINING:22/06/2019-06/07/2019

Industrial training, where a student undertakes a period of training at an organization usually during a semester break, acts as an important part in preparing the student for a professional career. With the actively involved preparation, the student learns about the industrial demands, skill set and work ethics.

Every year students experience industrial training as per the syllabus prescribed in JNTUA and gain knowledge of various departments like Formulation and research department (FR&D) i.e., Manufacturing of Tablets, capsules and injection preparations etc., Quality Assurance, Quality control, Clinical research, Drug regulatory affairs, Hospital Pharmacy etc. as such III year B.Pharmacy students have visited, SANZYME LTD.HEALTHCARE BUSINESS, Telangana-502307, Hyderabad, Telangana-5000 72, India and received hands on experience about industry affairs.



Sulemana.
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サンザイム
Sanzyme Ltd.
Healthcare Business

Ref: SAN / PROJ / 2019/KVSR/Hiq-23

Date: 6th JULY, 2019

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Mr. SHAIK SHAHID** is a bonafide student of **Dr.K.V.SUBBA REDDY INSTITUTE OF PHARMACY, KURNOOL**. He has undergone industrial training in our organization from 22.06.2019 to 06.07.2019 as part of partial fulfillment of his B. Pharmacy course bearing Hall Ticket No **16ER1R0033**.

During the training period he had interacted with Quality control, Quality Assurance & Production Departments in charges and acquired basic knowledge in these areas.

During this aforesaid period, we found his hardworking, sincere and learning attitude.

We wish him A Bright Future.

Form SANZYME (P) LTD.

HEAD - FACTORY (INJ)



cc to: HR Department;
cc: to Project trainee file.

Unit 2 : Formulation Unit, 7-4-92, Survey No: 219, Gaganpahad, Hyderabad.
Phone : 040-32909537, 38 & Fax No : 040-24360459

Regd. Office : Plot No.13, Sagar Society, Road No.2, Banjara Hills, Hyderabad-500 034
Phone : 23554270, 23553892, 23554271, Fax : 040-23542213

S. Hemanna
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P)

Ref: SAN / PROJ / 2019/KVSR/Hiq-22

Date: 6th JULY, 2019

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Miss. A GAYATHRI is a bonafide student of Dr.K.V.SUBBA REDDY INSTITUTE OF PHARMACY, KURNOOL. She has undergone industrial training in our organization from 22.06.2019 to 06.07.2019 as part of partial fulfillment of her B. Pharmacy course bearing Hall Ticket No 16ER1R0053.

During the training period she had interacted with Quality control, Quality Assurance & Production Departments In charges and acquired basic knowledge in these areas.

During this aforesaid period, we found her hardworking, sincere and learning attitude.

We wish her A Bright Future.

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Regd. Office : Plot No.13, Sagar Society, Road No.2, Banjara Hills, Hyderabad-500 034
Phone : 23554270, 23553892, 23554271, Fax : 040-23542213

Allemena

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KURNOOL-518218 (A.P)

Ref: SAN / PROJ / 2019/KVSR/HIq-20

Date: 6th JULY, 2019

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Mr. A. ALTHAF HUSSAIN** is a bonafide student of **Dr.K.V.SUBBA REDDY INSTITUTE OF PHARMACY, KURNOOL**. He has undergone industrial training in our organization from 22.06.2019 to 06.07.2019 as part of partial fulfillment of his B. Pharmacy course bearing Hall Ticket No **16ER1R0059**.

During the training period he had interacted with Quality control, Quality Assurance & Production Departments in charges and acquired basic knowledge in these areas.

During this aforesaid period, we found his hardworking, sincere and learning attitude.

We wish him A Bright Future.

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Phone : 23554270, 23553892, 23554271, Fax : 040-23542213

S. Ramana
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INTERNSHIPS:

DEPARTMENT OF PHARM.D STUDENTS INTERNSHIP REPORT

Academic Year: 2014-20

Batch: 2014

Internship Title:

The Pharm.D institutions are aligned with adjacent hospitals in order to provide real-time training including ward rounds. Students are acknowledged with practical in clinical pharmacy and medical pharmacy. After completion of the course, students are gained with the skills in diagnosis, therapeutic usage of drugs, treatment and selection of diseases.

Internship Period: 06-03-2019 to 11-03-2020

Company/ Organization: Kurnool General Hospital, Kurnool

Students Feedback:

FACTORS ON FEEDBACK		Very Poor	Poor	Satisfactory	Good	Excellent
FACTOR: WARD ROUNDS						
1.	The tasks given are related to the subjects that I have learned in the institution.				5	2
2.	The tasks given are Challenging and testing your mettle.			1	1	5
3.	The tasks given were able to complete within the given duration.				3	4
FACTOR: CLINICAL AND MEDICAL PHARMACY SKILLS						
4.	The work environment is suitable for training of industrial trainee.			1	6	

5.	The colleagues provide good support and respective of industrial trainees.			1	4	2
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FACTOR: IN DIAGNOSIS SKILLS

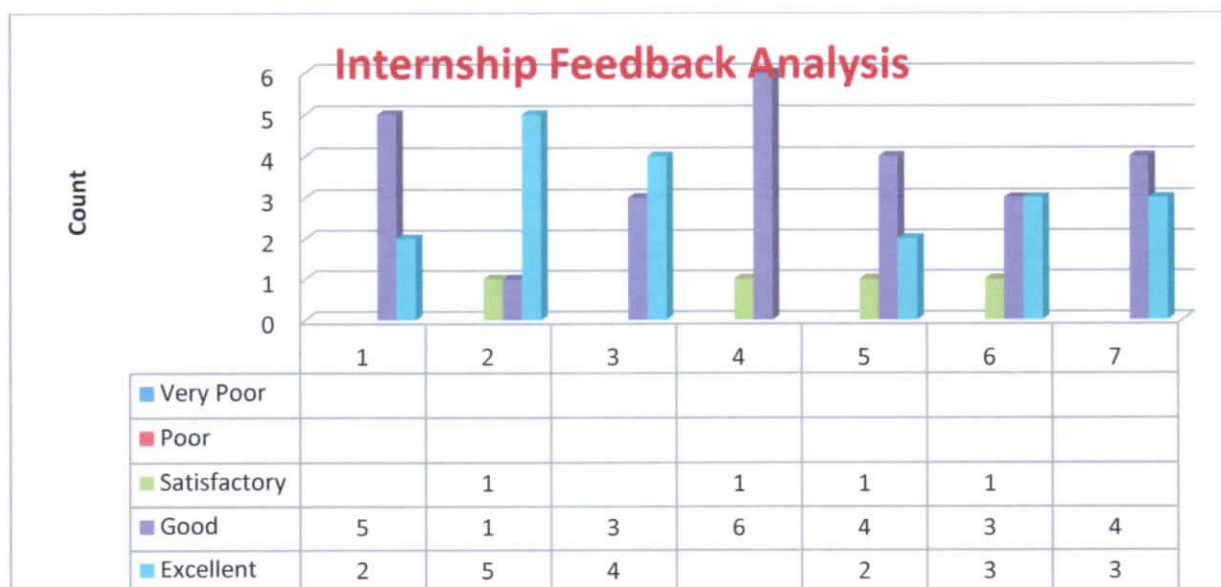
6.	The training attended has prepared me well to work in the industry in terms of knowledge.			1	3	3
----	---	--	--	---	---	---

7.	The overall learning in the institution had helped me to go through industrial training with confidence.				4	3
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FACTOR: THERAPEUTIC USAGE OF THE DRUGS

8	The training attended has prepared me well to work in the industry in terms of knowledge.			1	3	3
---	---	--	--	---	---	---

9	The overall learning in the institution had helped me to go through industrial training with confidence.					43
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B. Venema
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Impact Analysis:

The Internship help the students in the following ways.

- ✓ All the students got Valuable Work Experience
- ✓ Students can present papers in journals/conferences.
- ✓ Students can get placements in Companies.
- ✓ Students can easily choose right career.
- ✓ They will also get multiple Job opportunities.

HOD

Shemona
PRINCIPAL

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NH 44, Opp Dupadu Railway Station, Lakshimpuram (Post),
Kurnool - 518218 (A.P) INDIA.

Certificate for Internship

This is to certify that Mr/Ms. Amalanthala Ashok with
Vide Regd No. 14ERIT0001 has successfully completed his/her internship as per
the curriculum of Pharm.D (Doctor of Pharmacy) prescribed under the regulation 16 and
Appendix C of Pharm.D Regulations 2008 of Pharmacy Council of India (PCI), New Delhi and
Jawaharlal Nehru Technological University Anantapur (JNTU/A), Anantapuramu at Government
General Hospital, Kurnool from 6/8/2019 to 11/8/2020 and it was Excellent

DEPARTMENT	TOTAL DURATION (IN MONTHS)
GENERAL MEDICINE	6 months
PEDIATRICS	2 months
PSYCHIATRY	2 months
GYNCOLOGY	2 months

S. Venkanna
Principal

Srinivasan
Principal
Govt. General Hospital
Kurnool

Srinivasan
Principal
Dr. K.V.S.R. Institute of Pharmacy
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Certificate for Internship

This is to certify that Mr/Ms. Maddala Anusha with
Vide Regd No. 14ERIT0002 has successfully completed his/her internship as per
the curriculum of Pharm.D (Doctor of Pharmacy) prescribed under the regulation 16 and
Appendix C of Pharm.D Regulations 2008 of Pharmacy Council of India (PCI), New Delhi and
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GENERAL MEDICINE	6 months
PEDIATRICS	2 months
PSYCHIATRY	2 months
GYNCOLOGY	2 months

Dr. C. Rama
Principal

Srinivasan
Principal
Govt. General Hospital
Kurnool

Srinivasan
Principal
Dr. K.V.S.R. Institute of Pharmacy
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Certificate for Internship

This is to certify that Mr/Ms. Aluri Dinesh Kumar with
Vide Regd No. 14ERIT0004 has successfully completed his/her internship as per
the curriculum of Pharm.D (Doctor of Pharmacy) prescribed under the regulation 16 and
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Dr. S. Venkanna
Principal

Srinivasan
Principal
Govt. General Hospital
Kurnool

Srinivasan
Principal
Dr. K.V.S.R. Institute of Pharmacy
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Certificate for Internship

This is to certify that Mr/Ms. Shakti Triana with
Vide Regd No. 14ERIT0006 has successfully completed his/her internship as per
the curriculum of Pharm.D (Doctor of Pharmacy) prescribed under the regulation 16 and
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Principal

Srinivasan
Principal
Govt. General Hospital
Kurnool

Srinivasan
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GYNCOLOGY	2 months

Principal

Superintendent
 Govt. General Hospital
 Kurnool

Principal
 Dr. K.V.S.R. Institute of Pharmacy
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Certificate for Internship

This is to certify that Mr/Ms Sayifa koorthana with
 Vide Regd No. 14HERIT0007 has successfully completed his/her internship as per
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Superintendent
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Principal
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Certificate for Internship

This is to certify that Mr/Ms Shaik mahammad Akbar with
 Vide Regd No. 14HERIT0009 has successfully completed his/her internship as per
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PSYCHIATRY	2 months
GYNCOLOGY	2 months

Principal

Superintendent
 Govt. General Hospital
 Kurnool

Principal
 Dr. K.V.S.R. Institute of Pharmacy
 Opp. Dupadu R.S. N.H.
 Kurnool-518218

Certificate for Internship

This is to certify that Mr/Ms Nagella Prem chandra Reddy with
 Vide Regd No. 14HERIT0012 has successfully completed his/her internship as per
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Superintendent
 Govt. General Hospital
 Kurnool

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 Kurnool-518218

S. Sumanth
PRINCIPAL
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NH 44, Opp Dupadu Railway Station, Lakshimpuram (Post),
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Certificate for Internship

This is to certify that Mr/Ms A. Radhika with
Vide Regd No. 14ERT0008 has successfully completed his/her internship as per
the curriculum of Pharm.D (Doctor of Pharmacy) prescribed under the regulation 16 and
Appendix C of Pharm.D Regulations 2008 of Pharmacy Council of India (PCI), New Delhi and
Jawaharlal Nehru Technological University Anantapur (JNTU A), Anantapuramu at Government
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PEDIATRICS	2 months
PSYCHIATRY	2 months
GYNECOLOGY	2 months

Dr. C. Lenka
Preceptor

[Signature]
Govt. General Hospital
Kurnool

[Signature]
Principal
Dr. K.V.S.R. Institute of Pharm.
Opp. Dupadu R.S. N.H. 44
Kurnool-518218



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Certificate for Internship

This is to certify that Mr/Ms Aeman Shaheen with
Vide Regd No. 14ERT0014 has successfully completed his/her internship as per
the curriculum of Pharm.D (Doctor of Pharmacy) prescribed under the regulation 16 and
Appendix C of Pharm.D Regulations 2008 of Pharmacy Council of India (PCI), New Delhi and
Jawaharlal Nehru Technological University Anantapur (JNTU A), Anantapuramu at Government
General Hospital, Kurnool from 6/8/2019 to 11/8/2020 and it was Excellent

DEPARTMENT	TOTAL DURATION (IN MONTHS)
GENERAL MEDICINE	6 months
PEDIATRICS	2 months
PSYCHIATRY	2 months
GYNECOLOGY	2 months

[Signature]
Preceptor

[Signature]
Govt. General Hospital
Kurnool

[Signature]
Principal
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Kurnool-518218



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NH 44, Opp Dupadu, Railway Station, Lakshimpuram (Post),
Kurnool - 518218 (A.P.) INDIA.

Certificate for Internship

This is to certify that Mr/Ms Ramam Sivalakala with
Vide Regd No. 14ERT0015 has successfully completed his/her internship as per
the curriculum of Pharm.D (Doctor of Pharmacy) prescribed under the regulation 16 and
Appendix C of Pharm.D Regulations 2008 of Pharmacy Council of India (PCI), New Delhi and
Jawaharlal Nehru Technological University Anantapur (JNTU A), Anantapuramu at Government
General Hospital, Kurnool from 6/8/2019 to 11/8/2020 and it was Excellent

DEPARTMENT	TOTAL DURATION (IN MONTHS)
GENERAL MEDICINE	6 months
PEDIATRICS	2 months
PSYCHIATRY	2 months
GYNECOLOGY	2 months

A. V. Manasa
Preceptor

[Signature]
Govt. General Hospital
Kurnool

[Signature]
Principal
Dr. K.V.S.R. Institute of Pharm.
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NH 44, Opp Dupadu Railway Station, Lakshimpuram (Post),
Kurnool - 518218 (A.P.) INDIA.

Certificate for Internship

This is to certify that Mr/Ms Nidiganti Suvarna Lakshmi with
Vide Regd No. 14ERT0016 has successfully completed his/her internship as per
the curriculum of Pharm.D (Doctor of Pharmacy) prescribed under the regulation 16 and
Appendix C of Pharm.D Regulations 2008 of Pharmacy Council of India (PCI), New Delhi and
Jawaharlal Nehru Technological University Anantapur (JNTU A), Anantapuramu at Government
General Hospital, Kurnool from 6/8/2019 to 11/8/2020 and it was Excellent

DEPARTMENT	TOTAL DURATION (IN MONTHS)
GENERAL MEDICINE	6 months
PEDIATRICS	2 months
PSYCHIATRY	2 months
GYNECOLOGY	2 months

[Signature]
Preceptor

[Signature]
Govt. General Hospital
Kurnool

[Signature]
Principal
Dr. K.V.S.R. Institute of Pharm.
Opp. Dupadu R.S. N.H. 44
Kurnool-518218

S. Manasa

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Dr. K.V.S.R. Institute of Pharmacy
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Kurnool - 518218 (A.P) INDIA

Certificate for Internship

This is to certify that Mr/Ms P. Swetha with
Vide Regd No. 14HER10017 has successfully completed his/her internship as per
the curriculum of Pharm.D (Doctor of Pharmacy) prescribed under the regulation 16 and
Appendix C of Pharm.D Regulations-2008 of Pharmacy Council of India (PCI), New Delhi and
Jawaharlal Nehru Technological University Anantapur (JNTU-A), Anantapuramu at Government
General Hospital, Kurnool from 6/3/2019 to 11/3/2020 and it was Excellent

DEPARTMENT	TOTAL DURATION (IN MONTHS)
GENERAL MEDICINE	6 months
PEDIATRICS	2 months
PSYCHIATRY	2 months
GYNCOLOGY	2 months

[Signature]

[Signature]
Superintendent (FAC)
Govt. General Hospital
(KMC-Kurnool)

[Signature]
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Certificate for Internship

This is to certify that Mr/Ms Kamitkar Sriprya with
Vide Regd No. 14HER10018 has successfully completed his/her internship as per
the curriculum of Pharm.D (Doctor of Pharmacy) prescribed under the regulation 16 and
Appendix C of Pharm.D Regulations-2008 of Pharmacy Council of India (PCI), New Delhi and
Jawaharlal Nehru Technological University Anantapur (JNTU-A), Anantapuramu at Government
General Hospital, Kurnool from 6/3/2019 to 11/3/2020 and it was Excellent

DEPARTMENT	TOTAL DURATION (IN MONTHS)
GENERAL MEDICINE	6 months
PEDIATRICS	2 months
PSYCHIATRY	2 months
GYNCOLOGY	2 months

[Signature]

[Signature]
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Govt. General Hospital
(KMC-Kurnool)

[Signature]
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DR. K.V.S.R. Institute of Pharmacy
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Certificate for Internship

This is to certify that Mr/Ms Shaik Mohammed Muazzama with
Vide Regd No. 14HER10019 has successfully completed his/her internship as per
the curriculum of Pharm.D (Doctor of Pharmacy) prescribed under the regulation 16 and
Appendix C of Pharm.D Regulations-2008 of Pharmacy Council of India (PCI), New Delhi and
Jawaharlal Nehru Technological University Anantapur (JNTU-A), Anantapuramu at Government
General Hospital, Kurnool from 6/3/2019 to 11/3/2020 and it was Satisfactory

DEPARTMENT	TOTAL DURATION (IN MONTHS)
GENERAL MEDICINE	6 months
PEDIATRICS	2 months
PSYCHIATRY	2 months
GYNCOLOGY	2 months

[Signature]

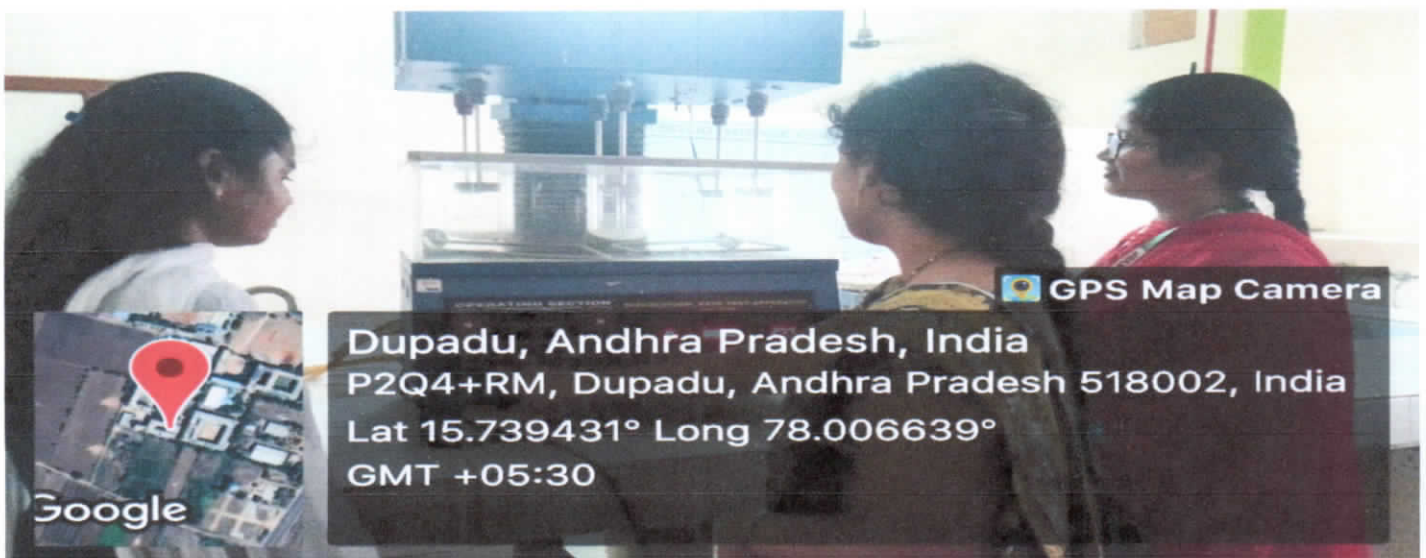
[Signature]
Superintendent (FAC)
Govt. General Hospital
(KMC-Kurnool)

[Signature]
Principal
DR. K.V.S.R. Institute of Pharmacy
Opp. Dupadu R.S. N.H.
KURNOOL-518218

[Signature]
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy,
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P)

HANDS – ON LEARNING

B. Pharmacy, Pharm.D & Pharm.D (PB) and M. Pharmacy students gain knowledge in theory by taking part in the pragmatic learning in various laboratories located within the institute. Faculty has designed various experiments according to the syllabus assigned by the JNTUA. Students gain practical awareness through live activities and handling the instruments such as Pharmaceutical Analysis instruments operation UV – Visible Spectrophotometry, HPLC, Pharmacology laboratory experiments with animals, and Pharmaceutical Chemistry etc.,



I/II Pharm.D students learning about dissolution in the Pharmaceutics Lab.



III B.Pharmacy students learning about Rotarod apparatus in the Pharmacology Lab

M. Suman
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

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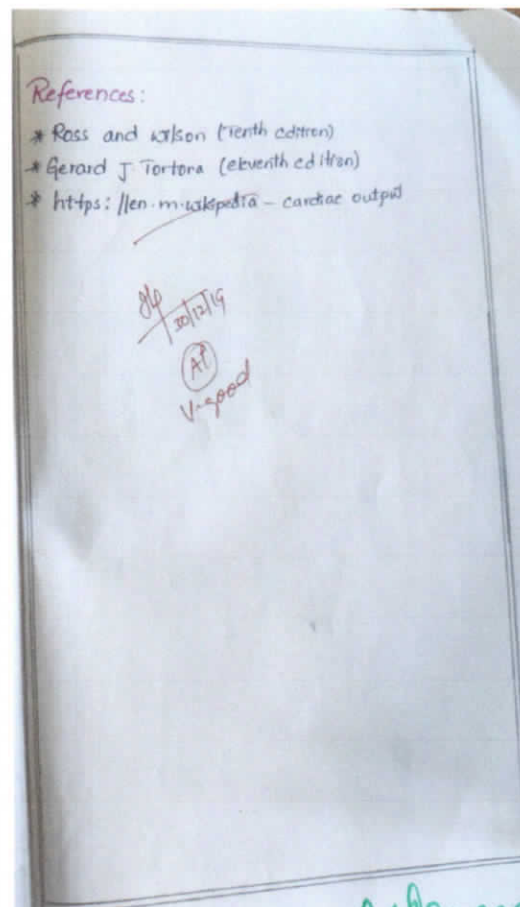
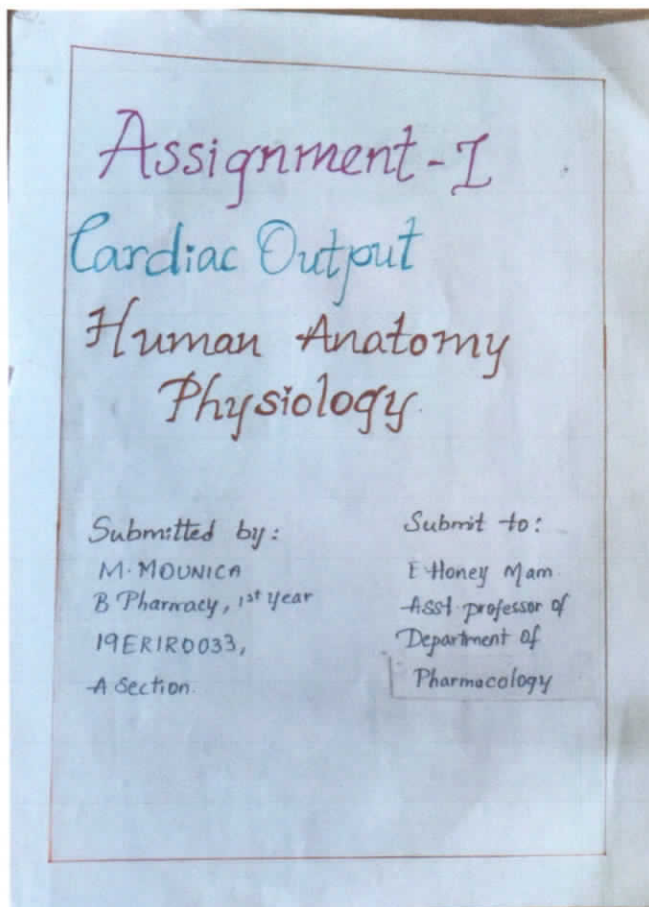
Opp. Dupadu Railway Station, Lakshmiapuram (Po), N.H - 44, KURNOOL - 518 218, A.P. INDIA.

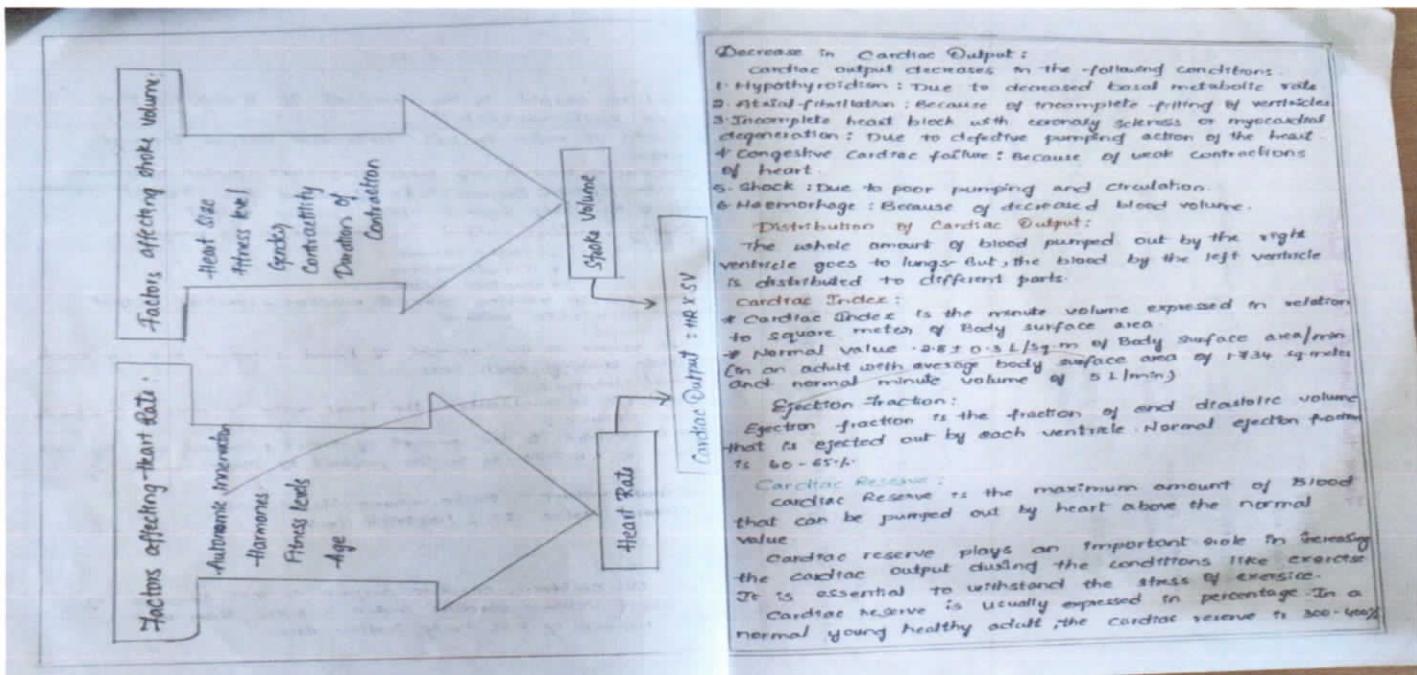
Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

ASSIGNMENTS

Assignments are the part of the internal examination evaluation process, in which would be immense value as additional learning instruments. Many types of assignments can be given to students of all such as essays, literature reviews, critical reviews, reflective journals, annotated bibliographies and case studies, depends upon the need and learning situations. It implies a task for students to accomplish the aim of learning particular contents, concepts or relationships etc., in this text, learning assignments involve students' independent information seeking and use of a wide range of information resources which are available for them. So every semester/year students are assigned with 2 or 3 topics per each subject regarding to their syllabus and asked to gather more relevant information. Allotment of marks to students is given according to their task completion. Through this student are enriched with knowledge regarding of topic, proof reading of and presentation techniques.





Decrease in Cardiac Output:
 Cardiac output decreases in the following conditions:

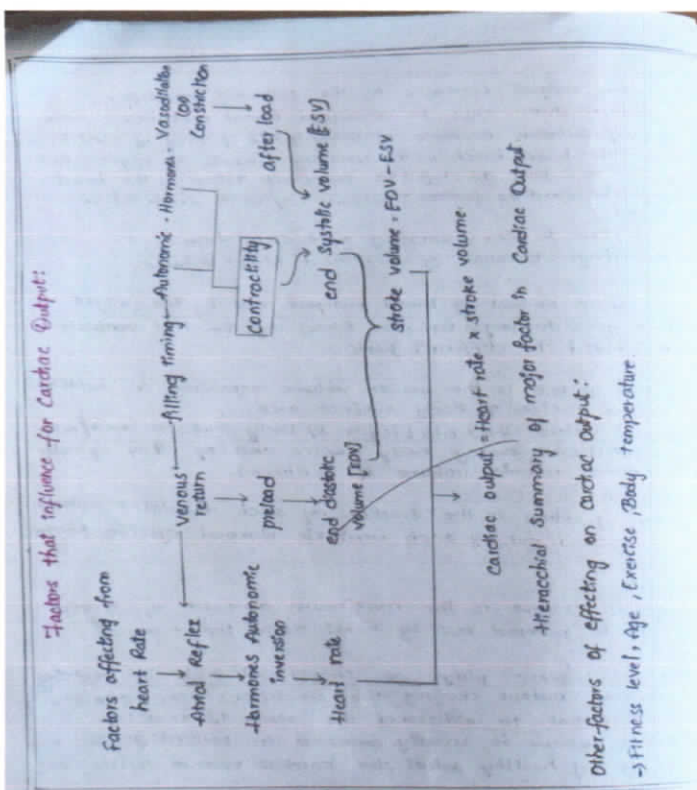
1. Hypothyroidism: Due to decreased basal metabolic rate.
2. Atrial fibrillation: Because of incomplete filling of ventricle.
3. Incomplete heart block with coronary sclerosis or myocardial degeneration: Due to defective pumping action of the heart.
4. Congestive cardiac failure: Because of weak contractions of heart.
5. Shock: Due to poor pumping and circulation.
6. Haemorrhage: Because of decreased blood volume.

Distribution of Cardiac Output:
 The whole amount of blood pumped out by the right ventricle goes to lungs but, the blood by the left ventricle is distributed to different parts.

Cardiac Index:
 * Cardiac Index is the minute volume expressed in relation to square meter of Body surface area.
 → Normal value: 2.83 l/m² of Body surface area/min.
 (In an adult with average body surface area of 1.734 m² and normal minute volume of 5 l/min)

Ejection Fraction:
 Ejection fraction is the fraction of end diastolic volume that is ejected out by each ventricle. Normal ejection fraction is 60-65%.

Cardiac Reserve:
 Cardiac Reserve is the maximum amount of blood that can be pumped out by heart above the normal value.
 Cardiac reserve plays an important role in increasing the cardiac output during the conditions like exercise. It is essential to withstand the stress of exercise.
 Cardiac reserve is usually expressed in percentage. In a normal young healthy adult, the cardiac reserve is 300-400%.



Sex: In females, cardiac output is less than in males because of less blood volume. Cardiac index is more than in males, because of less body surface area.

1) **Body Build:** Greater the body build, more is their less than in males because of less blood volume. Cardiac index is more than in males, because of less body surface area.

2) **Diurnal Variation:** Cardiac output is low in early morning & increases in day time. It depends upon the basal conditions of the individuals.

3) **Environment temperature:** moderate change in temperature does not affect cardiac output. Increase in temperature above 30°C raises cardiac output.

4) **Emotional Conditions:** Anxiety, apprehension & excitement increases cardiac output about 50-100%.

5) **After meals:** During the first 1 hour after taking meals, cardiac output increases.

6) **Exercise:** Cardiac output increases during exercise because of increase in heart rate and force of contraction.

7) **High altitude:** In high altitude, the cardiac output increases because of increase in secretion of adrenaline. Adrenaline secretion is stimulated by hypoxia (lack of O₂).

8) **Posture:** while changing from recumbent to upright position, the cardiac output decreases.

9) **Pregnancy:** During the later months of pregnancy, cardiac output increases by 40%.

10) **Sleep:** Cardiac output is slightly decreased as it is unaltered during sleep.

Pathological Variations:

Increase in Cardiac Output:
 Cardiac output increases in the following conditions:

1. Fever: Due to increased oxidative processes.
2. Anemia: Due to hypoxia.
3. Hyperthyroidism: Due to increased basal metabolic rate.

Sikemana
 PRINCIPAL
 Dr. K.V.S.R. Institute of Pharmacy
 Opp. Dup...
 KURNOOL-518 110 (A.P.)



Dr. K.V. Subba Reddy Institute of Pharmacy

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Website : www.drkvsrip.in e-mail : principalkvsrip@gmail.com

INNOVATIVE MODEL MAKING:

Students are guided to prepare scientific models through Pharma Expo. The main aim of conducting Pharma Expo is to integrate knowledge within a course, a major, or across an entire Program of study to associate the concepts. This enables students to understand and remember the relationship among various concepts, structures or species.



Model making competition conducted by B.Aruna,Assistant professor,Department of pharmacology



Sukanya
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp. Dupadu Railway Station, N.H-44,
KURNOOL-518218, A.P.



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PROJECT BASED LEARNING:

Project based learning is a teaching method where students gain knowledge and skill by working for an extended period of time to investigate and respond to an authentic, engaging and complex questions, problems or challenges. It is not only provides opportunities for students to collaborate with or drive their own learning, but also teaches those skills such as problem solving and helps to develop additional skills integral to their future such as critical thinking and time management. So every year IV B. Pharmacy, V year Pharm.D and II year M. Pharmacy students are allotted with a project under the supervision/guidance of faculty to be completed within an academic year. Marks are allotted to projects according to their performance, project results, presentation and viva-voice. Research and review articles of their projects are published by students in various national and international journals.

Sukanya
PRINCIPAL
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B.PHARMACY PROJECT TITLES (AY 19-20)

BATCH	REG.NO	NAME OF THE STUDENT	GUIDE	PROJECT TITLE	DEPARTMRNT
1	16ER1R0042	S. SUJATHA	Dr.G.Nagarajan	Synthesis and biological activity of isatin derivatives	PH.CHEMISTRY
	16ER1R0045	K. SUPRAJA			
	16ER1R0053	A.GAYATHRI			
	16ER1R0075	C.SHIVA			
	16ER1R0089	Y.MANO HAR			
	16ER1R0024	M. PAVAN KUMAR REDDY			
2	16ER1R0022	M. PAVANI	Dr.B.V.Ramana	: Formulation and Evaluation of floating in situ gel of Atorvastatin	PHARMACEUTICS
	16ER1R0083	P.TASLEEMA BEGUM			
	16ER1R0006	P. DIVYA SREE			
	16ER1R0090	K.MAHESH TEJA			
	16ER1R0030	S. SAMEER BASHA			
3	16ER1R0010	P. HASEENA	Mr.R.Jona Methusala	Phytochemical screening and Anthelmintic activity of ethanolic leaf extract of Ocimum basilicum	PHARMACOLOGY
	16ER1R0084	G.YAMINI			
	16ER1R0070	B.RITEESH KUMAR			
	16ER1R0076	P.SHRAVANI			
	16ER1R0019	K. MOHANACHARI			
4	16ER1R0001	S. AMREEN	Mr.Chandrasekhar	: Design and Synthesis of Fluorescent Probes For Hydrazine Sensing	PH.CHEMISTRY
	16ER1R0011	R. HEMALATHA			
	16ER1R0023	M. PAVAN KUMAR			
	16ER1R0077	M.SNEHA			
	16ER1R0043	P. SUMA			
5	16ER1R0002	U.AMRUTHA	Ms.IVL Padmini	"Formulation & Evaluation of Caffeine loaded Solid Lipid Nanoparticles to Treat Clinical Mastitis	PHARMACOLOGY
	16ER1R0081	B. SUSHMITHA			
	16ER1R0080	B.SURENDRA BABU			
	16ER1R0029	S. RUBEENA			
	17ER5R0002	M. NAVEEN KUMAR			
6	16ER1R0051	J. ARUNA	Ms.Sara Sirisha	: Simultaneous estimation of atazanavir and cobicistat in bulk and pharmaceutical dosage from by RP-HPLC method	PH.ANALYSIS
	16ER1R0054	T. GRACE .N.			
	16ER1R0025	B. PRATUHYUSHA			
	16ER1R0035	SHAIK SADDAM HUSSAIN			
	16ER1R0037	P. SHARATH BABU			
7	16ER1R0044	P. SUMANJALI	Ms.Mohana Priya	Anthelmintic activity of methanol extraction of Gymnema sylvestre	PH.CHEMISTRY
	16ER1R0063	M.KAVYA			
	16ER1R0074	S.SHAGUFTASALOMI			
	17ER5R0004	G. SIVA RAJU			
8	16ER1R0012	S. JALIL	Ms.IVL Padmini	Formulation and Evaluation of Transdermal Films and Creams of Celecoxib Inclusions for treating Psoriatic Arthritis	PHARMACEUTICS
	16ER1R0017	J. MANASA			
	16ER1R0028	N. ROOPA RANI			
	16ER1R0041	SUDHARSHAN			
	16ER1R0056	G. SAI KUMAR			

	16ER1R0057	G. SIVA PULLAREDDY			
9	16ER1R0026	B. PRAVEEN RAJ	Mr.KRSC.Bharath	Preparation, formulation and evaluation of metformin hydrochloride microspheres	PHARMACEUTICS
	16ER1R0061	C.GUNA NIKHILA			
	16ER1R0008	N. FARIHA AFROZE			
	16ER1R0033	S. SHAHID			
	16ER1R0055	S. M. AMEEN BASHA			
	16ER1R0020	A.NAGEWARA RAO			
10	16ER1R0040	P. SUCHARITHA	Ms.E.Honey	Evaluation of anthelmintic activity and phytochemical screening of methanolic leaf extract of leucas zeylanica.	PHARMACOLOGY
	16ER1R0079	Y. SRI TEJA			
	16ER1R0018	P. MARY			
	16ER1R0034	D. SHAIK AHEMAD			
	16ER1R0047	B. UDAY KUMAR			
11	16ER1R0049	T. VANDANA	Mr.R.Naganjaneyulu	: Pharmacognostical, Phytochemical And Antimicrobial Activity of Adiantum Capillus- veneris	PHARMACOGNOSY
	16ER1R0014	R. LAKSHMI BAI			
	16ER1R0021	G. PAVANI			
	16ER1R0004	Balaswamy			
	16ER1R0050	N. UMA MAHESWAR			
	16ER1R0013	Z. KALYANI			
12	16ER1R0052	G. BHAVANA	Ms.Afreen	Formulation and Evaluation of Momordica charantia Fast Dissolving Oral Films Used for the Treatment of Diabetes mellitus	PHARMACEUTICS
	16ER1R0071	ROHINI			
	16ER1R0015	M. MAHESH			
	16ER1R0058	A.VASANT MADHAV			
13	16ER1R0031	K. SANA	Ms.Aruna	EVALUATION OF CARMINATIVE ACTIVITY OF ETHANOLIC EXTRACT OF	PHARMACOLOGY
	16ER1R0046	B. SUREKHA			
	16ER1R0067	T.RAMA JYOTHI			
	16ER1R0059	A.ALTHAF HUSSAIN			
	16ER1R0073	V.SASHIKUMAR			
14	16ER1R0027	K. RAJANI	Ms.Venu Madhuri	: Invitro Screening Of Antacid activity of Ethanol and Aqueous Extract of Carica papaya leaves by Rosette rice Method	PHARMACOLOGY
	16ER1R0038	P. SRILATHA			
	16ER1R0087	G.ANUSHA			
	16ER1R0032	G. SANTOSH KUMAR			
	16ER1R0036	SHAIK SHAKEER			
15	16ER1R0009	B.GANGADHAR	Ms.E.Honey	Evaluation of antimicrobial activity and phytochemical screening of ethanolic extracts of Cinnamon zeylanicum	PHARMACOLOGY
	16ER1R0066	S. M. ZIYAULLAH			
	16ER1R0065	G.MARUTHI			
	16ER1R0068	R.RAMANJANEYULU			
	16ER1R0039	P. SUBHAN			
	16ER1R0072	K.SAI DINESH			

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 Dr. K.V.S.R. Institute of Pharmacy
 Opp: Dupadu R.S. N.H.-44
 KURNOOL-518213 (A.P.)
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Subramana
PRINCIPAL
 Dr. K.V.S.R. Institute of Pharmacy
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PHARM.D V/VI PROJECT LISTS

BATCH	REG.NO	NAME OF THE STUDENT	GUIDE	PROJECT TITLE	DEPARTMENT
I	15ER1T0014	S.TARUN	DR.S. BASHEER	EVALUATION OF CLINICAL PHARMACY SERVICES PROVIDE BY THE CLINICAL PHARMACIST IN THE INPATIENT	GENERAL MEDICINE
	15ER1T0020	S.NAYEEM			
	15ER1T0025	C.ROHITH SIRI SUBRAMANYAM			
II	15ER1T0004	M.HABIBURRAHMAN	DR.S.KUSUMA KUMARI	Safety & efficacy of nebulizer solbutamol & antibiotics in broncho pneumonia patients of pediatrics	PEDIATRICS
	15ER1T0006	M.HARI PRASAD			
	15ER1T0024	D.VINAY KUMAR			
III	15ER1T0005	M.HARISH	S.AFREEN	CLINICAL PROFILE & TREATMENT EVALUATION OF CHILDREN ADMITTED WITH NEPHROTIC SYNDROME IN THE PEDIATRIC DEPARTMENT	PEDIATRICS
	15ER1T0021	AMAL SAJEEV			
	15ER1T0026	K.SHIVAKUMAR			
IV	15ER1T0007	R.MOUNISA	DR.G.NAGARAJAN	INCIDENCE OF RISK FACTORD & DRUG UTILIZATION EVALUATION IN CEREBRO VASCULAR ATTACK AT TERTIARY CARE TEACHING HOSPITAL	NEUROLOGY
	15ER1T0023	T.RISHIKA REDDY			
	15ER1T0022	CH.SHARMILA			
V	15ER1T0009	U.PRATHYUSHA	R.JONAMETHUSALA	A STUDY ON EPIDEMOLOGICAL & MANAGEMENT EVALUATION OF HYPERTENSIVE DISORDER OF PREGNANCY	GENERAL MEDICINE
	15ER1T0010	N.SAMREEN			
	15Y01T0019	D.YASMIN			
VI	15ER1T0008	V.PRAVALLIKA	DR.K.VENNELA	A PROSPECTIVE STUDY ON RISK FACTORS & DRUG UTILIZATION EVALUATION BASED ON CLINICAL PROFILES IN CHRONIC KIDNRY DISEASES IN NEPHROLOGY UNIT IN A TRRIATARY CARE TEACHIND HOSPITAL	NEPHROLOGY
	15ER1T0013	P.SOWMYA			
	15Y01T0017	M.VINEELA			
VIIS	15ER1T0015	A.VIHARIKA	DR.B.V.RAMANA	MONITOTING CLINICAL PROFILES & DRUG UTILIZATION REVIEW IN BIPOLAR PATIENTS UNSING ANTI PSYCHOTICS, ANTI DEPRESSANTS & MOOD STABILIZERS MEDICATION IN PSYCHIATEY UNIT OF A TERTIARY CARE HOSPITAL	NEPHROLOGY
	15ER1T0016	G.VIJAYA BHARATHI			
	15Y01T0011	D.SHIRISHA			

Subbamma
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
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DESIGN AND SYNTHESIS OF FLUORESCENT PROBES FOR HYDRAZINE SENSING

A DISSERTATION SUBMITTED TO THE
JAWAHAR LAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR,
ANDHRAPRADESH.

SUBMITTED BY

S.AMREEN (16ER1R0001)

R.HEMALATHA (16ER1R0011)

M.PAVAN KUMAR (16ER1R0023)

P.SUMA (16ER1R0043)

M.SNEHA (16ER1R0077)

In the partial fulfillment of the requirement for the award of degree of

BACHELOR OF PHARMACY

Under the guidance of

Dr .K. CHANDRASEKHAR , M.S.Pharm, Ph.D

Associate Professor, Department of Pharmaceutical
1 Chemistry,

Dr. K. V. Subba Reddy Institute of Pharmacy,

Department of Pharmaceutical Chemistry



DR.K.V.SUBBA REDDY INSTITUTE OF PHARMACY
DUPADU, KURNOOL-518218, AP
BATCH 2016-2020

B. Hemana
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

Dr. K.V. SUBBAREDDY INSTITUTE OF PHARMACY

Approved by AICTE & PCI New Delhi, affiliated to JNTU Anantapuramu, MoU

with Government General Hospital, KMC, Kurnool)

OPP: Dupadu RS, N.H-44, Lakshmipuram (Post), Kurnool-518218

E-mail: principalkvsrip@gmail.com



CERTIFICATE

This is to certify that the dissertation entitled “**DESIGN AND SYNTHESIS OF FLUORESCENT PROBES FOR HYDRAZINE SENSING**” was done for the partial fulfillment for the award of degree of bachelor of pharmacy in Pharmaceutical Chemistry has been carried out by **S. AMREEN(16ER1R0001), R. HEMALATHA(16ER1R0011), M. PAVANKUMAR(16ER1R0023), P. SUMA (16ER1R0043), M. SNEHA(16ER1R0077)**, under the guidance and supervision of **Dr. K. CHANDRASEKHAR, M.S. Pharm, Ph.D** at **DR. K. V. SUBBA REDDY INSTITUTE OF PHARMACY, Dupadu, Kurnool**, during the period 2019-2020. It is further certified that this work or any part of this has not been submitted in part or full for the award of any degree or fellowship.

DATE:

PLACE : Dupadu

Principal
Dr. G. NAGARAJAN,
M.Pharm , Ph.D.
Principal & HOD,

Department of Pharmaceutical Chemistry,
Dr. K. V. Subba Reddy Institute of Pharmacy,
Dupadu, Kurnool, A.P – 518002.

PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

Dr. K.V. SUBBAREDDY INSTITUTE OF PHARMACY

Approved by AICTE & PCI New Delhi, Affiliated to JNTU Anantapur, Anantapuramu, MoU with
Government General Hospital, KMC, Kurnool)

OPP: Dupadu RS, N.H-44, Lakshmi puram (Post), Kurnool-518218

E-mail: principalkvsrip@gmail.com

Cell. +919440282181, +919704333789

: +919440282181, +919704333789

Fax: 08518-287618

Fax:



CERTIFICATE BY SUPERVISOR

This is to certify that the dissertation entitled "DESIGN AND SYNTHESIS OF FLUORESCENT PROBES FOR HYDRAZINE SENSING" was done for the partial fulfillment for the award of degree of bachelor of pharmacy in Pharmaceutical Chemistry has been carried out by **S. AMREEN(16ER1R0001), R. HEMALATHA(16ER1R0011), M. PAVANKUMAR(16ER1R023), P. SUMA (16ER1R0043), M. SNEHA(16ER1R0077)**, under the guidance and supervision of **Dr. K. CHANDRASEKHAR, M.S. Pharm, Ph.D.** at **DR. K.V. SUBBAREDDY INSTITUTE OF PHARMACY, Dupadu, Kurnool**, during the period 2019-2020. It is further certified that this work or any part of this has not been submitted in part or full for the award of any degree or fellowship.

DATE:

PLACE: Dupadu.


Supervisor

DR. K. CHANDRASEKHAR,

M.S. Pharm, Ph.D

Associate Professor,

Department of Pharmaceutical Chemistry,

Dr. K. V. Subba Reddy Institute of Pharmacy,

Dupadu, Kurnool, A.P – 518002.



PRINCIPAL

Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P)

Dr. K.V. SUBBAREDDY INSTITUTE OF PHARMACY

Approved by AICTE & PCI New Delhi, Affiliated to JNTU Anantapur, Anantapuramu, MoU
with Government General Hospital, KMC, Kurnool)

OPP: Dupadu RS, N.H-44, Lakshmipuram (Post), Kurnool-518218

E-mail: principalkvsrip@gmail.com

Cell: +919440282181, +919704333789
+919440282181, +919704333789

Fax: 08518-287618
Fax:

DECLARATION BY CANDIDATES

We S.AMREEN (16ER1R0001), R.HEMALATHA (16ER1R0011), M.PAVANKUMAR (16ER1R0023), P.SUMA (16ER1R0043), M.SNEHA (16ER1R0077), pursued admission in B. Pharm 4th year program for the academic year 2019-2020, at Dr. K. V. Subba Reddy Institute of Pharmacy, Dupadu, Kurnool (Affiliated to JNT University Anantapur, Anantapuramu) and in connection with partial fulfilment for award of degree of Bachelor of Pharmacy. We hereby declare that the entitled research work "DESIGN AND SYNTHESIS OF FLUORESCENT PROBES FOR HYDRAZINE SENSING" was carried out by us under the guidance of Dr. K. CHANDRASEKHAR, M.S. Pharm, Ph.D, Associate Professor, Department of Pharmaceutical Chemistry. We express no conflict of interest for due submission of this work to board of examiners for evaluation process.

Name of the Student

Signature of the student

S.AMREEN

(16ER1R0001)

S. Amreen.

R.HEMALATHA

(16ER1R0011)

R. Hemalatha.

M.PAVAN KUMAR

(16ER1R0023)

M. Pavan Kumar

P.SUMA

(16ER1R0043)

P. Suma.

M.SNEHA

(16ER1R0077)

M. Sneha.

B. Hemana

PRINCIPAL

Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

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S. Venkatesh

PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P)

List of Abbreviations

S.NO	SYMBOL	ABBREVIATION
1.	DMSO	Dimethylsulphoxide
2.	TLC	Thin layer chromatography
3.	mm Hg	Millimeters of mercury
4.	μg	Microgram
5.	mg	Milligram
6.	%	Percentage
7.	ml	Milliliter
8.	Eq	Equivalents
9.	$^{\circ}\text{C}$	Centigrade
10.	$^{\circ}\text{F}$	Fahrenheit
11.	hr	Hour
12.	UV	Ultraviolet
13.	IR	Infrared radiation
14.	NMR	Nuclear Magnetic Resonance
15.	μL	Microliter
16.	nm	Nanometer
17.	μM	Micromolar
18.	M	Molar
19.	Mm	Mili molar
20.	Rt	Room temperature
21.	gm	Gram
22.	TEA	Triethylamine

S. Hemame
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P)

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Sukemane
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P)

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S. Suman

PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

ABSTRACT

ABSTRACT

Hydrazine is a highly reactive base and it is widely used in pharmaceutical and chemical industries. Hydrazine is highly toxic and pollutant compound which cause environmental contamination. Hydrazine highly toxic to vital organs like Kidney, Liver and CNS and causes hepatotoxicity, neurotoxicity and Mutagenicity. Hydrazine causes lipid peroxidation in the biological membrane, and increase oxidative stress through reactive oxygen species (ROS) formation. Good fluorophore is important for detection of hydrazine in solution and vapor phase is needed. Here we designed, synthesized and discussed about fluorescent probes used for hydrazine sensing in solution phase.

Key words: Hydrazine, Fluorophore, Hepatotoxicity.

S. Hemana

PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

AIM

&

OBJECTIVES

AIM

- ❖ To design and synthesis of compound that can detect hydrazine in solution phase

OBJECTIVES

- ✓ Design of fluorescent probes.
- ✓ Perform synthesis of fluorescent probes.
- ✓ Characterization of fluorescent probes by using Mass, and NMR spectroscopic studies.
- ✓ Perform an experiment to detect hydrazine by using a fluorescent probe.

Sitemane
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P)

INTRODUCTION

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HYDRAZINE :

Hydrazine was first prepared from hydrated hydrazine ($N_2H_4 \cdot H_2O$) by Theodor Curtius in 1887. In 1895 the Lobry de Bruyn was prepared anhydrous hydrazine as a free base for the first time. The Raschig was preparing Hydrazine by the oxidation of NH_3 with hypochlorite process, it becomes a chief commercial method of manufacture of hydrazine. Hydrazine is also be written in from of H_2NNH_2 , it is called diamidogen it is basic (alkali) chemical properties ($K_b = 1.3 \times 10^{-6}$) like ammonia. It is colourless fuming liquid with a faint ammonia like odour. It's by products such as nitrogen & water, hydrazine often acts as a convenient reductants such as antioxidant, oxygen scavengers & corrosion inhibitor^[1]. Hydrazine released as a by-product in some nitrogen-fixing bacteria. It is important metal corrosion inhibitor to scavenge oxygen in water boilers for feed & heating systems^[2]. They used as an anti-corrosive agent in electrical power plants, as an antioxidant in the nuclear power plant. It is also used as an anti-corrosive agent in electrical power plants, as an antioxidant in the nuclear power plant. During the Second World War, time Germany discovered the interesting property of hydrazine as the use of rocket fuel. Now it becomes a one of the most powerful liquid fuels among current rocket propellants. However, the chemical uses of hydrazine now far surpass its use as a fuel. The field of hydrazine chemistry and its applications are over widening. It is a chemical with high toxicity, can be readily absorbed through skin or via breathing directly into the body. Formula (N_2H_4), Density ($1g/cm^3$), Molar (32.0452), Boiling point ($114^\circ C$), Melting point ($2^\circ C$).

Determine hydrazine in trace amount using different analytical techniques such as chromatography, chemiluminescence, spectrophotometry, electrochemistry, titrimetry & surface enhanced Raman- spectroscopy^[14] and some other methods are used for determining hydrazine. To recognizing fluorescence sensors moiety for N_2H_4 have been developed mainly including acetyl, 4-bromobutyrate, levulinode (levulinate), phthalimide aldehyde, malononitrile, 1,8 naphthaleneimide, coumarin, cyanine derivative, aldehyde, & traditional organic dyes such as benzothiazole mostly through the reaction based approach that exploits the strong nucleophilicity of hydrazine^[3].

Hydrazine causes lipid peroxidation & ROS formation, to elevate oxidative stress & leads eventually to nonspecific damage to protein & DNA^[4]. Hydrazine has been denoted as a

possible human carcinogen by the US Environment Protection Value [EPA] with an exposure threshold limit value [TLV] of 10 ppb. ^[5] while exposure to hydrazine may causes eyes,nose irritation,dizziness, headache, nausea,pulmonary edema, seizures, coma in humans as well as damage to the liver, kidney & central nervous system[CNS] ^[6] .

Uses of Hydrazine

1. Gas producers and propellants.
2. Precursor to pesticides and pharmaceuticals.
3. Rocket fuel.

1. Gas producers and propellants

The majority use of hydrazine is as a precursor to blowing agents. Specific compounds include azo dicarbonamide and azo bisisobutyronitrile, which produce 100–200 ml of gas per gram of precursor. In a related application, sodium azide, the gas-forming agent in air bags, is produced from hydrazine by reaction with sodium nitrite ^[7] .

Hydrazine is also used as a propellant on board space vehicles, such as the NASA Dawn probe to Ceres and Vesta, and to both reduce the concentration of dissolved oxygen in and control pH of water used in large industrial boilers. The F-16 fighter jet, NASA Space Shuttle, and U-2 spy plane use hydrazine to fuel their emergency power units^[8] .

2. Precursor to pesticides and pharmaceuticals

Hydrazine can be effective as an active ingredient an admixture with/in combination with other agricultural chemicals such as insecticides, miticides , nematicides, fungicides, herbicides/ plant growth regulators^[9]. It is widely applies as a pharmaceutical derivatives such as isoniazid, phenyl amino thiourea and the antipsychotic drug 1-isoniacyl-2-isopropylhydrazine, the anti-infective drug 5-nitrofuranylhydrazine derivative^[10], antitumor drug methyl phenylhydrazine ^[11] .

3. Rocket fuel:

Hydrazine was first used as a component in rocket fuels during World War II. A 30% mix by weight with 57% methanol (named M-Stoff in the German Luftwaffe) and 13% water was called C-Stoff by the Germans.^[12] The mixture was used to power the Messerschmitt

Me 163B rocket-powered fighter plane. Hydrazine was also used as a propellant with the German high test peroxide *T*-Stoff oxidizer. Unmixed hydrazine was referred to as B-Stoff by the Germans, a designation also used later for the ethanol/water fuel for the V-2 missile.

Hydrazine is used as a low-power monopropellant for the maneuvering thrusters of spacecraft, and was used to power the Space Shuttle's auxiliary power units (APUs). In addition, monopropellant hydrazine-fueled rocket engines are often used in terminal descent of spacecraft. Such engines were used on the Viking program landers in the 1970s as well as the Phoenix lander and Curiosity rover which landed on Mars in May 2008 and August 2012, respectively.

In all hydrazine monopropellant engines, the hydrazine is passed over a catalyst such as iridium metal supported by high-surface-area alumina (aluminium oxide), which causes it to decompose into ammonia, nitrogen gas, and hydrogen gas ^[13].

There are ongoing efforts in the aerospace industry to replace hydrazine. It includes hydroxylammoniumnitrate, dimethylaminoethylazide (DMAZ)^[14] and energetic ionic liquids.

Hydrazine Effects

- Hydrazine exposure can cause **skin irritation**/contact dermatitis and burning, irritation to the **eyes/nose/throat**, **nausea/vomiting**, shortness of breath, pulmonary edema, **headache, dizziness**, central nervous system depression, lethargy, temporary blindness, seizures and coma. Exposure can also cause organ damage to the **liver, kidneys** and central nervous system ^[15].
- While exposure to the hydrazine related emergency, NIOSH recommends removing contaminated clothing immediately, washing skin with soap or water, and for eye exposure removing contact lenses and flushing eyes with water for at least 15 minutes. NIOSH also recommends anyone with potential hydrazine exposure to seek medical attention as soon as possible ^[16].
- Hydrazine causes lipid peroxidation ^[17] in the biological membranes, and increase oxidative stress through reactive oxygen species (ROS) formation. ^[18].

- International Agency for Research on Cancer (IARC) rates hydrazine as "**2A-probably carcinogenic to humans**" with a positive association observed by hydrazine exposure and it causes **lung cancer**^[19]
- National Academies of Sciences, Engineering and Medicine concluded that there is suggestive evidence of an association between hydrazine exposure and lung cancer, based on cohort and cross-sectional studies of occupational hydrazine exposure, a committee from with insufficient evidence of association with cancer at other sites^[20]. The European Commission's Scientific Committee on Occupational Exposure Limits (SCOEL) places hydrazine in carcinogen "**group B-a genotoxic carcinogen**". The genotoxic mechanism the committee cited references hydrazine's reaction with endogenous formaldehyde and formation of a **DNA-methylating agent**^[21].
- The World Health Organization (WHO) recommends potential exposures be treated symptomatically with special attention given to potential **lung and liver damage**. Past cases of hydrazine exposure have documented success with **Pyridoxine** (Vitamin B6) treatment^[22].

Different fluorescent probes for hydrazine detection provide good choice due to their high sensitivity, compatibility with biological samples, simplicity for implementation and less time consumption. So, essentially a choice of a good fluorophore is crucial for rapid detection of hydrazine in the solution phase, vapor phase as well as in live cell would be beneficial.

REVIEW OF LITERATURE

REVIEW OF LITERATURE

Recently literature showed that different hydrazine probes were reported in the literature with different recognition moieties and the different sensing mechanism. The moieties like acetyl, vinyl malononitrile, phthalimide, levulinate, 4-nitrobenzene sulphonyl, and other moieties act as hydrazine recognition moieties.

Choi et al ^[23], reported a hydrazine probe has based on acetyl moiety **(I)**. Resorufin acetate **(I)** hydrazinolized with hydrazine cause removal of an acetyl group from resorufin results in chromogenic and fluorescence turn-on of the probe **(I)**.

Goswami et al ^[24], used 4-bromo butyrate as recognition moiety for the synthesis of hydrazine probe **(II)** ^[24]. The probe **(II)** was designed based on ESIPT (Exited State Internal Proton Transfer) mechanism, 4-bromo butyryl moiety blocks the ESIPT of the probe **(II)**. When hydrazine reacts with the probe **(II)** it will cause remove 4-bromo butyryl moiety and results in ESIPT process turn-on.

Choi et al ^[25] synthesized hydrazine probe using levulinoyl moiety as a recognition site for hydrazine **(III)**. The probe **(III)** was prepared by reaction of levulinoyl chloride with 3-cyano-7-hydroxycoumarin. The probe fluorescence moiety was blocked with this levulinoyl moiety but when hydrazine reacts with probe results in the removal of levulinoyl moiety from the probe **(III)** and fluorescence turn-on of the probe **(III)**.

Ali et al ^[26], reported fluorescent hydrazine probe **(IV)** based on phenanthroimidazole as fluorophores and phthalimide as hydrazine sensing unit. The phthalimide part in probe **(IV)** acts as protecting group for amine moiety and also blocks the fluorescence turn-on process of the probe **(IV)** but when hydrazine reacts with probe results in fluorescence turn-on of the probe **(IV)**,

Chenet al, synthesized hydrazine probe by using para nitro benzene sulphonyl moiety as a recognition unit **(V)**. In probe **(V)** the 4-nitrobenzene sulfonyl moiety acts as fluorescence quencher as an electrophile ^[27].

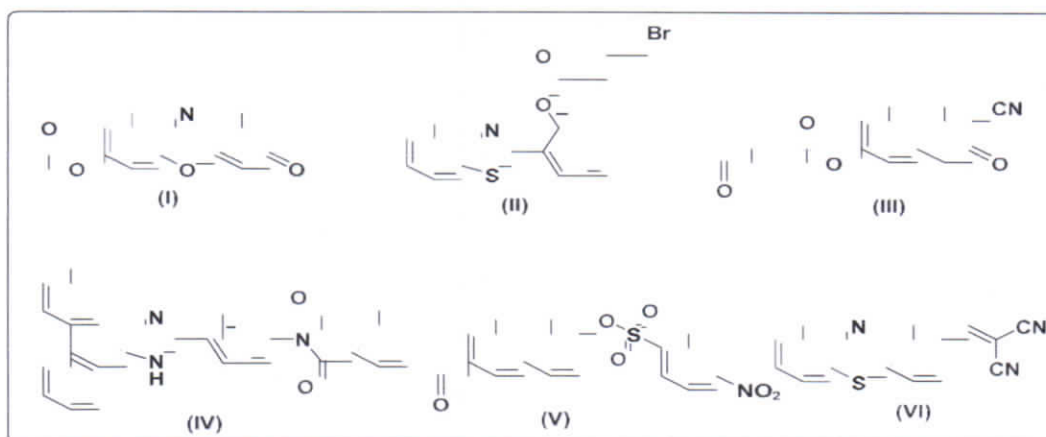


Figure 1: Previously reported hydrazine fluorescent probes

The nucleophilic aromatic substitution of hydrazine on the probe (V) cause release of 4-nitrobenzene sulfonyl moiety and results in fluorescence turn-on of the probe (V).

Sun *et al* reported a fluorescent probe based on malononitrile as recognition moiety¹⁷⁵ (VI). The probe (VI) was designed based on Internal Charge Transfer (ICT) phenomenon when hydrazine reacts with the probe (VI) leads to the formation of the hydrazone product and results in the ICT process turned-off

Nguyen *et al*,^[29] reported fluorescent hydrazine probe (VII) based on dichloro fluorescein as fluorophores and acetyl chloride moiety as hydrazine sensing unit. The acetyl part in probe acts as protecting group and also blocks the fluorescence turn-on process of the probe (VII) but when hydrazine reacts with probe results in fluorescence turn-on of the probe (VII)

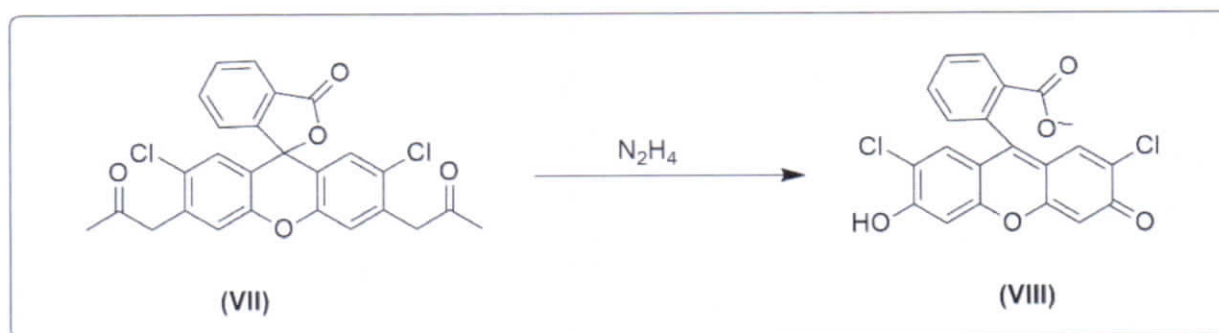


Figure 2: Hydrazine sensing mechanism of probe (VII)

DESIGN STRATEGY

Design Strategy:

The fluorescence property of a particular luminophore is being masked by using a proper masking agent (turn-off state). When an analyte which is highly sensitive towards that particular masking agent comes into contact, demasking results followed by the fluorescence turn-on.

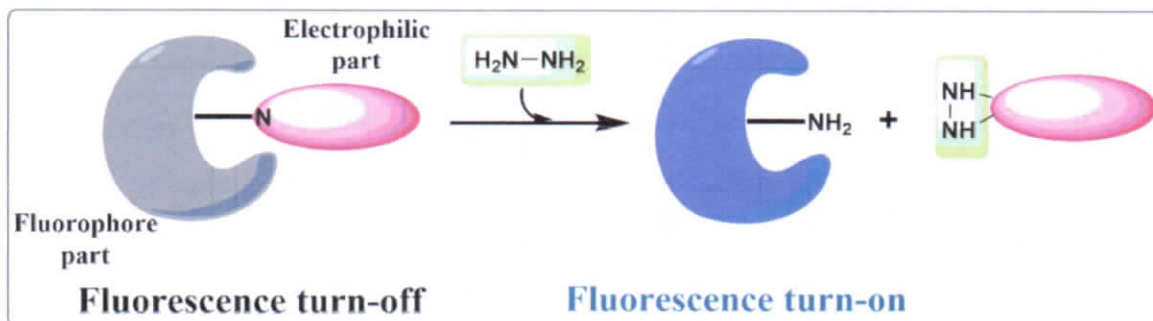


Figure 3: Designed strategy of probe

In the present study, a Naphthalene and Anthracene moiety was used as a fluorophore in the sensor because it has large stoke shift value (Stokes shift is difference between the emission and excitation maxima) and phthalimide and acetamide used as a hydrazine sensing unit, it can also act as a masking agent to mask the fluorescent nature of fluorophore i.e. Naphthalene and anthracene. For sensing hydrazine electrophilic center present in the ligand, and phthalimide and acetamide served this purpose. Thus, Compounds were designed as a hybrid of phthalimide and acetamide with Naphthalene and anthracene. The designed probes were successfully synthesized in a single step with the aim to sense the hydrazine with high specificity. Therefore when hydrazine attack on the probe leads to the generation of fluorophore which is responsible for fluorescence turn-on.

EXPERIMENTAL

SECTION

EXPERIMENTAL SECTION

Chemicals Used:

Table 1: Chemicals used in the project

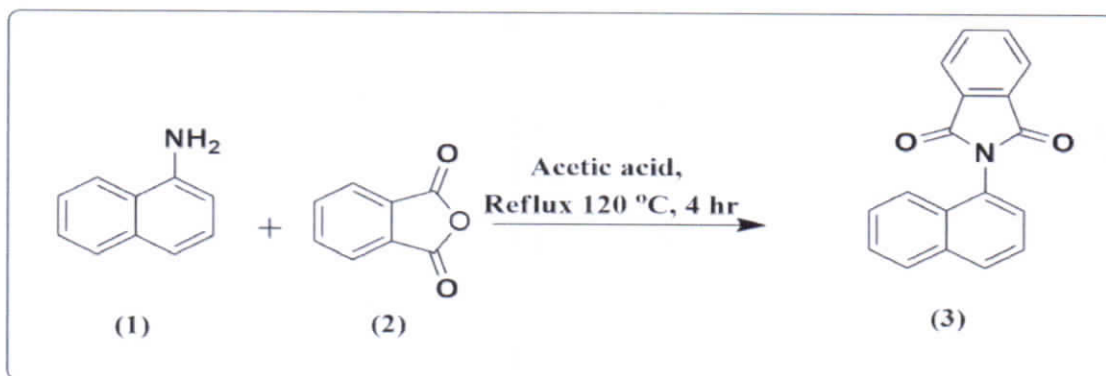
S.no	Materials	Grade	Molecular Formula	Molecular Weight	Manufacturer
1.	Alpha-naphthylamine	AR	C ₁₀ H ₉ N	143.19	AVRA
2.	2-aminoanthracene	AR	C ₁₄ H ₁₁ N	193.24	Alfa Aesar
3.	Phthalic anhydride	LR	C ₈ H ₄ O ₃	148.12	SDFCL
4.	Triethylamine	LR	C ₆ H ₁₅ N	101.19	SDFCL
5.	Chloroform	AR	CHCl ₃	119.38	SIMSON
6.	Acetyl chloride	LR	CH ₃ COCl	78.50	SDFCL
7.	Sodium sulphate anhydrous	LR	Na ₂ SO ₄	142.04	FINAR
8.	Acetic Acid Glacial	LR	C ₂ H ₄ O ₂	60.05	SIMSON
9.	Ether Petroleum	AR	C ₆ H ₁₄	82.2	PALLAV
10	Ethyl acetate Extra pure	LR	C ₄ H ₈ O ₂	88.11	PALLAV
11	Citric Acid	LR	C ₆ H ₈ O ₇	210.14	NR CHEM
12	Dimethyl sulphoxide	LR	C ₂ H ₆ OS	78.13	SDFCL

Materials Used:

The materials used for synthesis purpose are Heating Mantle of Bio Technics India (size :500;model: B72-19), Magnetic Stirrer of 2MLH Magnetic Stirrer, UV light Cabinet is used for detect completion of reaction process and also used for naked eye detection of hydrazine by probe in solution phase, Thermostatic Water bath is used for drying purpose, TLC aluminium sheets (3 x 2.5) are used for checking progress of the reaction, UV Chamber, and Round bottom flask of 50 ml , and some of the glassware's are used .

PROCEDURE FOR SYNTHESIS PROBE 3: (2-(naphthalen-1-yl)isoindoline-1,3-dione)

Reaction 1:



Procedure:

To 500 mg of 1-amino naphthalene in 50 ml round bottom flask add 15 ml of acetic acid and allow all compound to dissolve after that add 620 mg phthalic anhydride and reflux the reaction at 120 °C for 4 hr until completion of reaction. The reaction completion checked by using TLC plate, once reaction was completed stop the reaction allow the reaction mixture to cool at room temperature, next filter that product using whatmann filter paper, wash the product using cold water and allow the product to dry. After drying the compound **3** was appeared in white colour, the percentage yield of the reaction was found to be 75%

Weigh 500 mg of 1-naphthylamine + acetic acid (15ml) in RBF

Stirred it well ↓ porcelain pieces

Add 620 mg of phthalic anhydride powder

↓ Mix it well

Reaction mixture is refluxed at 120 °C for 4 hr

Filter it with a whatmanns filter paper
 ↓
 Collect the dried sample and transferred into the sample vial (Probe-3)

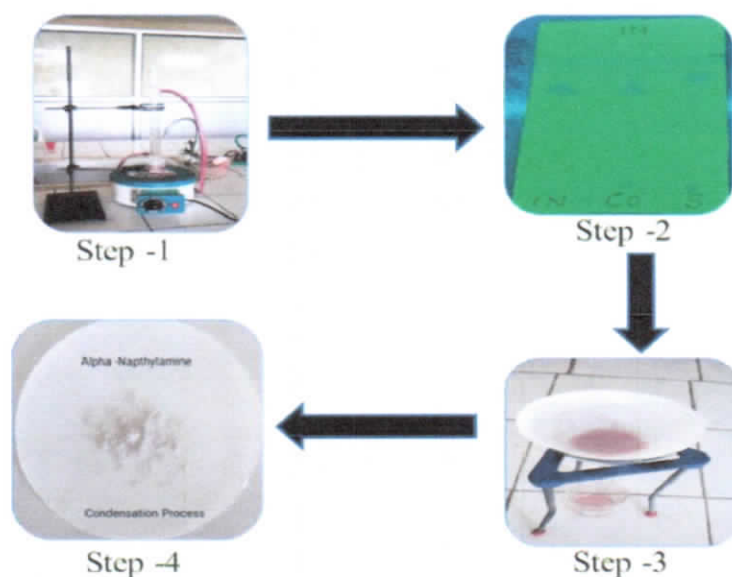


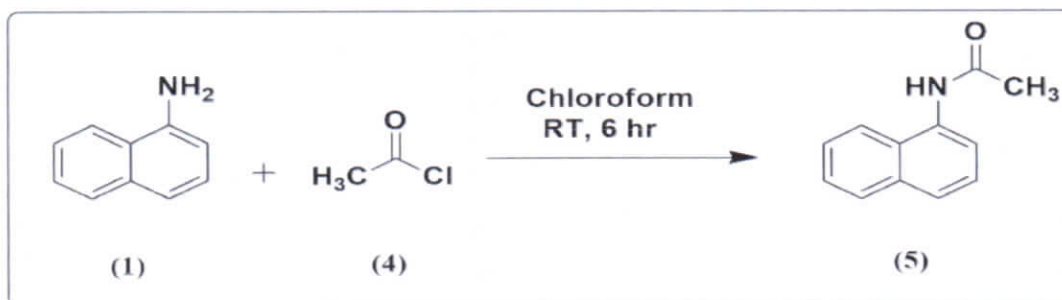
Figure 4: Diagrammatic representation of steps involved in synthesis of

probe 3

¹H NMR [600 MHz, CDCl₃]: δ (ppm): 8.03 (m, 2H), 8.0 (d, 1H, *J*=8.4 Hz), 7.95 (d, 1H, *J*=7.8 Hz), 7.85 (m, 2H), 7.61 (m, 2H), 7.54 (m, 2H), 7.48 (m, 1H); **¹³C NMR (150 MHz, CDCl₃) δ (ppm):** 167.84, 134.53, 134.48, 132.04, 130.30, 130.0, 128.63, 128.19, 127.17, 127.02, 126.59, 124.45, 123.99, 122.46; HRMS: [ESI- *m/z*] calcd for [C₁₈H₁₁NO₂]: 273.08, observed (M+H⁺): 274.0859.

PROCEDURE FOR SYNTHESIS PROBE 5: N-(naphthalen-1-

yl)acetamide Reaction-2:

**Procedure:**

To the 500 mg of 1-Naphthylamine in a round bottom flask and add 12 ml of chloroform of next add Triethylamine of 1.47 ml and mix it, and then add Acetyl chloride of 0.29 ml the reaction mixture was stirred on a magnetic stirrer at room temperature for 6 hours. Check the completion of reaction by using TLC plate. Next the reaction mixture was taken in to a separation funnel and do workup with Chloroform and water, chloroform layer is collected into a beaker and kept for drying on a water bath after drying the sample collected and weighed. Compound **5** appear as in light brown colour, and the percentage yield of the reaction was found to be 70%.

Weigh 500mg of Naphthylamine + 15ml of Chloroform + 1.47 ml of Triethylamine + 0.29 ml of Acetyl chloride

Mix it well

Kept it on a magnetic stirrer at room temperature

For 6 hours

Check the completion of reaction using TLC plate

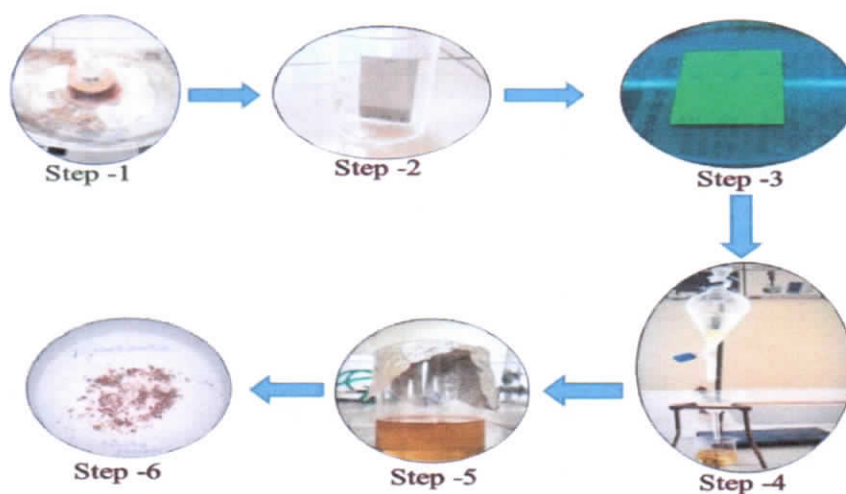
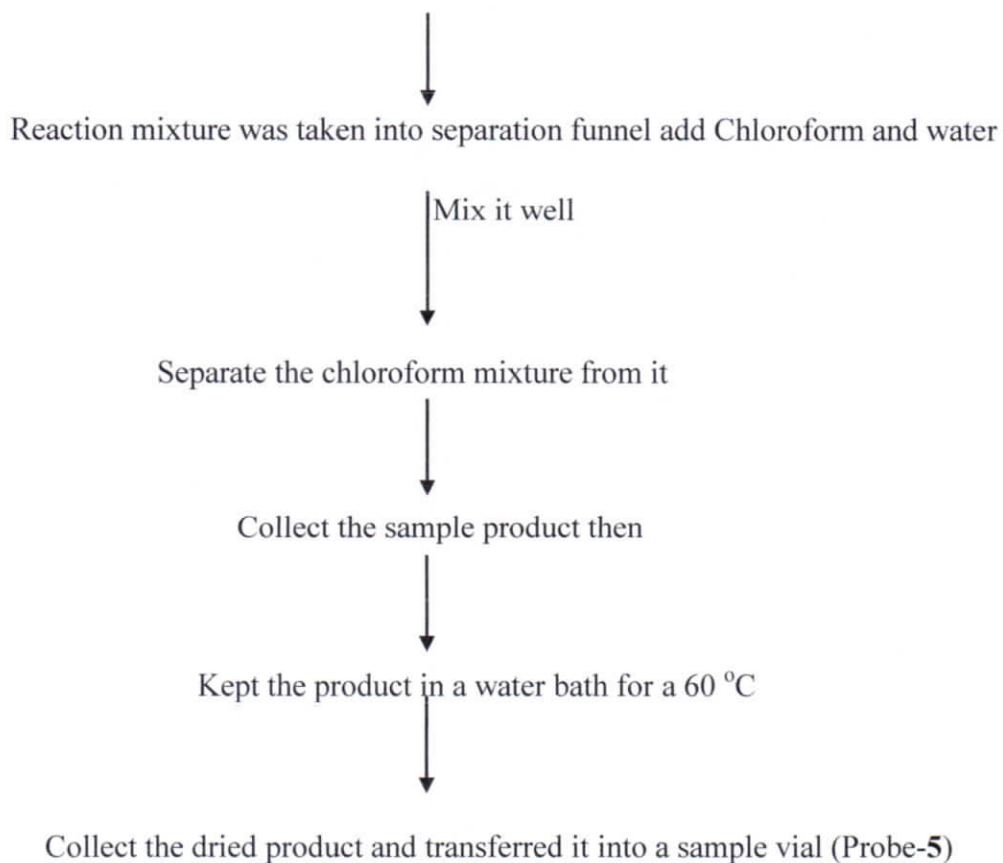
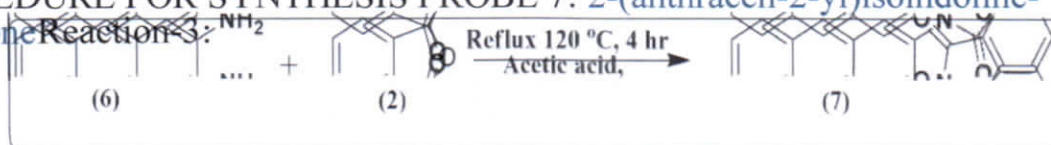


Figure 5: Diagrammatic representation of steps involved in synthesis of probe 5
 Characterisation Data of probe-5:

$^1\text{H NMR}$ [600 MHz, DMSO-d_6]: δ (ppm): 9.91 (s, 1H), 8.07 (d, 1H, $J=7.2$ Hz), 7.92 (d, 1H, $J=8.4$ Hz), 7.73 (d, 1H, $J=8.4$ Hz), 7.68 (d, 1H, $J=7.2$ Hz), 7.53 (m, 2H), 7.47 (t, 1H, $J=7.8$ Hz), 2.18 (s, 3H); $^{13}\text{C NMR}$ (150 MHz, DMSO-d_6) δ (ppm): 169.34, 134.11, 128.52, 128.07, 126.38, 126.15, 125.98, 125.45, 123.16, 121.94, 23.91; HRMS: [ESI- m/z] calcd for $[\text{C}_{12}\text{H}_{11}\text{NO}]$: 185.08, observed ($\text{M}+\text{H}^+$): 186.0916.

PROCEDURE FOR SYNTHESIS PROBE 7: 2-(anthracen-2-yl)isoindoline-1,3-dione



Procedure:

To 500 mg 2-Aminoanthracene (1 eq) in 50 ml round bottom flask add 10 ml of acetic acid and allow all compound to dissolve after that add 460 mg phthalic anhydride (1.2 eq) and reflux these reaction at 120 °C for 4 hr until completion of reaction. The reaction completion checked by using TLC plate, once reaction was completed stop the reaction allow the reaction mixture to cool at room temperature, next filter that product using whatmann filter paper, wash the product using cold water and allow the product to dry. After drying the compound 7 was appeared in light brown colour, the percentage yield of the reaction was found to be 75 %

Weigh 500 mg of 2-Aminoanthracenein + acetic acid (10 ml) in RBF

Add 92 mg of phthalic anhydride powder



Mix it well

Kept the reaction refluxed at 120⁰C for 4 hr



(After completion of reaction)

Filter the reaction mixture it in a whatmans filter paper



Collect the dried sample and transferred into the sample vial (Probe-7)

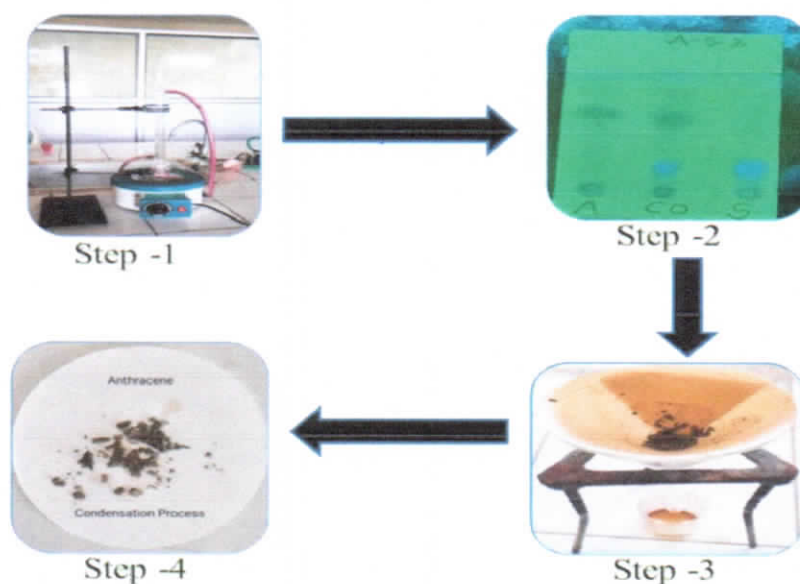


Figure 6: Diagrammatic representation of steps involved in synthesis of probe

7

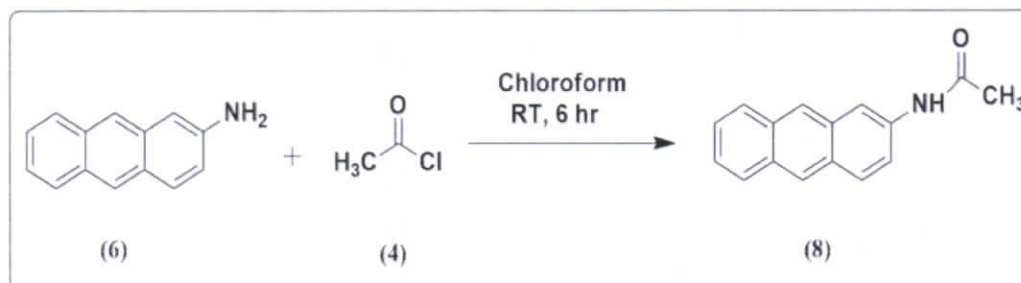
Characterisation Data of probe-7:

¹H NMR [600 MHz, CDCl₃]: δ (ppm): 8.55 (s, 1H), 8.16 (m, 2H), 8.07 (m, 2H), 8.02 (d, 1H),

167.94, 134.58, 132.33, 132.15, 131.99, 130.48, 128.47, 128.35, 128.06, 127.43, 126.86, 126.05, 126.0, 124.45, 124.09, 121.22; HRMS: [ESI- m/z] calcd for [C₂₂H₁₃NO₂] : 323.09, observed (M+H⁺): 324.1010

PROCEDURE FOR SYNTHESIS PROBE 8: N-(anthracen-2-

yl)acetamide Reaction-4:



Procedure:

To the 500 mg of) 2-Amino anthracene (1 eq) in a round bottom flask and add 10 ml of chloroform of next add Triethylamine of 1.09 ml (3 eq) and mix it, and then add Acetyl chloride of 0.22 ml (1.2 eq) the reaction mixture was stirred on a magnetic stirrer at room temperature for 6 hours. Check the completion of reaction by using TLC plate. Next the reaction mixture was taken in to a separation funnel and do workup with Chloroform and water, chloroform layer is collected into a beaker and kept for drying on a water bath after drying the sample collected and weighed. Compound **8** appear as in Pale Brown colour, and the percentage yield of the reaction was found to be 73%.

Weigh 500 mg of 2-Amino anthracene + 10 ml of Chloroform + 1.09 ml of Triethylamine +

0.22 ml of Acetyl chloride

Mix it well

Kept it on a magnetic stirrer at room temperature

For 6 hours

Check the completion of reaction using TLC plate



Reaction mixture was taken into separation funnel add Chloroform and water



Mix it well

Separate the chloroform mixture from it



Collect the sample product then



Kept the product in a water bath for a 60⁰C



Collect the dried product and transferred it into a sample vial (Probe-8)

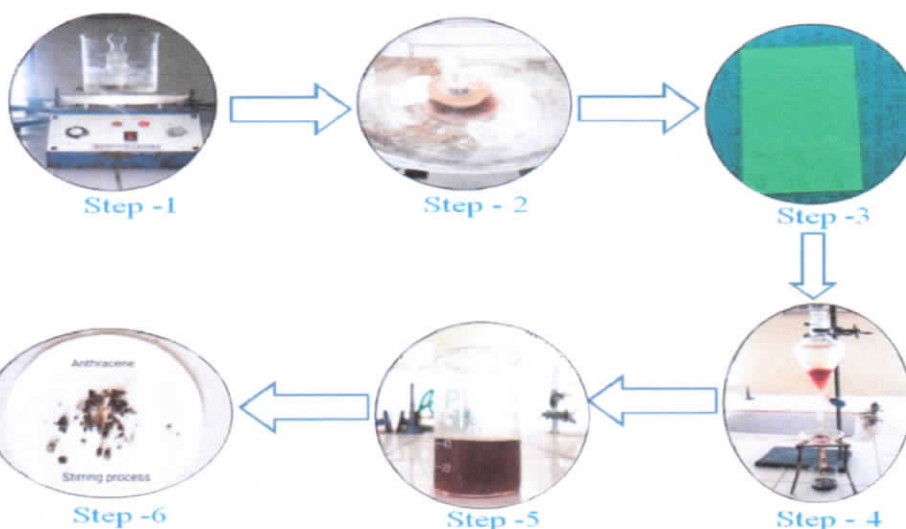


Figure 7: Diagrammatic representation of steps involved in synthesis of probe 8
Characterisation Data of probe-8:

$^1\text{H NMR}$ [600 MHz, DMSO-d_6]: δ (ppm): 10.21 (s, 1H), 8.49 (s, 1H), 8.46 (s, 1H), 8.42 (s, 1H), 8.01 (m, 3H), 7.54 (m, 1H), 7.45 (m, 2H), 2.12 (s, 3H); $^{13}\text{C NMR}$ (150 MHz, DMSO-d_6) δ (ppm): 169.18, 136.71, 132.11, 130.76, 129.18, 128.89, 128.48, 128.10, 126.21, 126.01, 125.34, 125.31, 121.38, 113.99, 24.58; HRMS: [ESI- m/z] calcd for $[\text{C}_{18}\text{H}_{11}\text{NO}_2]$: 273.08, observed ($\text{M}+\text{H}^+$): 274.0859.

Procedure for Naked eye detection of hydrazine by probe in solution phase:

First initially stock solution of probe was prepared. From the stock solution dilute solution of probe (1 mM) is prepared by diluting with chloroform. Similarly stock solution of hydrazine (5M) in water was prepared from that desired dilute solution (1M) is prepared. Equal volume of probes were poured in 2 vials initially it won't give any fluorescence in the vial after addition of 4 μl of hydrazine solution added to second vial after few seconds (< 10 sec) second vial show bright fluorescence when these vials kept under UV cabinet at 365 nm.

Procedure for UV titration studies of probe with hydrazine solution:

First initially stock solution (3 mM) of probe was prepared. From the stock solution dilute solution of probe (50 μM) is prepared by diluting with DMSO. 10 mM of Hydrazine was prepared in distilled water and it is used further for all spectroscopic studies. To the 50 μM solution of probe in the cuvette add increasing concentration of hydrazine and corresponding absorption spectrum readings were taken down.

RESULTS

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DISCUSSION

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RESULTS AND DISCUSSION

All the probes were synthesized using standard procedures and probes were obtained in good yields and structure of probe **3,5,7,8** was characterized by Mass and NMR spectroscopic techniques. .

Table 2: Representation of chemical name, actual mass of probes and mass obtained for probes after analysis.

Probes	Names	Chemical formula	Actual Molecular mass	Mass obtained
Probe-3	2-(naphthalene-1-yl)isoindoline-1,3-dione	C ₁₈ H ₁₁ NO ₂	273.08	274.0859
Probe-5	N-(naphthalene-1-yl)acetamide	C ₁₂ H ₁₁ NO	185.08	186.0916
Probe-7	2-(anthracen-2-yl)isoindoline-1,3-dione	C ₂₂ H ₁₃ NO ₂	323.09	324.1010
Probe-8	N-(anthracen-2-yl)acetamide	C ₁₆ H ₁₃ NO	235.10	236.1075

Hydrazine sensing:

Initially from stock solutions of probe, 1 mM desired concentrations of probe solution in chloroform were prepared. Next equal volume of 1mM probe solution (1ml) added into two vials. In the second vial add 5µl of 1M hydrazine solution was added and mixed, next expose the 2 vials (among them one contain only probe solution and second vial contain probe solution and hydrazine solution) to 365 nm long UV light in UV cabinet, immediately within 10 seconds



second vial in which both probe and hydrazine solution gave bright fluorescence along with some colour change of probe solution.

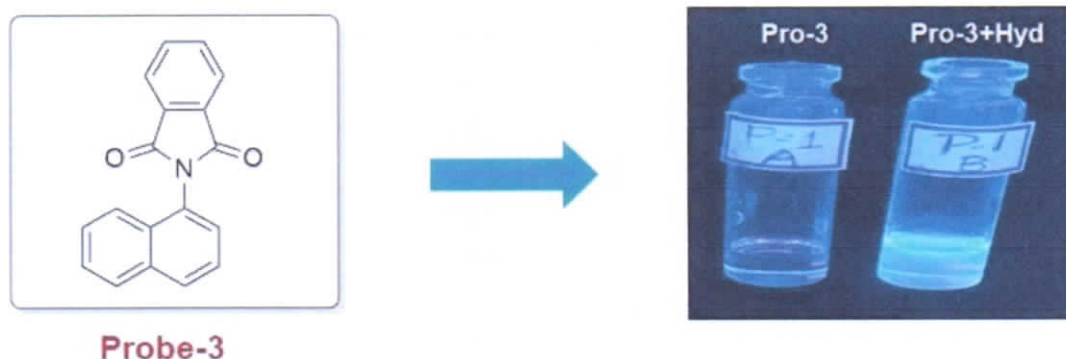


Figure 8: Snapshot of visually detectable fluorescence colour changes of Probe 3, (1 mM) in absence and presence of hydrazine

Initially probe 3 in chloroform solution does not showed any fluorescence when it exposed to 365 nm of UV light, after addition of hydrazine solution to probe solutions it showed light sky blue colour fluorescence. Similarly after addition of hydrazine to probe-5 solution it gave strong blue colour fluorescence.

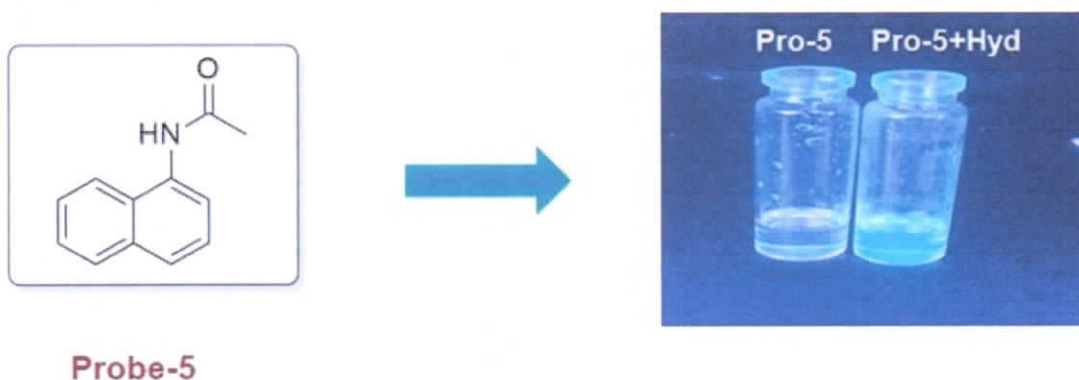


Figure 9: Snapshot of visually detectable fluorescence colour changes of Probe 5, (1 mM) in absence and presence of hydrazine.

Next we have taken one ml of 1 mM probe 7 solution in a two separate vials to it we have added 4 μ l of hydrazine solution and we have absorbed vials under UV cabinet with light at 365 nm wavelength, after 8 seconds we have observe visible light yellow colour fluorescence

light change with the naked eye. Similarly incase of probe-8 solution also after addition of hydrazine it showed strong orange colour fluorescence which is different from the earlier colour of probe-8 solution. With the above experimental results we can come to know all our synthesized probes detect the hydrazine by a fluorescence turn-on mechanism.

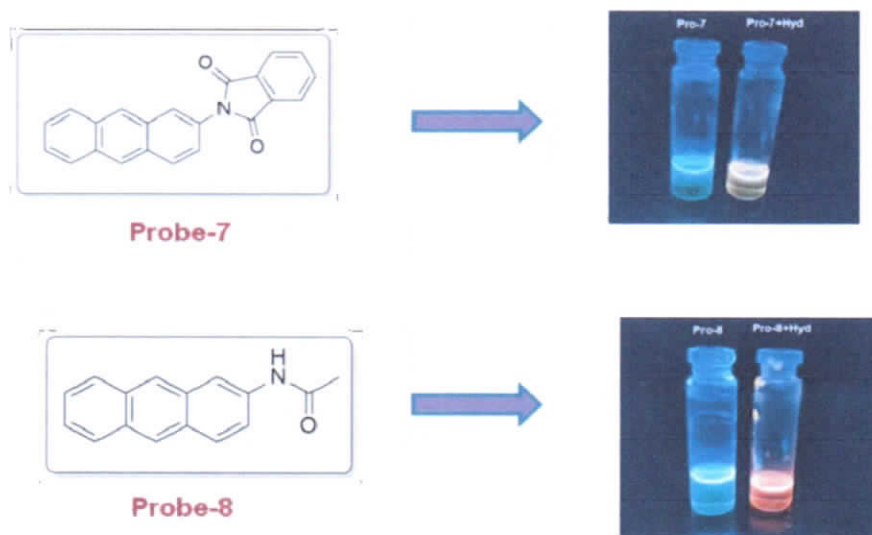


Figure 10: Snapshot of visually detectable fluorescence colour changes of Probe 7 and 8, (1 mM) in absence and presence of hydrazine

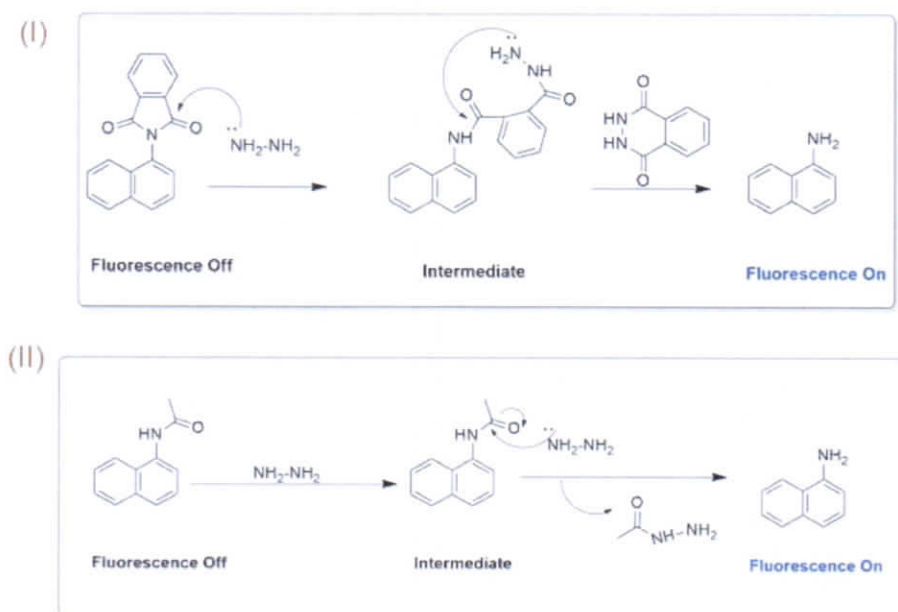


Figure 11: Plausible mechanism by which probes detect hydrazine and shows fluorescence turn-on phenomenon

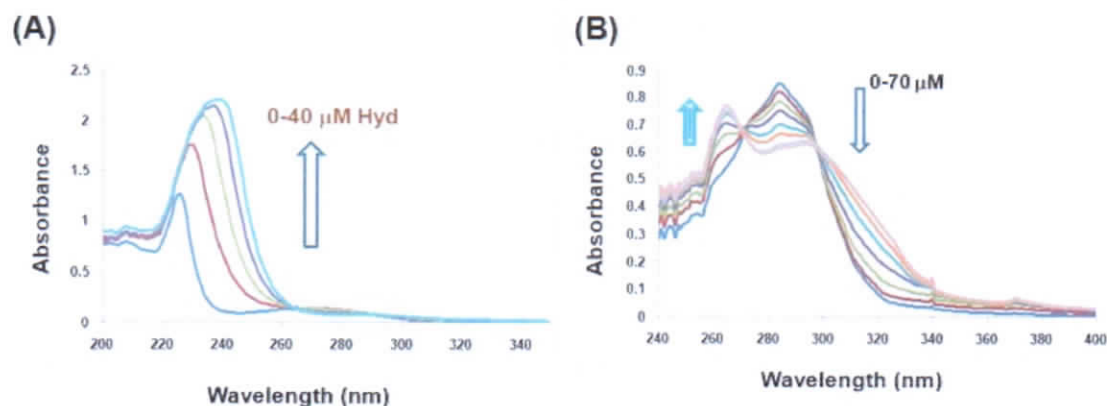
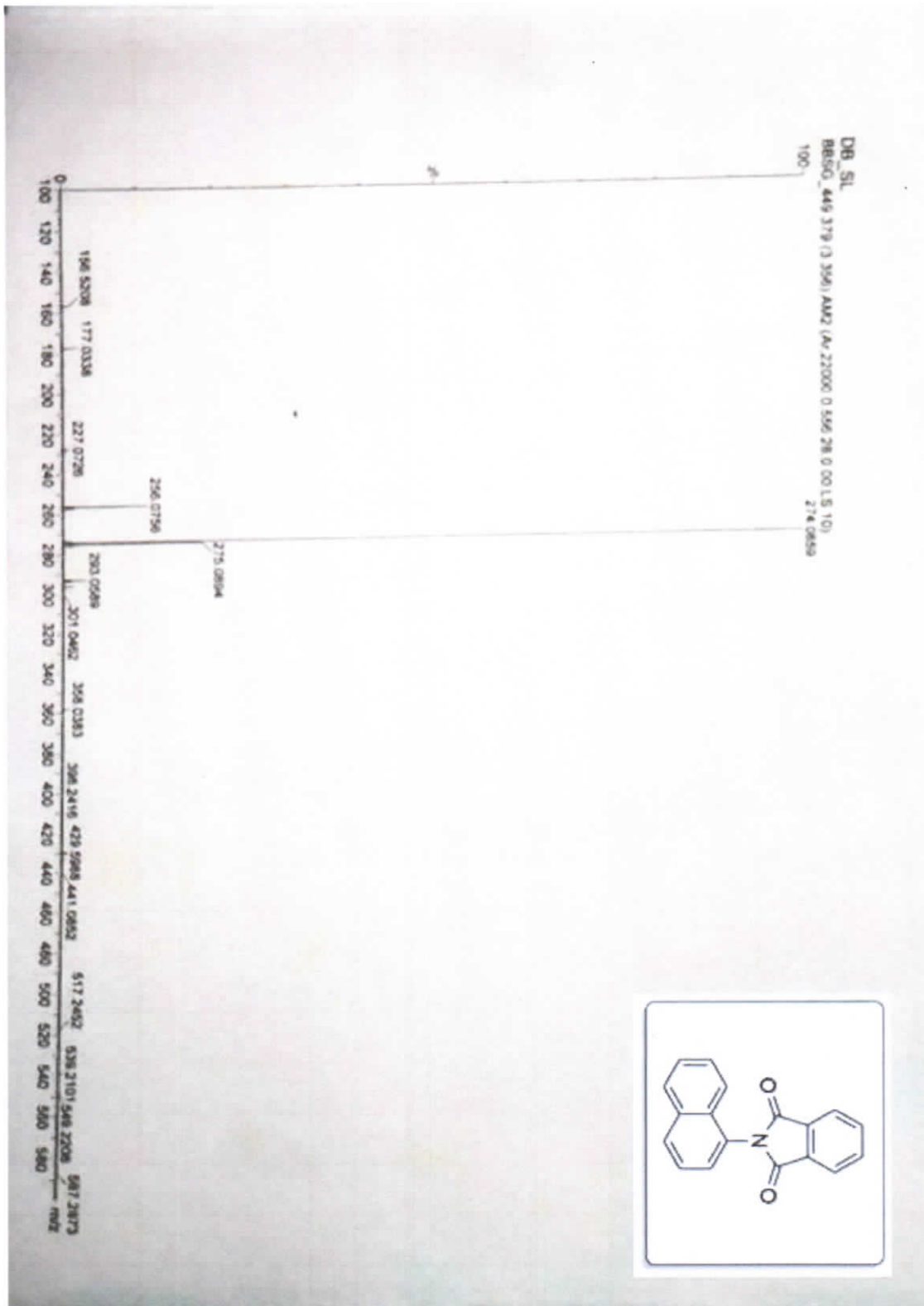


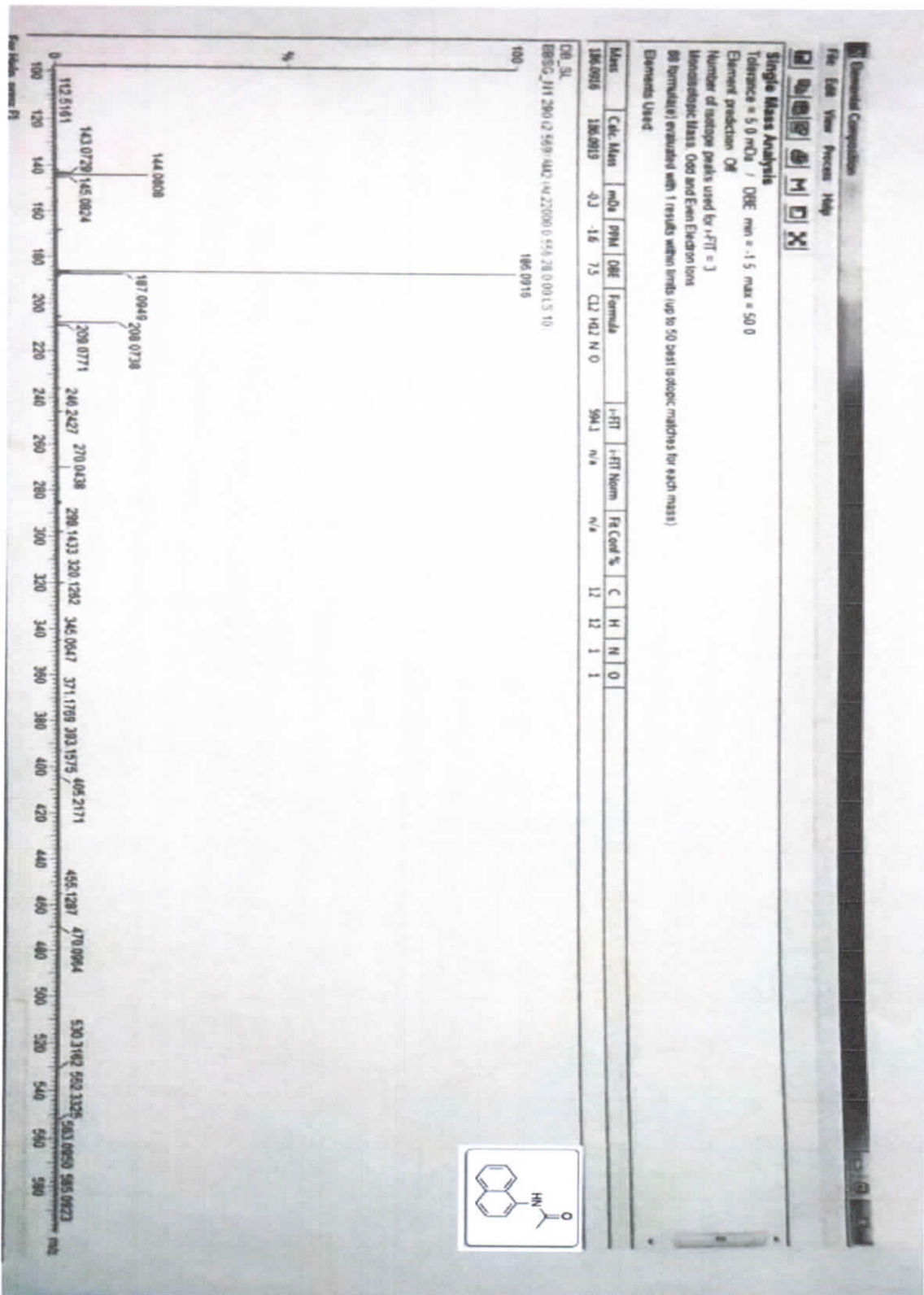
Figure 12: UV titration of (A) probe 3, (B) probe 7 (50 μM) dissolved in DMSO upon addition of varying concentration of Hydrazine

UV-Vis spectroscopy titration experiments were performed for probe 3 and probe 7 with hydrazine. The results showed that the probe-3 has absorption maxima at 226 nm, next upon gradual addition of hydrazine (0-40 μM) to the solution of probe 3, a steady increase in the absorbance intensity and there is slight shift in the absorption maxima value. Similarly we also performed titration experiments with probe 7. Initially the probe 7 in DMSO solution showed absorption maximum at 284 nm, up on gradual addition of hydrazine (0-70 μM) to probe 5, a steady decrease in the absorbance at 284 nm is observed at the same time a new peak is generated at 265 nm which may be due generation of fluorophore moiety which is responsible for fluorescence turn-on.

Mass Spectrum of Compound 3 :



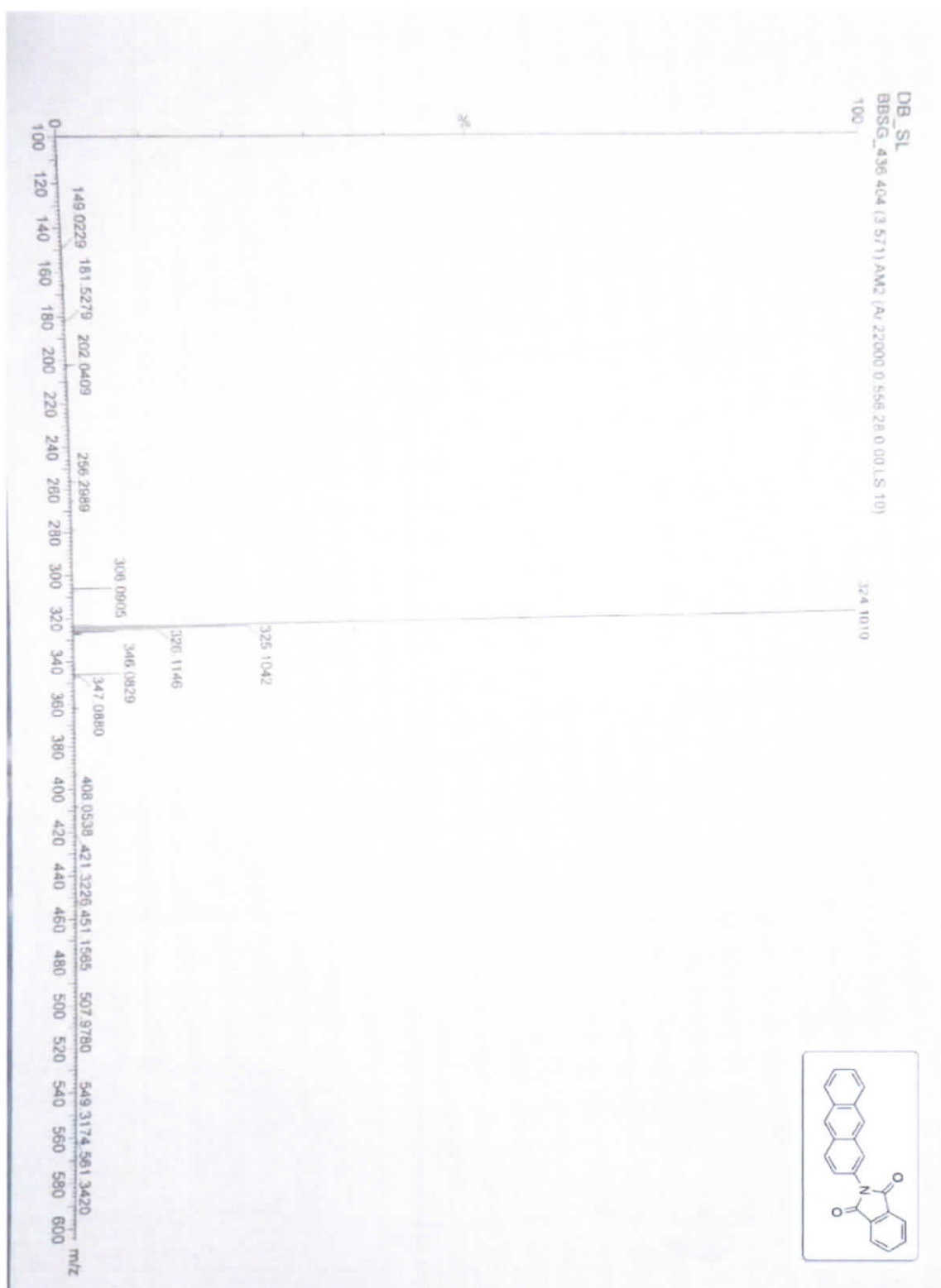
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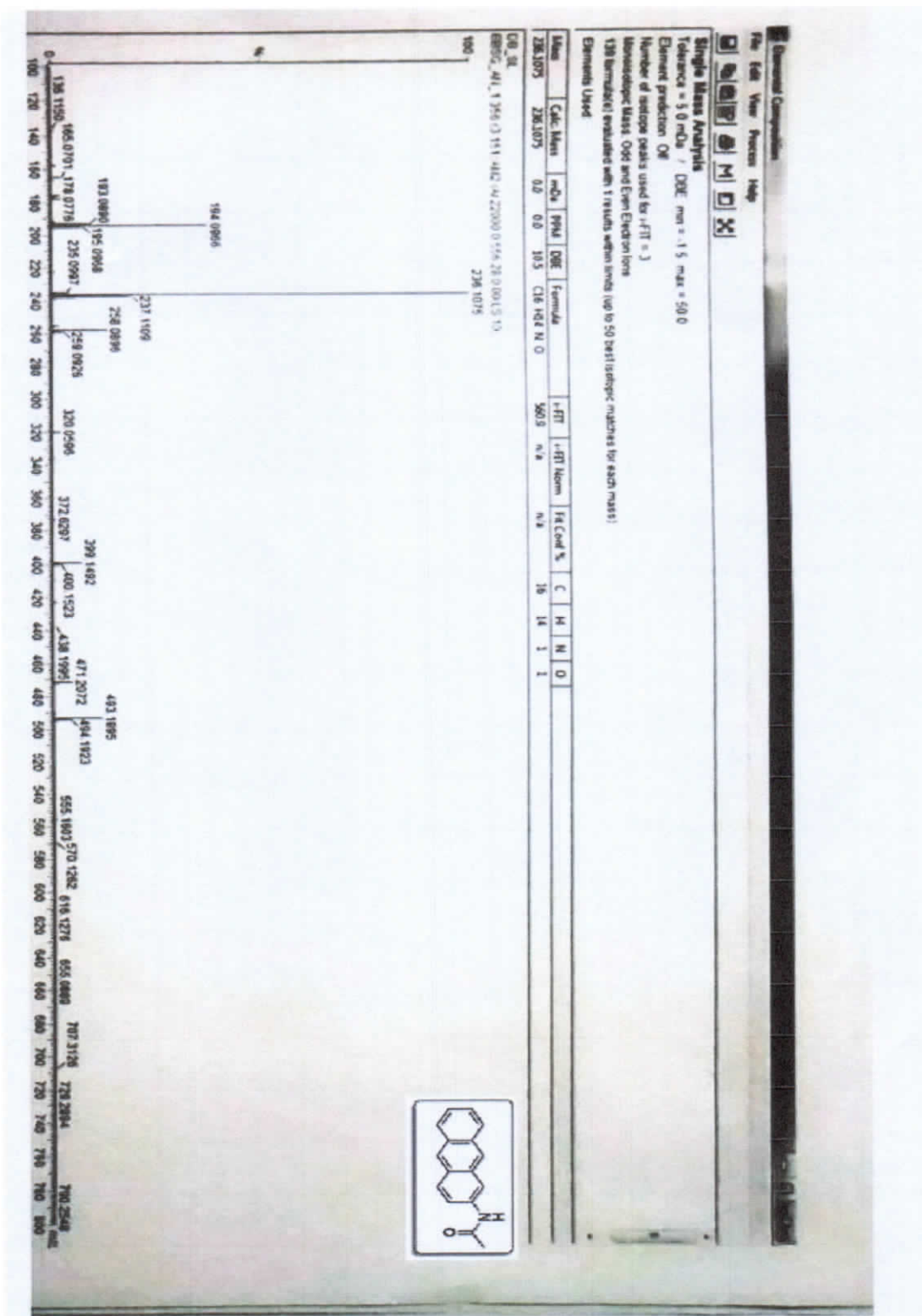
Mass Spectrum of Compound 5:

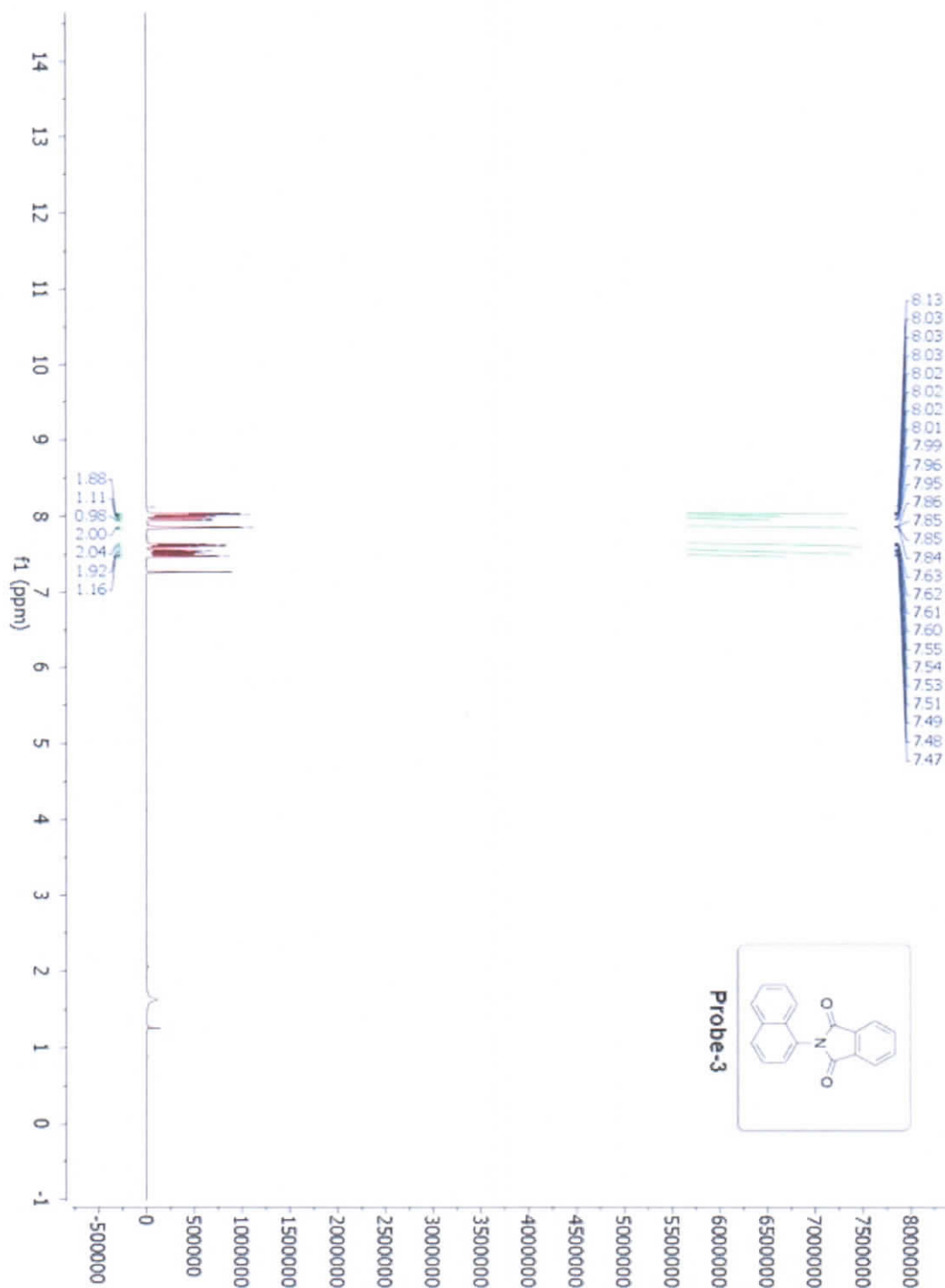
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Mass Spectrum of Compound 7:

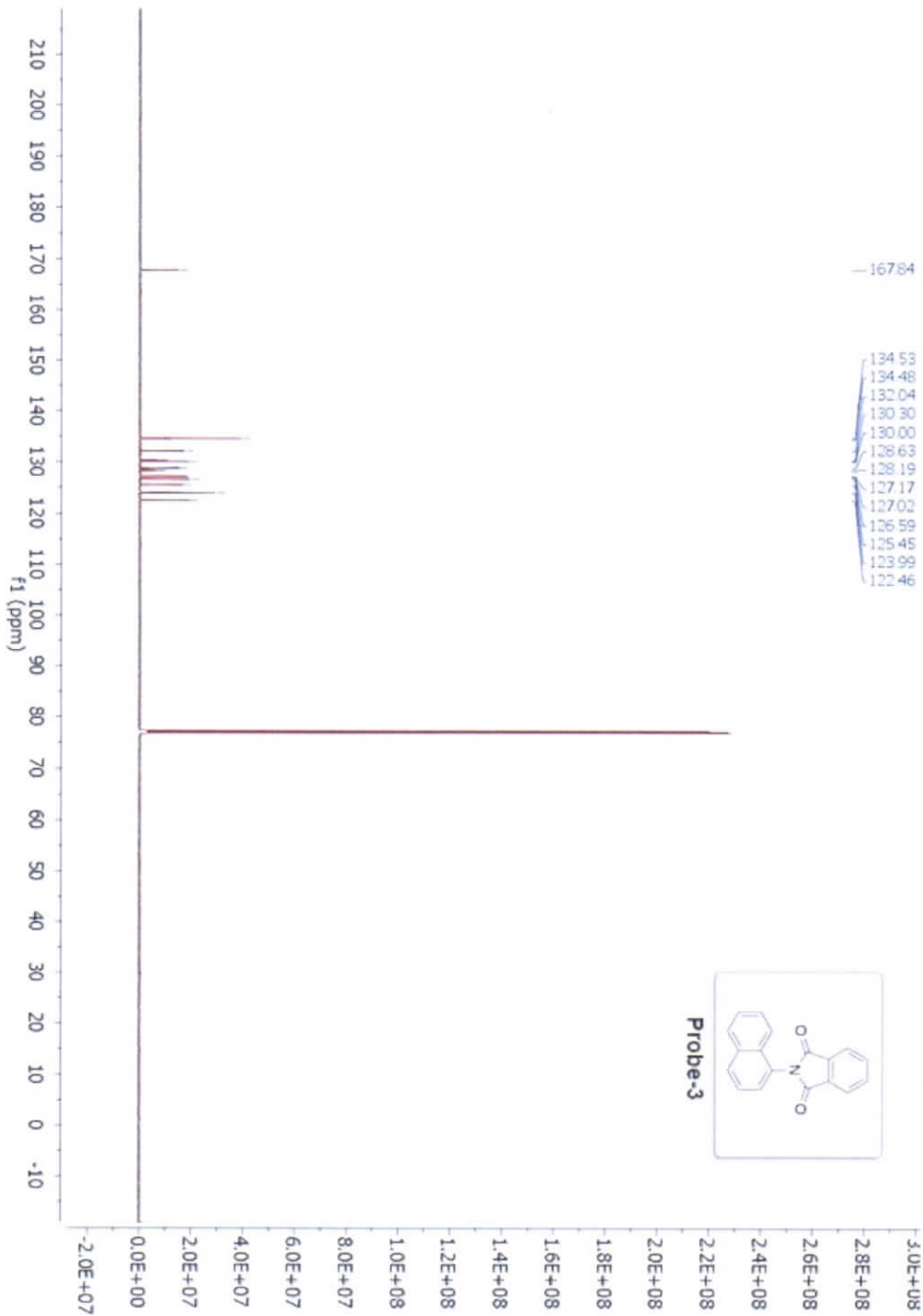


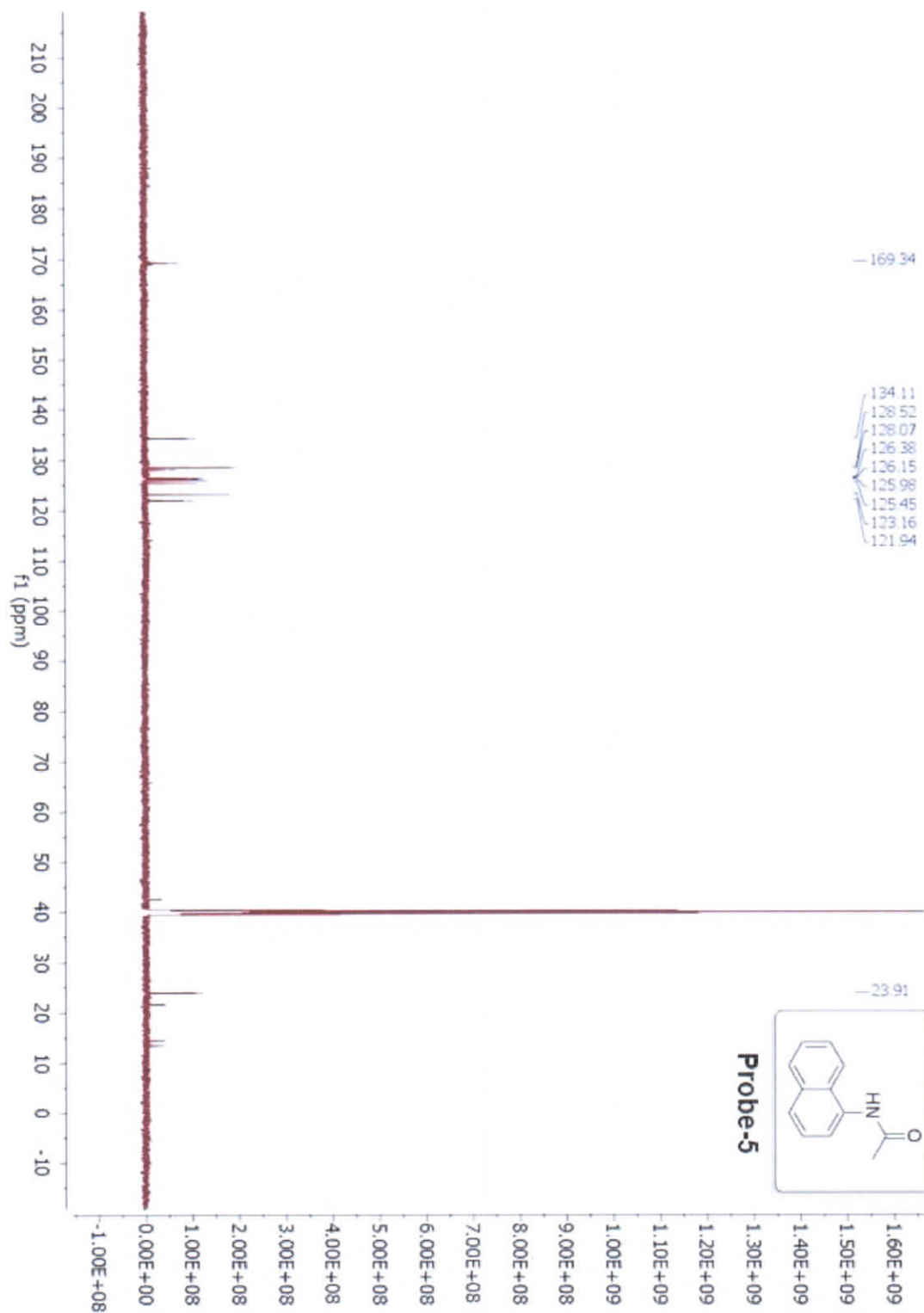
Mass Spectrum of Compound 8:

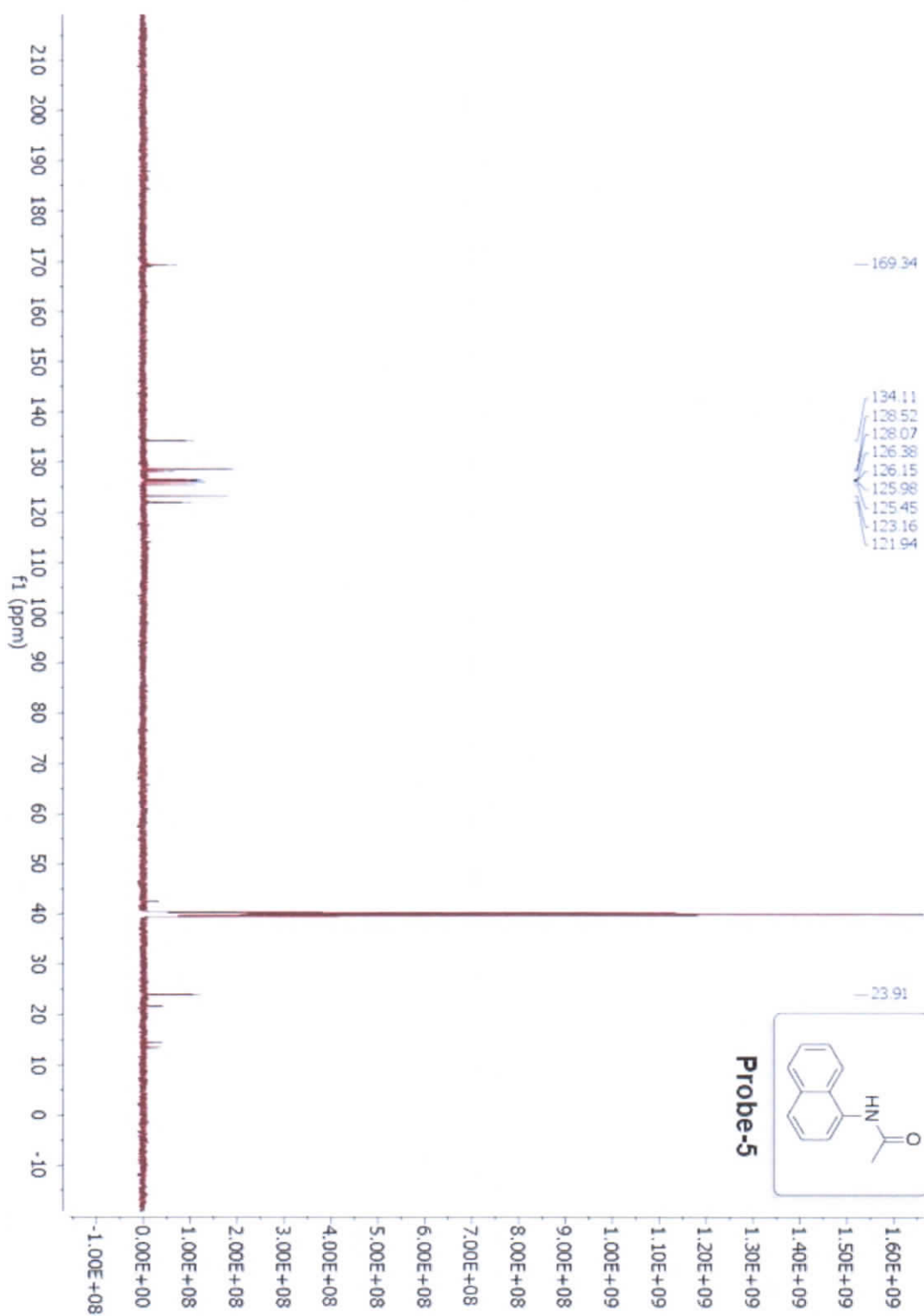


^1H NMR Spectrum of compound 3:

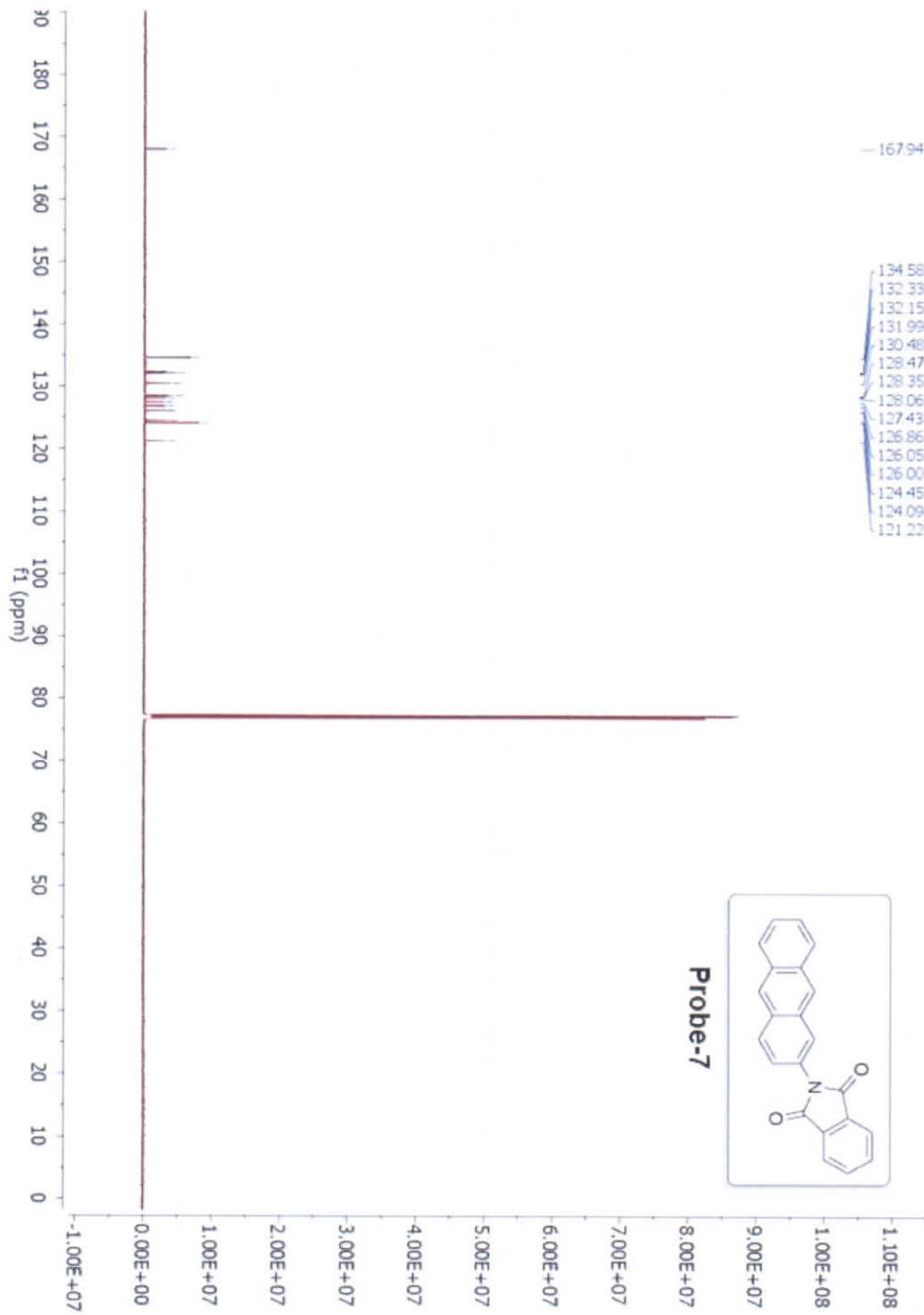
¹³C NMR Spectrum of compound 3:



¹³C NMR Spectrum of compound 5:

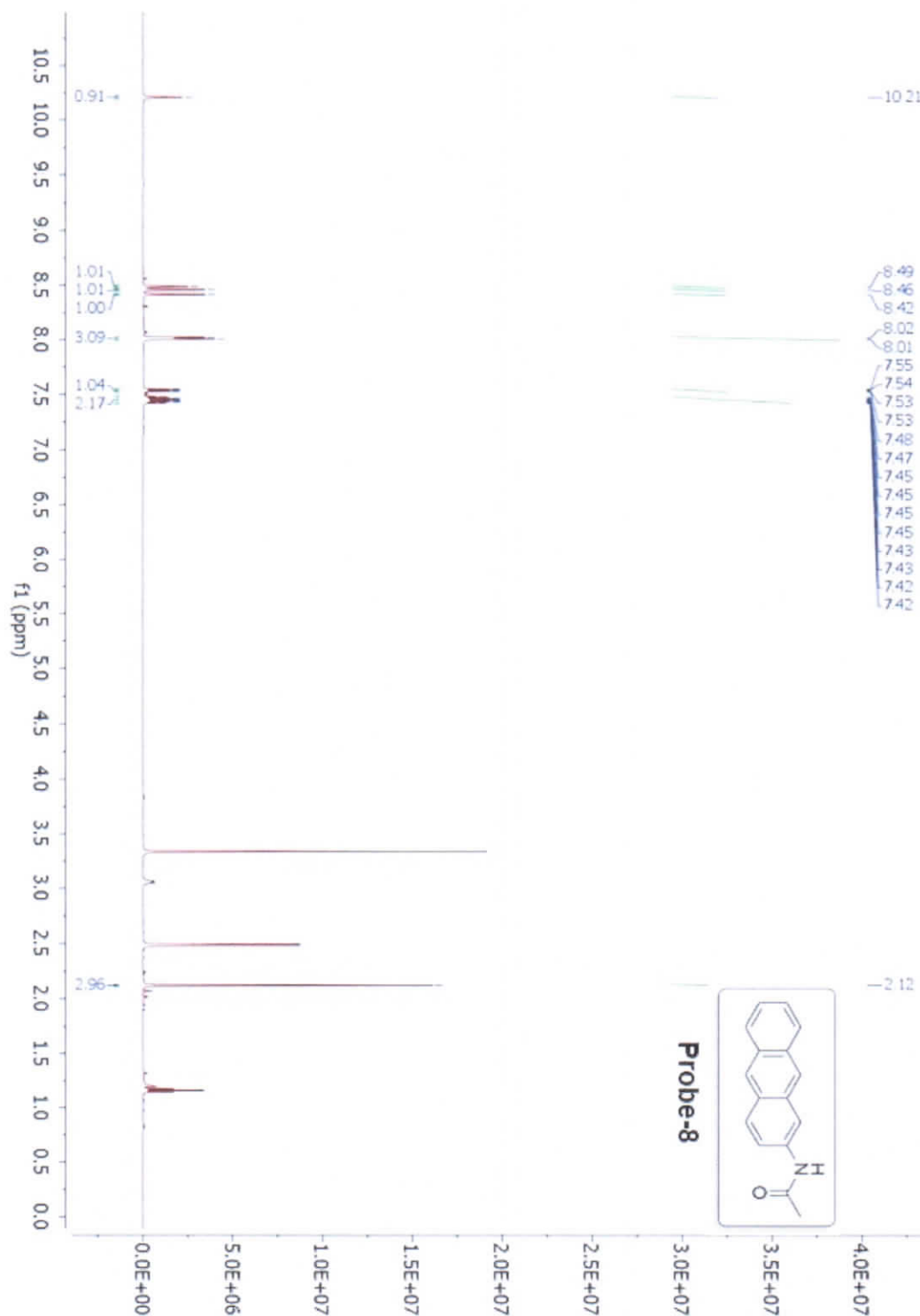
¹³C NMR Spectrum of compound 5:

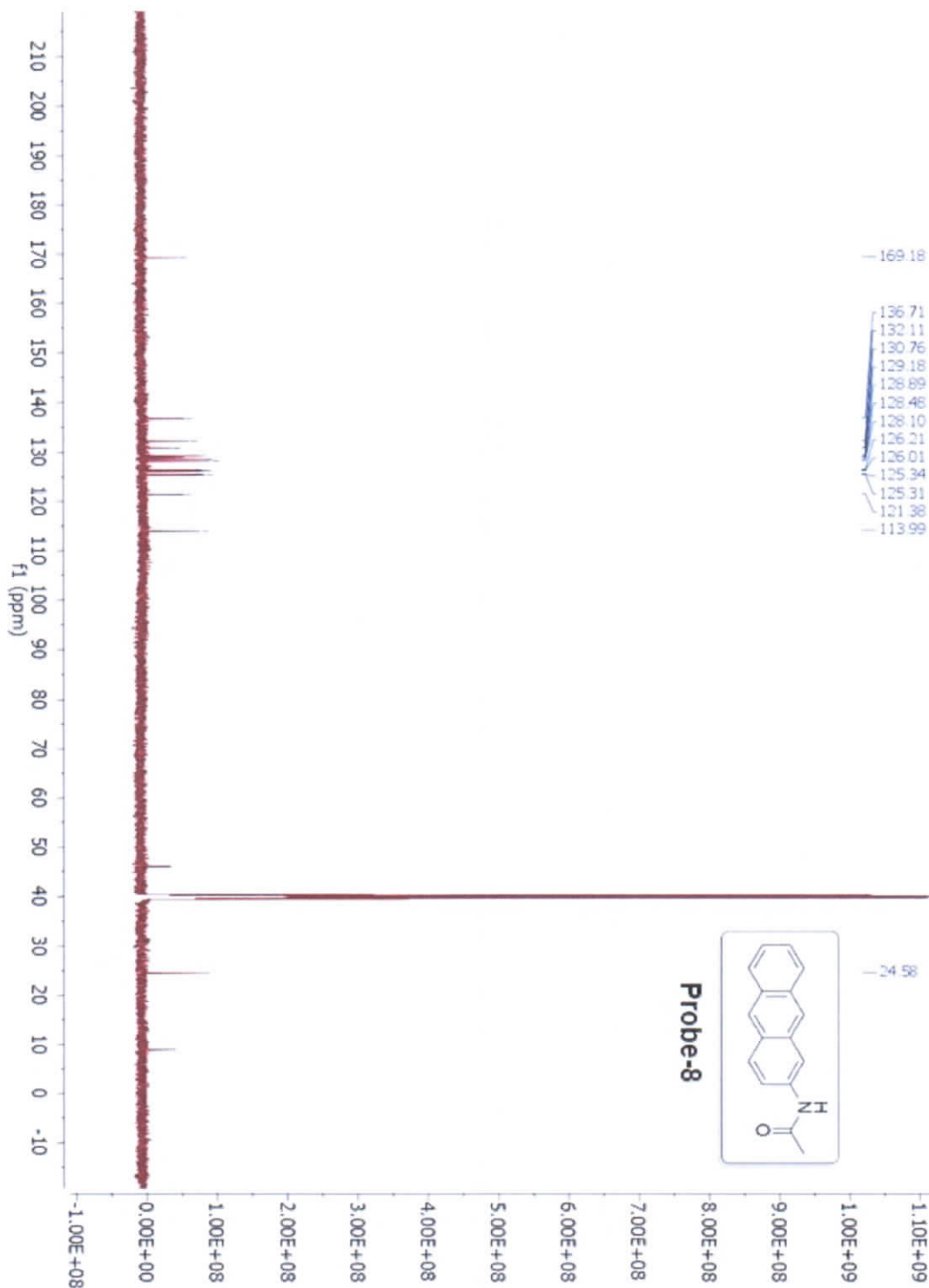
¹³C NMR Spectrum of compound 7:



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¹H NMR Spectrum of compound 8:



^{13}C NMR Spectrum of compound 8:

CONCLUSION

CONCLUSION:


- ❖ To conclude, here we synthesized four probes. Synthesis of each probe was done by an easy single step reaction. All the compounds structures were characterized by Mass and NMR spectroscopies. All the four fluorescent probes showed naked eye detection of hydrazine at 365 nm region by fluorescence turn-on phenomenon. UV spectroscopy studies of probe **3** and Probe **7** done by titration with hydrazine.

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PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

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CASE STUDY LEARNING

Case studies are a written description of a real-life problem or situation. Only the facts are provided, usually in chronologic sequence similar to what would be encountered in a patient care setting. The use of cases actively involves the students in the analysis of facts and details of the case in the traditional format called SOAP analysis, by selection of a solution to the problem and defense of his or her solution through discussion of the case details. In the case based learning students use their recall of previously learned information to solve clinical case. The case method is used primarily to develop the skills of self-learning, critical thinking, problem identification, and decision making. Working on subsequent cases with similar problems reinforces information recall. Case studies in the health sciences provides the personal history of an individual patient and information about 1 or more health problems that must be solved. The students work through the facts of the case, analyze the available data, gather more information, develop hypotheses, consider possible solutions, arrive at the optimal solution and consider the consequences of the learner's decisions. The use of the case studies and other active learning strategies will enhance the development of essential skills necessary to practice pharmacy in any setting, including community, ambulatory care, primary care, health systems. Long term care. Home health care , managed care and the pharmaceutical industry.

S. Arunima
PRINCIPAL
 Dr. K.V.S.R. Institute of Pharmacy
 Opp: Dupadu R.S. N.H-44
 KURNOOL-518218

PHARM.D ROASTERS YEAR WISE(19-20)

Dr. K. V. SUBBA REDDY INSTITUTE OF PHARMACY

(Approved by AICTE & PCI New Delhi, Affiliated to JNTU Anantapur, Anantapuramu,
MoU with Government General Hospital, KMC, Kurnool)

Opp: Dupadu RS, N.H-44, Lakshmipuram (Post), Kurnool-518218

E-mail: principalkvsrip@gmail.com

Cell: +919440282181, +919704333789

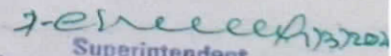
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PHARM.D INTERNSHIP STUDENTS (VI YEAR) HOSPITAL POSTINGS

S.NO	BATCHES	March - April	May - June	July - August	September - October	November - December	January - February
1.	Ashok(14ER1T0001) Prem Chandra Reddy (14ER1T0012)	MM - I	Nephrology (May) Oncology (June)	Gynecology	Pediatrics	FM - II	FM - I
2.	Anusha(14ER1T0002) Sripriya(14ER1T0018)	MM - II	MM - I	Nephrology (July) Oncology (August)	Gynecology	Pediatrics	FM - II
3.	A Dinesh(14ER1T0004) Radhika(14ER1T0013)	MM - III	MM - II	MM - I	Nephrology (September) Oncology (October)	Gynecology	Pediatrics
4.	Irfana(14ER1T0006) Aparna(11Y01T0018)	FM - I	MM - III	MM - II	Pediatrics	Nephrology (November) Oncology (December)	Gynecolog
5.	Keerthana(14ER1T0007) Suvarna(14ER1T0016)	FM - II	FM - I	MM - III	Gynecology	Pediatrics	Nephrolog (January) Oncology (February)
6.	Parveen(14ER1T0011) Shaheen(14ER1T0014)	Pediatrics	FM - II	FM - I	MM - III	Nephrology (December) Oncology (November)	Gynecolog
7.	Albar(14ER1T0009) Muazzama(14ER1T0019)	Gynecology	Pediatrics	FM - II	FM - I	MM - III	Nephrolog (February) Oncology (January)
8.	Sivaleela(14ER1T0015) Swetha(14ER1T0017)	Nephrology (March) Oncology (April)	Gynecology	Pediatrics	FM - II	FM - I	MM - III



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Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H-7,
KURNOOL-518218 (A.P.)


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KURNOOL

HOSPITAL DUTIES AY(19-20) MAR-APRIL

REG NUMBER	NAME OF THE STUDENT	WARD NAME
14ER1R0001	ASHOK	MM-I
14ER1R0012	PREM CHANDRA REDDY	


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Opp: Dupadu R.S. N.H.-44,
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REG NUMBER	NAME OF THE STUDENT	WARD NAME
14ER1R0002	ANUSHA	MM-11
14ER1R0008	SRI PRIYA	

REG NUMBER	NAME OF THE STUDENT	WARD NAME
14ER1R0004	A.DINESH	MM-111
14ER1R0013	RADHIKA	


REG NUMBER	NAME OF THE STUDENT	WARD NAME
14ER1R0006	IRFANA	FM-1
14ER1R0018	APARNA	

REG NUMBER	NAME OF THE STUDENT	WARD NAME
14ER1R0007	KEERTHANA	FM-11
14ER1R0016	SUVARNA	

REG NUMBER	NAME OF THE STUDENT	WARD NAME
14ER1R0011	PARVEEN	PEDIATRICS
14ER1R0014	SHAFEENA	

REG NUMBER	NAME OF THE STUDENT	WARD NAME
14ER1R0009	AKBAR	GYNECOLOGY
14ER1R0019	MAUZAMMA	


REG NUMBER	NAME OF THE STUDENT	WARD NAME
14ER1R0015	SIVALEELA	NEPHROLOGY ONCOLOGY
14ER1R0017	SWETHA	

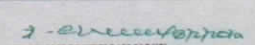

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 KURNOOL-513001 (A.P)

PHARM.D V YEAR AY(19-20):

DR. K.V. SUBBA REDDY INSTITUTE OF PHARMACY DUPADU KURNOOL (M.O.U. With G.G.H.KURNOOL)
PHARM - D V YEAR HOSPITAL POSTINGS

BATCH	FEBRUARY/ MARCH	APRIL/MAY	JUNE/ JULY	AUGUST/ SEPTEMBER	OCTOMBE R/ NOVEMBE R	DECEMBER	JANUARY
15ERIT0014, S.TARUN	SURGERY	CASUALTY & PATIENT COUNCELLING	NEPHROLOGY	GYNECOLOGY	PAEDIATRICS	MM-II	FM-II
15ERIT0020, NAYEEM							
15ERIT0025, SUBRAMANYAM							
15ERIT0004, M. HABIB	FM-II	SURGERY	CASUALTY & PATIENT COUNCELLING	NEPHROLOGY	GYNECOLOGY	PAEDIATRICS	MM-II
15ERIT0006, M.HARI							
15ERIT0024, VINAY KUMAR							
15ERIT0005, M. HARISH	MM-II	FM-II	SURGERY	CASUALTY & PATIENT COUNCELLING	NEPHROLOGY	GYNECOLOGY	PAEDIATRICS
15ERIT0021, AMAL SAJEEV							
15ERIT0026, K. SHIVA KUMAR							
15ERIT0007, R.MOUNISA	PAEDIATRICS	MM-II	FM-II	SURGERY	CASUALTY & PATIENT COUNCELLING	NEPHROLOGY	GYNECOLOGY
15ERIT0012, SYED SAHERA							
15ERIT0023, T. RISHIKA REDDY							
15ERIT0022, C.SHARMILA	GYNECOLOGY	PAEDIATRICS	MM-II	FM-II	SURGERY	CASUALTY & PATIENT COUNCELLING	NEPHROLOGY
15ERIT0009, U. PRATHYUSHA							
15ERIT0010, N. SAMIREN							
15ERIT0019, D. YASMIN	NEPHROLOGY	GYNECOLOGY	PAEDIATRICS	MM-II	FM-II	SURGERY	CASUALTY & PATIENT COUNCELLING
15ERIT0008, V. PRAVALLIKA							
15ERIT0013, P. SWOMYA							
15ERIT0017, M. VINEELA	CASUALTY & PATIENT COUNCELLING	NEPHROLOGY	GYNECOLOGY	PAEDIATRICS	MM-II	FM-II	SURGERY
15ERIT0015, A. VIHARIKA							
15ERIT0016, G. VIJAYA BHARATHI,							
15ERIT0011, D. SHIRISHA							


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SUPERINTENDENT
 Government General Hospital
 Kurnool

REG NUMBER	NAME OF THE STUDENT	WARD NAME
15ERIT0014	S.TARUN	SURGERY
15ERIT0020	NAYEEM	
15ERIT0025	ROHITH SUBRAMANYAM	

REG NUMBER	NAME OF THE STUDENT	WARD NAME
15ERIT0004	M.HABIB	FM-II
15ERIT0006	M.HARI	
15ERIT0024	VINAY KUMAR	

REG NUMBER	NAME OF THE STUDENT	WARD NAME
15ERIT0005	M.HARISH	MM-II
15ERIT0021	AMAL SAJEEV	
15ERIT0026	K.SIVA KUMAR	

REG NUMBER	NAME OF THE STUDENT	WARD NAME
15ERIT0007	R.MOUNISA	PEDIATRICS
15ERIT0012	S.SAHERA	
15ERIT0022	T.RISHIKA REDDY	
15ERIT0023	C.SHARMILA	


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REG NUMBER	NAME OF THE STUDENT	WARD NAME
15ER1T0009	U.PRATHYUSHA	GYNECOLOGY
15ER1T0010	N.SAMREEN	
15ER1T0019	D.YASMIN	

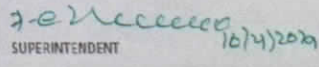
REG NUMBER	NAME OF THE STUDENT	WARD NAME
15ER1T0008	V.PRAVALLIKA	NEPHROLOGY
15ER1T0013	P.SOUMYA	
15ER1T0017	M.VINEELA	


REG NUMBER	NAME OF THE STUDENT	WARD NAME
15ER1T0015	A.VIHARIKA	CASUALITY& PATIENT COUNCELLING
15ER1T0016	G.VIJAYA BHARATHI	
15ER1T0011	D.SIRISHA	

Dr.K.V.Subba Reddy Institute of Pharmacy
MOU with Government General Hospital
PHARM.D IV Year 2015-20 HOSPITAL POSTINGS

BATCH	NAMES	APRIL-JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER-JANUARY
I	16ER1T0004 C. Keerthi	MM-II	FM-IV	MM-IV	PSYCHIATRY	NEPHROLOGY	PEDIATRICS	DVL
	16ER1T0012 S. Sadiya Sameen							
	16ER1T0029 L.Swetha Madurini							
	16ER1T0011 M. Ram Sunil							
II	16ER1T0028 Shaik Shabana Tasheen	DVL	MM-II	FM-IV	MM-IV	PSYCHIATRY	NEPHROLOGY	PEDIATRICS
	16ER1T0019 Sri Kirana Jyothiika							
	16ER1T0025 V. Hari Sushama							
	16ER1T0015 D. Sharon Rose							
	16ER1T0030 D. Jaya Roopa Yoni							
III	16ER1T0014 S. Suma arsham	PEDIATRICS	DVL	MM-II	FM-IV	MM-IV	PSYCHIATRY	NEPHROLOGY
	16ER1T0021 M. Priyanshi							
	16ER1T0017 D. Vibubharthi							
	16ER1T0018 D. Bhavana							
IV	16ER1T0031 B. Akhila	NEPHROLOGY	PEDIATRICS	DVL	MM-II	FM-IV	MM-IV	PSYCHIATRY
	16ER1T0002 M. Akshitha							
	16ER1T0023 P. Javed							
	16ER1T0005 T. Lasya							
V	16ER1T0024 P. Vidhavi	PSYCHIATRY	NEPHROLOGY	PEDIATRICS	DVL	MM-II	FM-IV	MM-IV
	16ER1T0027 K. Manasa							
	16ER1T0013 M. Sai Deepika							
	16ER1T0023 S. Subba Reddy							
VI	16ER1T0026 S. Manikanta	MM-IV	PSYCHIATRY	NEPHROLOGY	PEDIATRICS	DVL	MM-II	FM-IV
	16ER1T0020 S. Lokesh royal							
	16ER1T0007 G. Naveen Babu							
	16ER1T0008 Anand kishore							
VII	16ER1T0009 P. Prema Latha	FM-IV	MM-IV	PSYCHIATRY	NEPHROLOGY	PEDIATRICS	DVL	MM-II
	16ER1T0010 M. Ramanjaneyulu							
	16ER1T0016 M. Venkata Raga vasavi latha							
	16ER1T0026 L. Grace							


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 Opp: Dupadu R.S. N.H. 44,
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Dr. K.V. Subba Reddy Institute of Pharmacy

(Approved by AICTE, P.C.I New Delhi & Affiliated to JNTUA Anantapuramu,
MoU with Government General Hospital & KMC, Kurnool)

Opp. Dupadu Railway Station, Lakshmpuram (Po), N.H - 44, KURNOOL - 518 218, A.P. INDIA.

Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

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ISSN-L : 0911-0585

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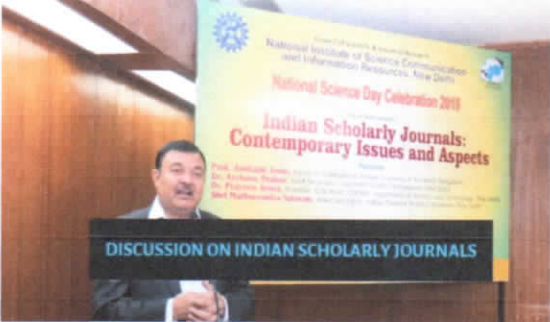
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11. DELNET Guest House Facilities

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1. Single occupancy	Rs. 2,000 (+10% GST) (+Rs. 1500)	
2. Double occupancy		Rs. 3,000 (+10% GST) (+Rs. 1500)
3. Suite		Rs. 4,000 (+10% GST) (+Rs. 1500)

The rates for other facilities can be obtained by contacting the house. For more information, look under the DELNET Home page.

PUBLICATIONS

1. NALIN Conferences

The proceedings of the National Association of Librarians, Library and Information Scientists, NALIN, are published every two years. The books are available in both printed and electronic formats.

2. DELNET Newsletter

The DELNET Newsletter is published regularly to provide information to the member institutions. The newsletter contains news about the activities, achievements and events of the member institutions and their services.

3. Member Support

DELNET provides a support system to its member institutions. The support system includes technical assistance, training and other services.

4. Other Publications

DELNET publishes a number of other publications. These publications are available in both printed and electronic formats.

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1. Networking of DELNET Approved Institutions

DELNET is a network of member institutions. The member institutions are located in various parts of India. The member institutions are connected to each other through a network of computers. This network allows the member institutions to share information and resources.

2. National Bibliographic Database

DELNET is a national bibliographic database. It contains information about the books, journals and other publications available in India. The database is available online and can be searched from anywhere in the world.

3. Knowledge Centre

DELNET is a knowledge centre. It provides information about the books, journals and other publications available in India. The knowledge centre is available online and can be searched from anywhere in the world.

DELNET MEMBERSHIP

1. Membership Rates

DELNET is a membership organization. The membership rates are as follows:

Category	Annual Fee
Individual	Rs. 1,000 (+10% GST)
Corporate	Rs. 5,000 (+10% GST)

The membership rates are subject to change without notice. For more information, look under the DELNET Home page.

2. Who Can Join

Any individual or organization can join DELNET. The membership is open to all who are interested in library and information science. The membership is open to all who are interested in library and information science.

3. Membership Benefits

Members of DELNET enjoy a number of benefits. These benefits include access to the DELNET database, access to the DELNET newsletter, and access to the DELNET support system. Members of DELNET also enjoy access to the DELNET guest house facilities.

1. Membership Rates

Individual and other SAARC Countries

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Corporate	Rs. 5,000 (+10% GST)

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Networking Libraries, Sharing and Spreading Knowledge


For more details write to:
Dr. Sangareti Kaul
Principal
DELNET-Developing Library Network
JNU, Campus, Nelson Mandela Road, New Delhi - 110070
New Delhi - 110070
Tel: 91-11-26742222, 26742222, 26742222
26742222, 26742222, 26742222
Email: sangareti@delnet.in, sangareti@delnet.in
www.delnet.in
November 1, 2022

Sikemane
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- palani-sande hi
- Atharva Ghone Hi
- Shagunee Karan good evening sir
- Ravi Sharma hello sir

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Number of teachers and students using the library per day over last year

Last page of accession register	Method of computing Per day usage of library	No. of users using library through e-access per day	No. of teachers accessing library per day	No. of students accessing library per day	Certified E-copy of the ledger of the data for 5days	Certified screenshots of the data for 5 days for online access
-	Gate register	195	41	355	-	-

Percentage per day usage of library by teachers and students:


Number of students=650

Number of teachers=51

Formula= (Number of teachers and students using the library perday/Total number of teachers and students) X 100

= (591/650) X100

=90.92


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Dr. K.V. Subba Reddy Institute of Pharmacy

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MoU with Government General Hospital & KMC, Kurnool)

Opp. Dupadu Railway Station, Lakshmipuram (Po), N.H - 44, KURNOOL - 518 218, A.P. INDIA

Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

WORKSHOP & GUEST LECTURES :

AY @ 2019-20		
1.	One day seminar /hackathon on role and responsibility of pharma-professionals in health care	Dr. M. Kishore Babu
2.	A webinar on HPTLC-technique &herbal application of stress management in different situations	Mr. G. AVinash
3.	Seminar on Application of QbD in pharmaceutical product development	Mr. M.Vageesh
4.	Webinar on Basics and application of bio pharmaceutics in Drug Delivery System startup in life sciences.	Mr. Abhi Kumar turakhiya
5.	One day seminar on "Role of the Clinical Pharmacist on Endocrinology related diseases"	Dr. Thirumalesh Goud (CES)
6.	Conference on "Role of Clinical Pharmacist on Pain Management"	Dr. B. Chandra Sekhar
7.	Workshop on Research Methodology & Biostatistics	Dr. M. Suresh Babu (KVSRT)
8.	One day workshop on theoretical basis for in silico methods in Biopharmaceutics and pharmacokinetics	Dr. M. Kishore Babu (Krishna Teja)
9.	One Day Workshop on Clinical Research and Regulatory Requirements	Mr. V. Rambabu
10.	One Day Workshop on Drug Safety	Mr. K. Pavan Kumar
11.	One Day Workshop on Leadership and Management skills	Dr. K. Sucharita (MBA-KVSRT)
12.	One Day seminar on Practice opportunities for Indian Pharmacy Practice Students	Dr. Thirumalesh Goud (CES)
13.	One day webinar Pharmacometrics applications in drug development and patient care	Dr. L. Karthik
14.	One day conference on "What Properties Are Important for Antimalarials?"	Dr. N. Nanda Kishore
15.	One day webinar on "Applications and recent advances of CADD in drug discovery process"	Mrs. T. Sri Laxmi (Dr. Reddy's)

S. Sankar

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Opp. Dupadu Railway Station, Lakshimpuram (Po), N.H - 44, KURNOOL - 518 218, A.P. INDIA

Website : www.drkvsrip.in

e-mail : principaikvsrip@gmail.com

PHARMACY SEMINARS :

DR.K.V.SUBBAREDDY INSTITUTE OF PHARMACY,DUPADU,KURNOOL				
Details of Pharmacy Seminars given by B.Pharmacy Students in Academic Year 2019-20				
S.No.	Roll No.	Name of the Student	Title	Presentation Date
1	19B.RI100004	B. SUREEJA BAI	CELLUL DISEASES	02/2019
2	19B.RI100011	D. SREYA REDDY	CHILD AND ADOLESCENT PSYCHIATRY	02/2019
3	19B.RI100016	G. HARISHA	CHRONIC KIDNEY DISEASE	02/2019
4	19B.RI100035	K. NAVANEETHA	CHRONIC LEUKEMIA	02/2019
5	19B.RI100076	P. MOJUNIKA	COPE	02/2019
6	19B.RI100090	C. KISHORE BABU	COLORRECTAL CANCER	02/2019
7	19B.RI100093	KUNCHA MANASA	CORNIA AND EXTERNAL DISEASE	02/2019
8	19B.RI100016	GOGULA TARUN KUMAR	CORONAVIRUS (COVID-19)	13/02/2020
9	19B.RI100017	GOTLA YELLA SWAMY	DENTAL AND ORAL HEALTH	13/02/2020
10	19B.RI100018	GUDDIMARALLA KAVIN KUMAR	DEPRESSION	13/02/2020
11	19B.RI100022	KURUVA SURESH	DIABETIC MICROVASCULAR COMPLICATIONS	13/02/2020
12	19B.RI100032	NARLA LIKHITA	DIALYSIS	13/02/2020
13	19B.RI100035	PALLAPU SANDYA RANI	ELECTRONIC HEALTH RECORDS	13/02/2020
14	19B.RI100037	PICHICHINTLA MAHESH	EMERGING AND REEMERGING INFECTIOUS DISEASES	13/02/2020
15	17B.RI100002	A. SUNITHA	END-STAGE RENAL DISEASE	01/12/2018
16	17B.RI100009	BOYA VIDYAVANI	GALLBLADDER AND BILIARY DISEASE	01/12/2018
17	17B.RI100016	DANDU MADHUSUDHAN	GENOMIC MEDICINE	01/12/2018
18	17B.RI100019	DANIVATHI PRAVALIKA	GRIPE	01/12/2018
19	17B.RI100022	GOGULA MADHU SHEKAR	ERECTILE DYSFUNCTION	01/12/2018
20	17B.RI100025	BOMMAKA BHARGAVA REDDY	ETHICS	01/12/2018
21	17B.RI100027	GITTAIAH HEMALATHA	HEAD AND NECK CANCER	01/12/2018
22	16B.RI100015	MAJJEPOGU MAHESH	HEADACHE	02/12/2017
23	16B.RI100018	PAGIDI MARY	HEALTH UTILITY	02/12/2017
24	16B.RI100029	HEKKA PRATHIVISHA	LUNG CANCER	02/12/2017
25	16B.RI100076	BHEEMAMITLA PRAVEEN RAO	LYME DISEASE	02/12/2017
26	16B.RI100074	DUDUKU A. SHAIKAHAMUD	OB/GYN AND WOMEN'S HEALTH NURSING	02/12/2017
27	16B.RI100056	SHAIK SHAIKETH	OBESITY AND WEIGHT MANAGEMENT	02/12/2017
28	16B.RI100079	YELLA SRI TEJA	PATIENT SAFETY	02/12/2017
Details of Pharmacy Seminars given by Pharm.D Students in Academic Year 2019-20				
S.No.	Roll No.	Name of the Student	Title	Presentation Date
1	19B.RI100045	B. ASWINI BAI	INSULIN THERAPY	2/7/2020
2	19B.RI10006	C. SUSHMA	INJECTIVE MEDICINE	2/7/2020
3	19B.RI100092	G. ARUNIKA	INTERVENTIONAL CARDIOLOGY & SURGERY	2/7/2020
4	19B.RI100011	K. SAI CHAITANYA	RENAL CELL CARCINOMA	2/7/2020
5	19B.RI100015	V. VAMSI KRISHNA	REPRODUCTIVE ENDOCRINOLOGY	2/7/2020
6	19B.RI100017	B. VENKATESH	RESIDUALS	2/7/2020
7	19B.RI100018	B. MOJUNIKA	RESTLESS LEGS SYNDROME	2/7/2020
8	19B.RI100043	GANTI VEDHA CHIKITHA	RHEUMATOID ARTHRITIS	4/11/2019

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9	19B.RI100066	JAKKA DIVYA SHRI	SCHIZOPHRENIA	4/11/2019
10	19B.RI100067	ME. NAGALA S. SANTI PRAKASANA	PEDIATRIC DERMATOLOGY	4/11/2019
11	19B.RI100091	MURUKESHI S. JAS. S. DUSHA	HODGKIN'S LYMPHOMA	4/11/2019
12	19B.RI100072	SHAIK. T. SHIBRA. BATHU	PEDIATRIC OPHTHALMOLOGY	4/11/2019
13	19B.RI100077	SINGU GU. R. ROSHITHA	URINARY INCONTINENCE & DSD	4/11/2019
14	19B.RI100021	K. KATUHAN. K. L. K. L. HANNA	NEUROLOGICAL VENTILATION	4/11/2019
15	17B.RI100004	DAVA SNEHA	MEDICAL HISTORY	02/12/2017
16	17B.RI100006	V. VAMSI KRISHNA	MEDICAL MALPRACTICE AND LEGAL ISSUES	02/12/2017
17	17B.RI100007	KATIKI HIRAVANI	MEDICAL PRACTICE MANAGEMENT	02/12/2017
18	17B.RI100017	ANBATHI KASTURI	SLEEP DISORDERS	02/12/2017
19	17B.RI100019	J. PAVITHRA	SPECIAL INTERACTIONS OF HEALTH	02/12/2017
20	17B.RI100023	PHILIPPIYA	SPINAL DISORDERS	02/12/2017
21	17B.RI100025	B. MANJARA DEVAR	PERIPHERAL VASCULAR	02/12/2017
22	19B.RI100043	PATHAN JAVIED	PERIPHERAL VASCULAR NURSING	11/2/2019
23	19B.RI100044	C. H. N. CH. R. DEVGAR. K. P. R. TH. H.	PHLEBOLOGY	11/2/2019
24	19B.RI100048	ASAD. S. A. H. S. H.	PHLEBOLOGY	11/2/2019
25	19B.RI100059	P. PREMAJATHA	MINIMALLY INVASIVE GASTROINTESTINAL SURGERY (MIGS)	11/2/2019
26	19B.RI100044	SHAIK. S. S. S. S. S. S. S.	MODERATE TO SEVERE ASTHMA	11/2/2019
27	19B.RI100048	DEVA S. S. S. S. S. S. S.	JOINT DISORDERS	11/2/2019
28	19B.RI100048	BOGGAM. B. G. V. A. S. A.	KIDNEY & PANCREAS TRANSPLANT	11/2/2019

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Dr. K.V.S.R. Institute of Pharmacy
Opp. Dupadu R.S. N.H. - 44
KURNOOL-518218 (A.P.)

S. Hemana

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Dr. K.V.S.R. Institute of Pharmacy
Opp. Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)



Dr. K. V. SUBBA REDDY INSTITUTE OF PHARMACY

(Approved by AICTE & PCI New Delhi, Permanent Affiliated to JNTU Anantapur, Anantapuramu,
MoU with Government General Hospital, KMC, Kurnool)

Opp: Dupadu RS, N.H-44, Lakshmipuram (Post), Kurnool-518218

E-mail: principalkvsrip@gmail.com

Cell: +919440282181, +919704333789

Fax: 08518-287618

DEPARTMENT OF PHARMACY (2019-2020)

CIRCULAR

DATE : 17/08/2019

All the faculty and students here by informed that the Group Discussion Program will be conducted for B pharmacy & Pharm.D students on the 19th August 2019 as per the following schedule. All the faculty & students are instructed to note the same and attend the program as per the schedule.

Copy to faculty members

[Handwritten signatures and initials of faculty members]

[Handwritten signature]
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Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

[Handwritten signature]
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44
KURNOOL-518218 (A.P.)



Group Discussion Session

AY: 2019-2020

Group Discussions help to check students 'interactive skills and how effective they are in communicating with people. The GD is to check how one behave, participate and contribute in a group, how much importance do you give to the group objective as well as your own, how well do you listen to viewpoints of others and how open-minded are you in accepting views contrary to your own.

The aspects which make up a GD are verbal communication, non-verbal behavior, and conformation to norms, decision-making ability and cooperation. The following skills are required in GD

- ◆ Communication Skills
- ◆ Interpersonal Skills
- ◆ Leadership Skills
- ◆ Motivational Skills
- ◆ Team Building Skills
- ◆ Tolerance
- ◆ Clarity over Ambiguity
- ◆ Divergent Thinking
- ◆ Listening skills
- ◆ Presentation Skills
- ◆ Analytical / Logical skills

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Topic:

Cost of treatment at private health care centre should be capped too :

The corona virus pandemic has served to rewrite the priorities of the country's healthcare system. The surge in the number of cases and the lopsided nature of the medical facilities available, where the government sector is woefully inadequate while the private sector is mostly beyond the reach of the majority, have meant a resetting of the strategy by seeking to make the treatment affordable.



Private hospitals, on their part, have maintained that the capping of the cost is unfair as it also means treating the underlying co-morbidities. The focus has to be on clinical outcome, not just the cost. The high cost of treatment in private hospitals has also been ascribed to the health cess imposed in this year's Budget on the import of medical equipment which most private hospitals do to provide specialised healthcare. Actually, therefore, the initiative to put a cap on the cost of treatment should have come from the Centre itself, instead of leaving it to the states.

M. K. S. R.
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Dr. K.V.S.R. Institute of Pharmacy
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Batch of 19 B.Pharm students attended the session conducted on 19/08/2019.

Sibumane

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Dr. K. V. SUBBA REDDY INSTITUTE OF PHARMACY

(Approved by AICTE & PCI New Delhi, Permanent Affiliated to JNTU Anantapur, Anantapuramu,
MoU with Government General Hospital, KMC, Kurnool)

Opp: Dupadu RS, N.H-44, Lakshmipuram (Post), Kurnool-518218

E-mail: principalkvsrip@gmail.com

Cell: +919440282181, +919704333789

Fax: 08518-287618

DEPARTMENT OF PHARMACY (2019-2020)

CIRCULAR

DATE : 13/06/2019

All the faculty and students here by informed that the Debate Program will be conducted for B pharmacy & Pharm.D students on the 15/06/2019 as per the following schedule. All the faculty & students are instructed to note the same and attend the program as per the schedule.

Copy to faculty members

[Handwritten signatures of faculty members]

[Handwritten signature]
PRINCIPAL
Dr. K.V.S. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44
KURNOOL-518218 (A.P.)

[Handwritten signature]
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44
KURNOOL-518218 (A.P.)



Debate

AY : 2019-2020

Debate is a process that involves formal discourse on a particular topic, often including a moderator and audience. In a debate, arguments are put forward for common opposing viewpoints. Debates have historically occurred in public meetings, academic institutions, debate halls, coffee houses, competitions, and legislative assemblies. Debates has also been conducted for educational and recreational purposes, usually associated with educational establishments and debating societies.

1. Develop excellent oral and written communication skills.
2. Develop excellent critical thinking skills.
3. Develop effective tools for research, organization and presentation.
4. Develop strategies to overcome fears of public speaking.
5. Discover the confidence and desire to participate in all academic classes.

Benefits :

- Confidence - Belief in themselves and their abilities, and the desire to participate in all classes.
- Curiosity - The passion of discovery through effective tools for research, organization and presentation.
- Critical Thinking - How to explore the world through the lens of an inquisitive mind.
- Communication – Oral & written skills and strategies for lively yet respectful discussions & disagreements.
- Control – Eliminate the fears of public speaking.
- Creativity – The desire to explore, create and invent.
- Camaraderie – Meet like-minded peers at tournaments and build healthy bonds of competition.
- Leadership – Self-motivation and the ability to delegate assignments and manage peers.

Debates teaches individuals the importance of being prepared to listen. First, it trains people in the mental preparation of listening – having a listening plan. During a debate you listen for specific things, points you want to answer, weakness in logic, supporting material and key points.

Summary

Using debates in the classroom provides students the opportunity to explore real-world topics and issues. Debates also engage students through self reflection and encourage them to learn from their peers.

Subbaram
 Dr. K.V.S.R. Institute of Pharmacy
 Opp. Dupadu Railway Station, Lakshmipuram (Po), N.H - 44, KURNOOL - 518 218, A.P. INDIA.

Topic:

Does social media affect teenager??

In this 21st century, with the advancement of technology, the internet is available to everyone, no longer being confined to metropolitan cities or internet cafes. It has crossed the threshold and is available at our fingertips. With the spread of the internet, there is a rise in the use of social media and specially there is a hike in usage by teens. Though there is an age limit provided by some of these social media platforms but there is no hard and fast rule and by just altering your birth year, you're good to go.



Using Social media has its own set of pros and cons. They affect a child in both positive as well as negative ways. There is an ongoing debate about whether or not high school goers should be allowed to use social media. But, the harsh truth is that it is beyond our control. So we have to

Sikemane
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N. D. - 44,
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digest the fact that teens will use social media even if we don't want them to. However, social media use can also negatively affect teens, distracting them, disrupting their sleep, and exposing them to bullying, rumor spreading, unrealistic views of other people's lives and peer pressure. The risks might be related to how much social media teens use.



A debate on “**Does social media affect teenager??**” was conducted on 15/06/2019 and the students of CSE branch have actively participated in this session.

S. Sumanee
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Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
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Dr. K.V. Subba Reddy Institute of Pharmacy

(Approved by AICTE, P.C.I New Delhi & Affiliated to JNTUA Anantapuramu,
MoU with Government General Hospital & KMC, Kurnool)

Opp. Dupadu Railway Station, Lakshmipuram (Po), N.H - 44, KURNOOL - 518 218, A.P. INDIA

Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

Date: 28/09/2019

DEPARTMENT OF PHARMACY (2019-2020)

CIRCULAR

All the I year B. pharmacy faculty and students here by informed that the bridge course will be conducted for I year B. pharmacy & Pharm.D students on 7/10/2019 as per the following schedule. All the faculty & students are instructed to note the same and attend the classes as per the schedule.

S.NO	DATES	TIME	SUBJECT	FACULTY
1	07-10-2019 TO 011-10-2019	9-10AM	PHARMACEUTICAL CHEMISTRY	Dr.N.PADMAJA
2	07-10-2019 TO 011-10-2019	10-11AM	PHARMACEUTICAL ANALYSIS	P. T.NAGA RAJU
3	07-10-2019 TO 011-10-2019	11-12PM	MATHEMATICS/BIOLOGY	V.ANU RADHA/ARUNA MADAM
4	07-10-2019 TO 011-10-2019	2-3PM	COMMUNICATION SKILLS	S.SREELEKHA

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PRINCIPAL
Dr. K.V.S.B. Institute of Pharmacy
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KURNOOL-518218 (A.P.)

PHARMACEUTICAL CHEMISTRY:

S.NO	TOPIC NAME	NO.OF HOURS
1	Introduction to pharmaceutical chemistry	2
2	Basics of chemistry	2
3	General preparations and methods of compounds	2
4	methods of radio pharmaceuticals preparations	2
5	Basic tests for purity of compounds	2
	Total	10

PHARMACEUTICAL ANALYSIS:

S.NO	TOPIC NAME	NO.OF HOURS
1	Basic concepts of analysis	2
2	Basic theories of titration methods	2
3	Different preparation & Methods of standardization	2
4	Concepts of oxidation & reduction	2
5	Methods of electro chemical methods of analysis	2
	Total	10

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Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

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PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44
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MATHEMATICS:

S.NO	TOPIC NAME	NO.OF HOURS
1	Theory and their application in pharmacy	2
2	Solving different types of problems by applying theory	2
3	Basic introduction of Logarithms	2
4	Basic introduction of Matrices and Determinant	2
5	Applications in solving chemical kinetics and pharmacokinetic equations	2
	Total	10

COMMUNICATION SKILLS:

S.NO	TOPIC NAME	NO.OF HOURS
1	Learning Basic communication skills	2
2	basic learning of listening skills	2
3	Basic understanding of writing skills	2
4.	Learning of presentation skills	2
5	Learning of interview skills	2
	Total	10

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PRINCIPAL
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

S. Srinivasa
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

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BRIDGE COURSE ATTENDANCE B.PHARMACY I YEAR(19-20)

S.NO	NAME OF THE STUDENT	7/10/2019	8/10/2019	9/10/2019	10/10/2019	11/10/2019
1	AKULA SRILATHA	✓	✓	✓	✓	✓
2	ANUPA SANDEEP KOMAR	✓	✓	✓	✓	✓
3	B G ALEESWAR	✓	✓	✓	✓	✓
4	B SUPRIYA BAI	✓	✓	✓	✓	✓
5	BARSARI SARITHA	✓	✓	✓	✓	✓
6	BHOOME POORNIMA SAI	✓	✓	✓	✓	✓
7	BOYA SAI DIVYA	✓	✓	✓	✓	✓
8	BYEDINNE VINOD KUMAR	✓	✓	✓	✓	✓
9	CHATAKONDA SRI LASYA	✓	✓	✓	✓	✓
10	CHIDIGE SANDHYA	✓	✓	✓	✓	✓
11	DASARI SREYA REDDY	✓	✓	✓	✓	✓
12	DEBEDIY MAHESHA	✓	✓	✓	✓	✓
13	DESAM KRISHNA PRIYA	✓	✓	✓	✓	✓
14	DONGAKARI YASODNA BAI	✓	✓	✓	✓	✓
15	DUDUKULA ASHA	✓	✓	✓	✓	✓
16	GANGUGA HARSHA	✓	✓	✓	✓	✓
17	GOLLA SIDDU	✓	✓	✓	✓	✓
18	GUJULA JAHNVI	✓	✓	✓	✓	✓
19	GURRAM ANITHA	✓	✓	✓	✓	✓
20	KADE GEETHA MOUJKA	✓	✓	✓	✓	✓
21	KAMASAMODRAN SUSHMANTH	✓	✓	✓	✓	✓
22	KAMATAM NANDA KISHORE	✓	✓	✓	✓	✓
23	KAMMARI BHARANI	✓	✓	✓	✓	✓
24	KASETTY NAVEEN SAI KUMAR	✓	✓	✓	✓	✓
25	KASIREDDYGARI NAVANEETHA	✓	✓	✓	✓	✓
26	KILAL PAVAN KUMAR	✓	✓	✓	✓	✓
27	KOKKALAHGARI ANUSHA	✓	✓	✓	✓	✓
28	KONAPURAM NAKSATHA	✓	✓	✓	✓	✓
29	KOTHAKOTA KEERTHI	✓	✓	✓	✓	✓



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MoU with Government General Hospital & KMC, Kurnool)

Opp. Dupadu Railway Station, Lakshmipuram (Po), N.H - 44, KURNOOL - 518 218, A.P. INDIA

Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

Date : 5/10/2019

DEPARTMENT OF PHARMACY (2019-2020)

CIRCULAR

All the II year B. Pharmacy faculty and students here by informed that the bridge course will be conducted for II year B.Pharmacy later entry students on 09-10-2019 to 12-10-2019 as per the following schedule. All the faculty & students are instructed to note the same and attend the classes as per the schedule

S.NO	DATES	TIME	SUBJECT	FACULTY
1	09-10-2019 to 12-10-2019	10-11AM	PHARMACEUTICAL CHEMISTRY	R.MOHANA PRIYA
2	09-10-2019 to 12-10-2019	11-12PM	COMPUTER APPLICATIONS	S.FATHIMA

COPY TO FACULTY MEMBERS

Prिया
S.Fathima

PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

S. Fathima
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

CHEMISTRY:

S.NO	TOPIC NAME	NO.OF HOURS
1	Introduction to pharmaceutical chemistry	2
2	Basics of chemistry	2
3	General preparations and methods of compounds	2
4	methods of radio pharmaceuticals preparations	2
5	Basic tests for purity of compounds	2
	TOTAL	10

COMPUTER APPLICATIONS:

S.NO	TOPIC NAME	NO.OF HOURS
1	Types of applications of computers in pharmacy	2
2	Concepts of information system and softwares used in pharmacy	2
3	Web technologies (HTML,XML,CSS,MS ACCESS)	2
4	Objectives of Bio informatics	2
5	Data analysis in pre clinical development	2
	TOTAL	10

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Opp: Dupadu R.S. N.H.-44,
KURNOOL-518213 (A.P.)

S. Hanumanth
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518213 (A.P.)



**DR.K.V.SUBBAREDDY INSTITUTE OF PHARMACY,DUPADU,
KURNOOL (AY:19-20)**

PHARMACEUTICAL CHEMISTRY:

S.NO	NAME OF THE STUDENT	9/10/19	10/10/19	11/10/19	12/10/19
19ER5R0001	P.BHARATH KUMAR REDDY	✓	✓	✓	✓
19ER5R0002	B.MD.DILEEP	✓	✓	✓	✓
19ER5R0003	M.MOHAMMED KALID	✓	✓	✓	✓
Faculty sign		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

COMPUTER APPLICATIONS

S.NO	NAME OF THE STUDENT	9/10/19	10/10/19	11/10/19	12/10/19
19ER5R0001	P.BHARATH KUMAR REDDY	✓	✓	✓	✓
19ER5R0002	B.MD.DILEEP	✓	✓	✓	✓
19ER5R0003	M.MOHAMMED KALID	✓	✓	✓	✓
Faculty sign		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>


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 Dr. K.V.S.R. Institute of Pharmacy
 Opp: Dupadu R.S. N.H.-44,
 KURNOOL-518218 (A.P.)

PRINCIPAL
 Dr. K.V.S.R. Institute of Pharmacy
 Opp: Dupadu R.S. N.H.-44,
 KURNOOL-518218 (A.P.)



Dr. K.V. Subba Reddy Institute of Pharmacy

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MoU with Government General Hospital & KMC, Kurnool)

Opp. Dupadu Railway Station, Lakshimpuram (Po), N.H - 44, KURNOOL - 518 218, A.P. INDIA

Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

Date:21/09/2019

DEPARTMENT OF PHARMACY (2019-2020)

CIRCULAR

All the B.Pharmacy faculty and students here by informed that the Remedial classes will be conducted for B. Pharmacy & Pharm.D students on 23/09/2019 to 28/10/2018 as per the following schedule. All the faculty & students are instructed to note the same and attend the classes as per the schedule

Copy to the faculty members

[Handwritten Signature]
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

[Handwritten signatures and initials of faculty members]

[Handwritten Signature]
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)



Dr. K.V. Subba Reddy Institute of Pharmacy

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MoU with Government General Hospital & KMC, Kurnool)

Opp. Dupadu Railway Station, Lakshmipuram (Po), N.H - 44, KURNOOL - 518 218, A.P. INDIA

Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com



Department of B. Pharmacy

Following are the students from B. pharmacy II, III & IV years I semester who need to attend remedial classes without fail.

II Year I Sem				
18ER1R0001	18ER1R0008	18ER1R0013	18ER1R0015	18ER1R0017
18ER1R0018	18ER1R0034			

III Year I Sem				
17ER1R0008	17ER1R0044	17ER1R0059	17ER1R0062	17ER1R0065
17ER1R0069	17ER1R0077			

IV Year I Sem				
16ER1R0018	16ER1R0026	16ER1R0035	16ER1R0049	16ER1R0072
16ER1R0073	16ER1R0074			


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 Dr. K.V.S.R. Institute of Pharmacy
 Opp: Dupadu R.S. N.H.-44,
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 Dr. K.V.S.R. Institute of Pharmacy
 Opp: Dupadu R.S. N.H.-44,
 KURNOOL-518218 (A.P.)

Dr. K.V.S. Subba Reddy Institute of Pharmacy

(Approved by AICTE, P.O. No. 144/2014-15, D.No. 107/14, Hyderabad, Andhra Pradesh)
MCI, 14/10/2002, P.O. No. 144/2014-15, D.No. 107/14, Hyderabad, Andhra Pradesh

Dr. K.V.S. Subba Reddy Institute of Pharmacy, P.O. No. 44, KURNOOL - 518 218, A.P. INDIA
Website: www.kvsri.ac.in

Department of B. Pharmacy

Timetable for Remedial Classes

Year & Sem: II - I

Academic Year: 2019-20

Day	Timings	Faculty	Subject	Venue	Sign
Monday	5:00PM - 6:00PM	B.V.RAMANA	PE	Room No.102	B.V.Ramana
Tuesday	5:00PM - 6:00PM	S.K.RUBINA	PP	Room No.102	S.K.Rubina

Year & Sem: III - I

Academic Year: 2019-20

Day	Timings	Faculty	Subject	Venue	Sign
Monday	5:00PM - 6:00PM	K.SARA SIRISHA	MOOCS	Room No.103	K.S.Sirisha
Tuesday	5:00PM - 6:00PM	K.CHANDRASEKHAR	MC-I	Room No.103	K.Chandrasekhara

Year & Sem: IV - I

Academic Year: 2019-20

Day	Timings	Faculty	Subject	Venue	Sign
Monday	5:00PM - 6:00PM	R.MOHANA PRIYA	PV	Room No.104	R.Mohana Priya
Tuesday	5:00PM - 6:00PM	B.LAVANYA	MC-I	Room No.104	B.Lavanya

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Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P)

S. Sarame
PRINCIPAL

Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P)

Cell : 09704 333 78



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Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

Department of B.Pharmacy

Attendance for Remedial Classes

Course Name: PE

Year: II - I

Course Faculty: B.V.RAMANA

A.Y: 2019-20

S. No.	Roll No.	23-09-2019	30-09-2019	07-10-2019	14-10-2019	21-10-2019	28-10-2019
1	18ER1R0001	X	✓	✓	✓	✓	✓
2	18ER1R0008	✓	✓	X	✓	✓	✓
3	18ER1R0013	✓	✓	✓	✓	✓	✓
4	18ER1R0015	✓	X	✓	✓	✓	✓
5	18ER1R0017	X	✓	✓	✓	✓	✓
6	18ER1R0018	✓	✓	✓	X	✓	✓
7	18ER1R0034	✓	✓	X	✓	✓	✓
Faculty Sign		BVR	BVR	BVR	BVR	BVR	BVR

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Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

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Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)



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MoU with Government General Hospital & KMC, Kurnool)

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Website : www.drkvsrp.in

e-mail : principalkvsrp@gmail.com

Department of B. Pharmacy

Attendance for Remedial Classes

Course Name: PP

Year: II - I

Course Faculty: S.K.RUBINA

A.Y: 2019-20

S. No.	Roll No.	24-09-2019	1-10-2019	08-10-2019	15-10-2019	22-10-2019	29-10-2019
1	18ER1R0001	X	✓	✓	✓	✓	✓
2	18ER1R0008	✓	✓	✓	✓	X	✓
3	18ER1R0013	✓	X	✓	✓	✓	✓
4	18ER1R0015	✓	✓	X	✓	✓	✓
5	18ER1R0017	✓	✓	✓	✓	✓	X
6	18ER1R0018	✓	✓	✓	X	✓	✓
7	18ER1R0034	X	✓	✓	✓	✓	✓
Faculty Sign		<i>S.K. Rubina</i>	<i>S.K. Rubina</i>	<i>S.K. Rubina</i>	<i>S.K. Rubina</i>	<i>S.K. Rubina</i>	<i>S.K. Rubina</i>

S.K. Rubina
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

S.K. Rubina
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)



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e-mail : principalkvsrip@gmail.com

Department of B.Pharmacy

Attendance for Remedial Classes

Course Name: MOOCS

Year: III - I

Course Faculty: K.SARA SIRISHA

A.Y: 2019-20

S. No.	Roll No.	23-09-2019	30-09-2019	07-10-2019	14-10-2019	21-10-2019	28-10-2019
1	17ER1R0008	X	✓	✓	✓	✓	✓
2	17ER1R0044	✓	X	✓	✓	✓	✓
3	17ER1R0059	✓	✓	✓	X	✓	✓
4	17ER1R0062	✓	✓	X	✓	✓	✓
5	17ER1R0065	X	✓	✓	✓	✓	✓
6	17ER1R0069	✓	✓	✓	✓	✓	X
7	17ER1R0077	X	✓	✓	✓	✓	✓
Faculty Sign							

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Website : www.drkvsrip.in e-mail : principalkvsrip@gmail.com

Department of B.Pharmacy

Attendance for Remedial Classes

Course Name: MC-1

Year: III - I

Course Faculty: K.CHANDRASEKHAR

A.Y: 2019-20

S. No.	Roll No.	24-09-2019	1-10-2019	08-10-2019	15-10-2019	22-10-2019	29-10-2019
1	17ER1R0008	X	✓	✓	✓	✓	✓
2	17ER1R0044	✓	✓	✓	✓	✓	✓
3	17ER1R0059	✓	✓	X	✓	✓	✓
4	17ER1R0062	✓	✓	✓	✓	✓	X
5	17ER1R0065	✓	X	✓	✓	✓	✓
6	17ER1R0069	✓	✓	✓	X	✓	✓
7	17ER1R0077	✓	✓	✓	X	✓	✓
Faculty Sign		✓	✓	✓	✓	✓	✓

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Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

Department of B.Pharmacy

Attendance for Remedial Classes

Course Name: PV

Year: IV- I

Course Faculty: R.MOHANA PRIYA

A.Y: 2019-20

S. No.	Roll No.	23-09-2019	30-09-2019	07-10-2019	14-10-2019	21-10-2019	28-10-2019
1	16ER1R0018	✓	X	✓	✓	✓	✓
2	16ER1R0026	✓	✓	X	✓	✓	✓
3	16ER1R0035	✓	✓	✓	✓	✓	X
4	16ER1R0049	✓	X	✓	✓	✓	✓
5	16ER1R0072	✓	X	✓	✓	✓	✓
6	16ER1R0073	✓	✓	X	✓	✓	✓
Faculty Sign		<i>R Priya</i>	<i>R Priya</i>	<i>R Priya</i>	<i>R Priya</i>	<i>R Priya</i>	<i>R Priya</i>

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Attendance for Remedial Classes

Course Name: MC

Year: IV- I

Course Faculty: B.LAVANYA

A.Y: 2019-20

S. No.	Roll No.	24-09-2019	1-10-2019	08-10-2019	15-10-2019	22-10-2019	29-10-2019
1	16ER1R0018	✓	✓	✓	✓	X	✓
2	16ER1R0026	✓	X	✓	✓	✓	✓
3	16ER1R0035	✓	✓	✓	✓	X	✓
4	16ER1R0049	X	✓	✓	✓	✓	✓
5	16ER1R0072	✓	X	✓	✓	✓	✓
6	16ER1R0073	X	✓	✓	✓	✓	✓
Faculty Sign		<i>la</i>	<i>la</i>	<i>la</i>	<i>la</i>	<i>la</i>	<i>la</i>

la
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Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

Department of Pharm.D

Timetable for Remedial Classes

Year & Sem: II

Academic Year: 2019-20

Day	Timings	Faculty	Subject	Venue	Sign
Monday	5:00PM - 6:00PM	Dr.K.VENNELA	PT	Room No.102	<i>[Signature]</i>
Tuesday	5:00PM - 6:00PM	R.JONA METHUSALA	P.COL	Room No.102	<i>[Signature]</i>

Year & Sem: III

Academic Year: 2019-20

Day	Timings	Faculty	Subject	Venue	Sign
Monday	5:00PM - 6:00PM	R.MOHANA PRIYA	MC-1	Room No.103	<i>[Signature]</i>
Tuesday	5:00PM - 6:00PM	DR.S.KUSUMA KUMARI	PT	Room No.103	<i>[Signature]</i>

Year & Sem: IV

Academic Year: 2019-20

Day	Timings	Faculty	Subject	Venue	Sign
Monday	5:00PM - 6:00PM	Dr.C.H.NAVEEN KUMAR	BS	Room No.104	<i>[Signature]</i>
Tuesday	5:00PM - 6:00PM	B.V.RAMANA	BPPK	Room No.104	<i>[Signature]</i>

[Signature]
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Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

Department of Pharm.D

Following are the students from PHARM.D II, III & IV years semester who need to attend remedial classes without fail.

II Year				
18ER1T0003	18ER1T0014	18ER1T0019	18ER1T0027	

III Year				
17ER1T0018	17ER1T0023	17ER1T0025	17ER1T0026	

IV Year				
16ER1T0016	16ER1T0023	16ER1T0027	16ER1T0030	

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KURNOOL-518218 (A.P.)

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KURNOOL-518218 (A.P.)



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MoU with Government General Hospital & KMC, Kurnool)

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Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

Department of Pharm.D

Attendance for Remedial Classes

Course Name: PHARMACOLOGY


Year: II

Course Faculty: R.JONA METHUSALA

A.Y: 2019-20

S. No.	Roll No.	21-09-2019	28-09-2019	05-10-2019	12-10-2019	19-10-2019	26-10-2019
1	18ER1T0003	✓	✓	X	✓	✓	✓
2	18ER1T 0014	X	✓	✓	✓	✓	✓
3	18ER1T 0019	✓	✓	X	✓	✓	✓
4	18ER1T 0027	✓	X	✓	✓	✓	✓
Faculty Sign		RM	RM	RM	RM	RM	RM


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Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

Department of Pharm.D

Attendance for Remedial Classes

Course Name: PT

Year: II

Course Faculty: Dr.K.VENNELA

A.Y: 2019-20

S. No.	Roll No.	21-09-2019	28-09-2019	05-10-2019	12-10-2019	19-10-2019	26-10-2019
1	18ER1T0003	✓	X	✓	✓	✓	✓
2	18ER1T 0014	✓	✓	✓	✓	✓	X
3	18ER1T 0019	X	✓	✓	✓	✓	✓
4	18ER1T 0027	✓	✓	✓	✓	✓	✓
Faculty Sign							

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Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

Department of Pharm.D

Attendance for Remedial Classes

Course Name: MC-1

Year: III

Course Faculty: R.MOHANA PRIYA

A.Y: 2019-20

S. No.	Roll No.	21-09-2019	28-09-2019	05-10-2019	12-10-2019	19-10-2019	26-10-2019
1	17ER1T 0018	✓	X	✓	✓	✓	✓
2	17ER1T 0023	✓	✓	✓	✓	✓	X
3	17ER1T 0025	✓	X	✓	✓	✓	✓
4	17ER1T 0026	✓	✓	✓	✓	X	✓
Faculty Sign		<i>MP</i>	<i>MP</i>	<i>MP</i>	<i>MP</i>	<i>MP</i>	<i>MP</i>

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PRINCIPAL
 Opp: Dupadu R.S. N.H.-44,
 KURNOOL-518218 (A.P.)

R. Mohana
PRINCIPAL
 Dr. K.V.S.R. Institute of Pharmacy
 Opp: Dupadu R.S. N.H.-44,
 KURNOOL-518218 (A.P.)



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Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

Department of Pharm.D

Attendance for Remedial Classes

Course Name: PT-II

Year: III

Course Faculty: DR.S.KUSUMA KUMARI

A.Y: 2019-20

S. No.	Roll No.	21-09-2019	28-09-2019	05-10-2019	12-10-2019	19-10-2019	26-10-2019
1	17ER1T 0018	✓	✓	X	✓	✓	✓
2	17ER1T 0023	✓	✓	X	✓	✓	✓
3	17ER1T 0025	✓	X	✓	✓	✓	✓
4	17ER1T 0026	✓	✓	✓	✓	✓	X
Faculty Sign		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

[Signature]
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44
KURNOOL-518218 (A.P.)
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[Signature]
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Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

Department of Pharm.D

Attendance for Remedial Classes

Course Name: BS

Year: IV

Course Faculty: Dr.C.H.NAVEEN KUMAR

A.Y: 2019-20

S. No.	Roll No.	21-09-2019	28-09-2019	05-10-2019	12-10-2019	19-10-2019	26-10-2019
1	16ER1T0016	X	✓	✓	✓	✓	✓
2	16ER1T0023	✓	✓	✓	X	✓	✓
3	16ER1T0027	✓	X	✓	✓	✓	✓
4	16ER1T0030	✓	✓	✓	✓	✓	✓
Faculty Sign		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

[Signature]
PRINCIPAL
 Dr. K.V.S.R. Institute of Pharmacy
 Opp: Dupadu R.S. N.H.-44,
 KURNOOL-518218 (A.P.)

Subramana
PRINCIPAL
 Dr. K.V.S.R. Institute of Pharmacy
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Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

Department of Pharm.D

Attendance for Remedial Classes

Course Name: BPPK

Year: IV

Course Faculty: B.V.RAMANA

A.Y: 2019-20

S. No.	Roll No.	21-09-2019	28-09-2019	05-10-2019	12-10-2019	19-10-2019	26-10-2019
1	16ER1T0016	✓	✓	✓	✓	✓	✓
2	16ER1T0023	✓	X	✓	✓	✓	✓
3	16ER1T0027	X	✓	✓	✓	✓	✓
4	16ER1T0030	✓	✓	X	✓	✓	✓
Faculty Sign		<i>BVR</i>	<i>BVR</i>	<i>BVR</i>	<i>BVR</i>	<i>BVR</i>	<i>BVR</i>

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Opp: Dupadu R.S. N.H.-44
KURNOOL-518218 (A.P.)

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Department of Pharmacy

Laboratory Sessions

Branch: B.Pharmacy

Regulation: R15



Fig1.1 T.S of crude drug in pharmacognosy laboratory

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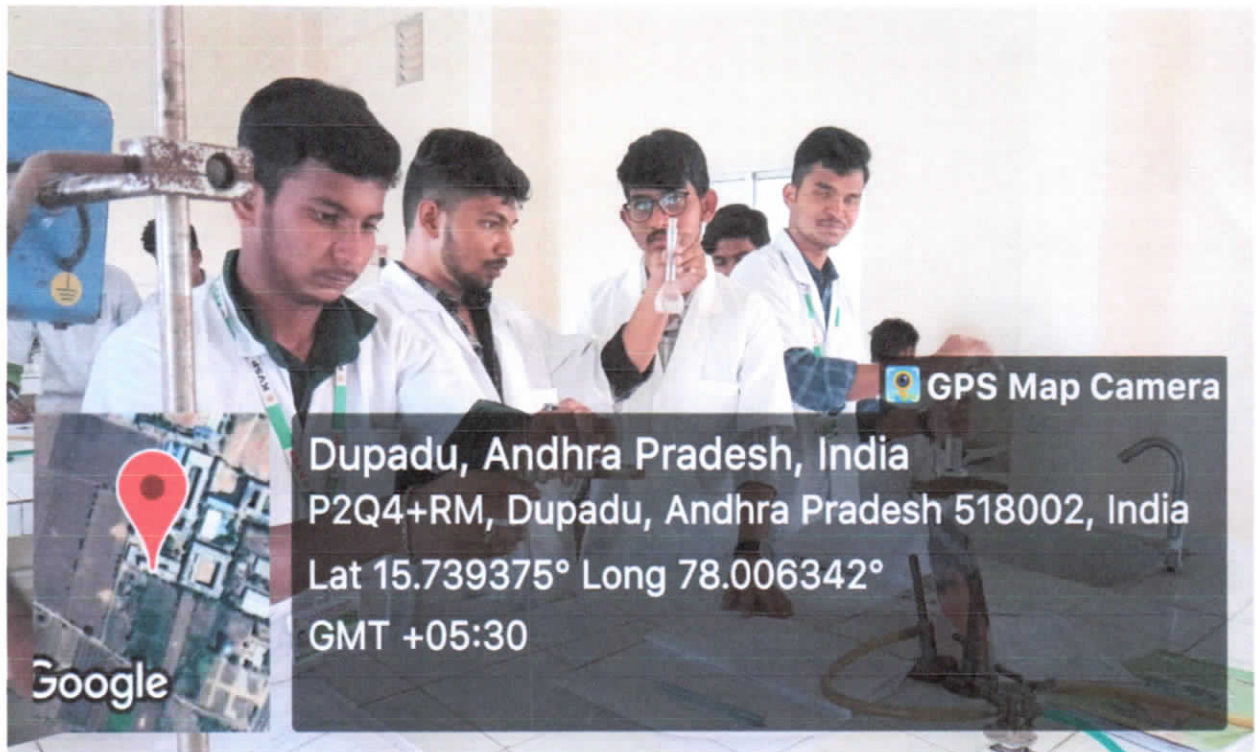


Fig 1.2 Experimental lab on limit test in Pharmaceutical Inorganic Chemistry lab

S. Damana
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Department of Pharmacy

Laboratory Sessions

Branch:Pharm.D

Regulation: R15

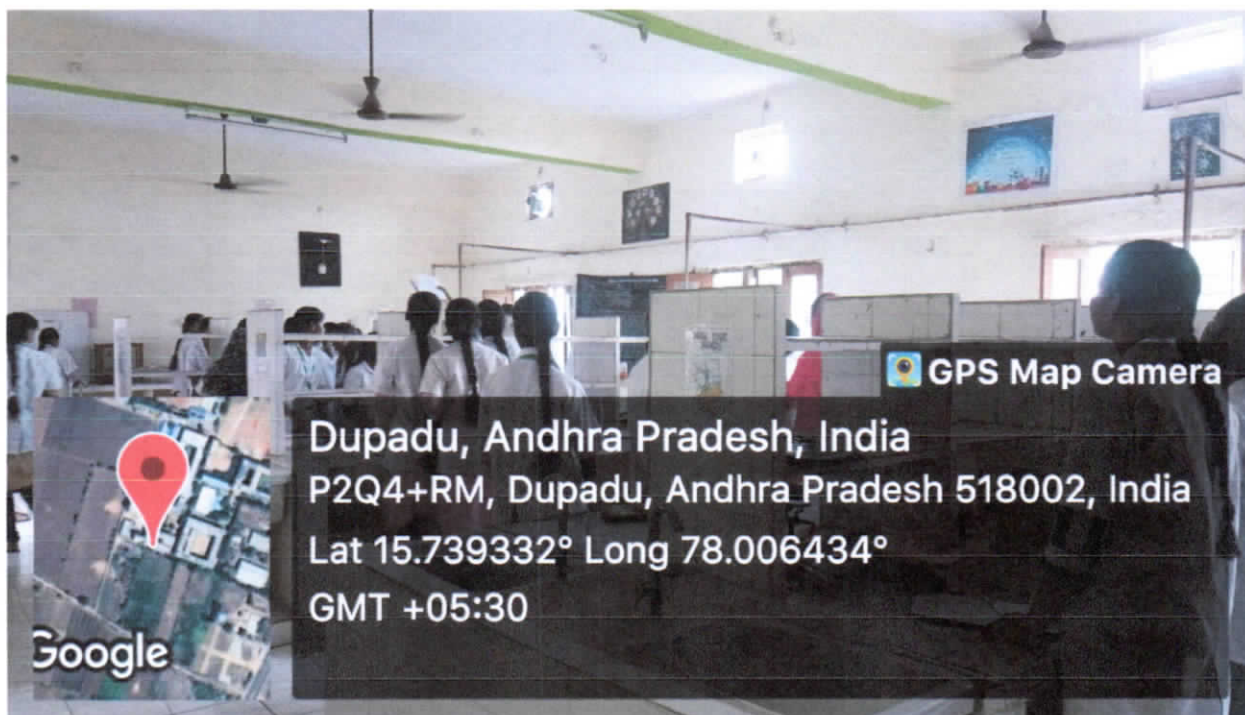


Fig 1.3 Experimental lab in Microbiology laboratory

S. Venana
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
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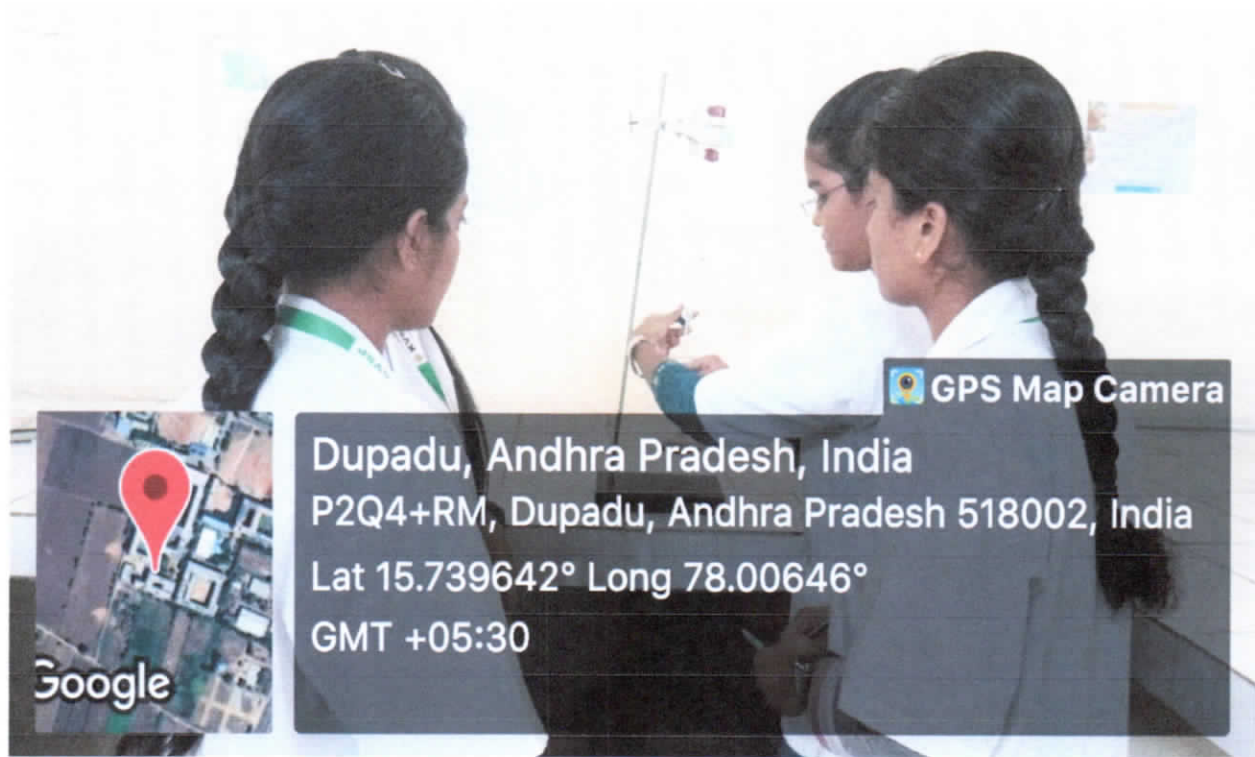


Fig 1.4 Experimental lab in Pharmaceutical Analysis laboratory

M. Srinivas

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PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. NH-17,
KURNOOL-518210 (A.P.)



PharmaQuiz

The Department of Pharmacy has conducted a **Pharma Quiz Competition** in the college auditorium on 02nd Sep 2019 under Pharmacy students Chapter in which four different teams with five participants in each group gave tough battle to each other. Principal of the college Dr.B.V.Ramana Garu presented mementos to the winners.



Fig 1: Presenting Mementos to the winners by Principal

B. Venkatesh
PRINCIPAL

PRINCIPAL

Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)



Department of Pharmacy

Think Pair Share Session

AY: 2019-20

Think-Pair-Share (TPS) is a cooperative learning activity that can work in varied size classrooms and in any subject. Instructors pose a question, students first THINK to themselves prior to being instructed to discuss their response with a person sitting near them (PAIR).

In other words, Think-pair-share (TPS) is a collaborative learning strategy where students work together to solve a problem or answer a question about an assigned reading. This strategy requires students to (1) think individually about a topic or answer to a question; and (2) share ideas with classmates. Discussing with a partner maximizes participation, focuses attention and engages students in comprehending the reading material.

- It helps students to think individually about a topic or answer to a question.
- It teaches students to share ideas with classmates and builds oral communication skills.
- It helps focus attention and engage students in comprehending the reading material.



Fig.1: Students during a Think Pair Share Session

Batch of 65 Pharmacy students attended the session conducted on 20/1/2020.

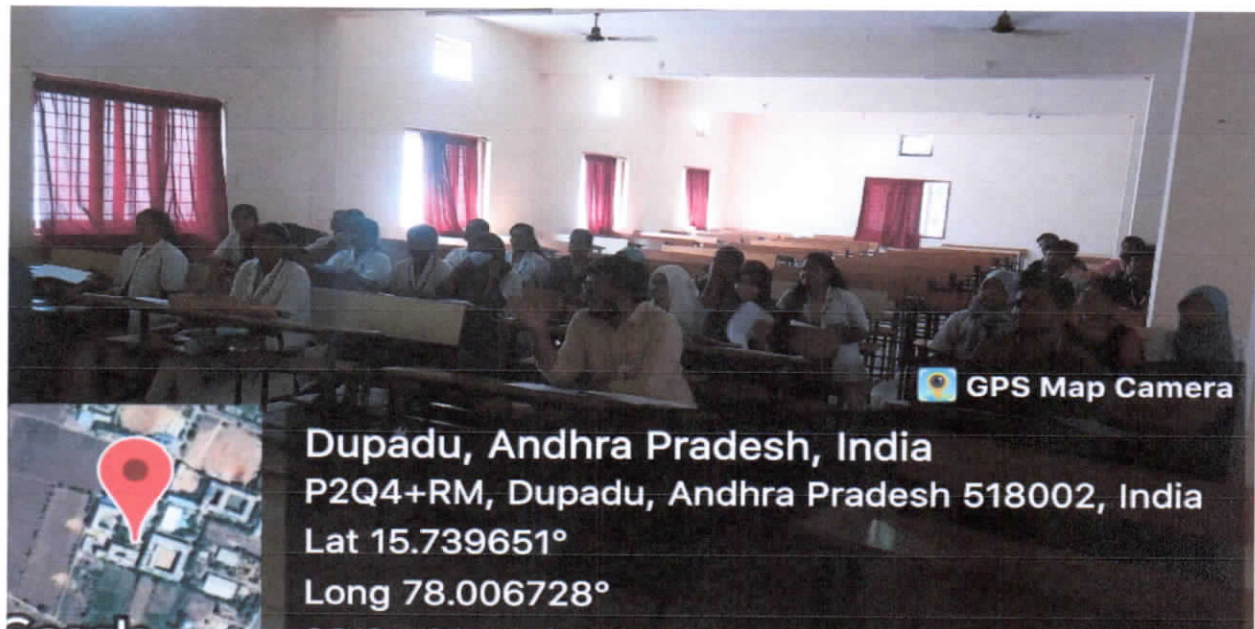
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Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P)



CLUB ACTIVITIES:

This club activities is organized by students as well as faculty members is to promote & enhance activity in educational institution .this kind of activities empower the students analytical interpretation skills. It provide familiarize members with emerging trends in the field of pharmacy. It provide environment for learning inter disciplinary academic research.



S. Venema
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)^{CV}



Dr. K. V. SUBBA REDDY INSTITUTE OF PHARMACY
(Approved by AICTE & PCI New Delhi, Permanent Affiliated to JNTU Anantapur, Anantapuramu,
MoU with Government General Hospital, KMC, Kurnool)
Opp: Dupadu RS, N.H-44, Lakshmipuram (Post), Kurnool-518218
E-mail: principalkvsrip@gmail.com
Cell: +919440282181, +919704333789 Fax: 08518-287618

DATE:07/12/2019

DEPARTMENT OF PHARMACY (2019-2020)

CIRCULAR

All the faculty and students here by informed that Work Shop on Training on EX-Pharma Software will be conducted for III- & IV-year B. pharmacy students on 09/12/2019 to 10/12/2019 as per the following schedule. All the faculty & students are instructed to note the same and attend the classes as per the schedule.

PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)

Copy to faculty members

[Handwritten signatures and initials of faculty members]

PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44
KURNOOL-518218 (A.P.)



Dr. K.V. Subba Reddy Institute of Pharmacy

(Approved by AICTE, P.C.I New Delhi & Affiliated to JNTUA Anantapuramu,
MoU with Government General Hospital & KMC, Kurnool)

Opp. Dupadu Railway Station, Lakshmpuram (Po), N.H - 44, KURNOOL - 518 218, A.P. INDIA.

Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

PROBLEM SOLVING METHODS

Dr.K.V.Subba Reddy institute of pharmacy conducted Three days training on **EX-PHARMA SOFT WARE** for B.Pharmacy II& III Year students on **09/12/2019 to 11/12/2019**. This presentation accounts for handling ,caring ,feeding ,common infections ,different routes of injection & disposal of laboratory animals. This workshop is very helpful to acquire knowledge, conceptual understanding, and skills to solve problems and make informed decision in scientific context. This is a computer assisted learning (CAL) software containing various programs which simulate animal experiments in Pharmacology. These programs can be used to demonstrate effect of drugs on different animals systems. The package is user friendly, highly interactive and full of animated sequences which make simulation appear realistic. The current version of Experimental Pharmacology (Ex-Pharm) Series Software consists of following computer simulated experiments: Eminent **speaker R.JONA METHUSALA** sir ,M. Pharmacy, Associate professor Department of Pharmacology.

S. K. Manu
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P)



Dr. K.V. SUBBA REDDY INSTITUTE OF PHARMACY

NH-44, Opp Dupadu Railway Station, Kurnool-518218 (A.P) India

Department of Pharmacy

Training on Ex pharma software

Date : 09-12-2019 to 11-12-2019



email principalkvsrip@gmail.com
Contact : 9440282181, 9177287508

Welcome to Resource Person
R.JONA METHUSALA
Associate Professor

Smt. S. Vijayalakshamma
Secretary & Correspondent

Dr. G.Nagarajan
Principal



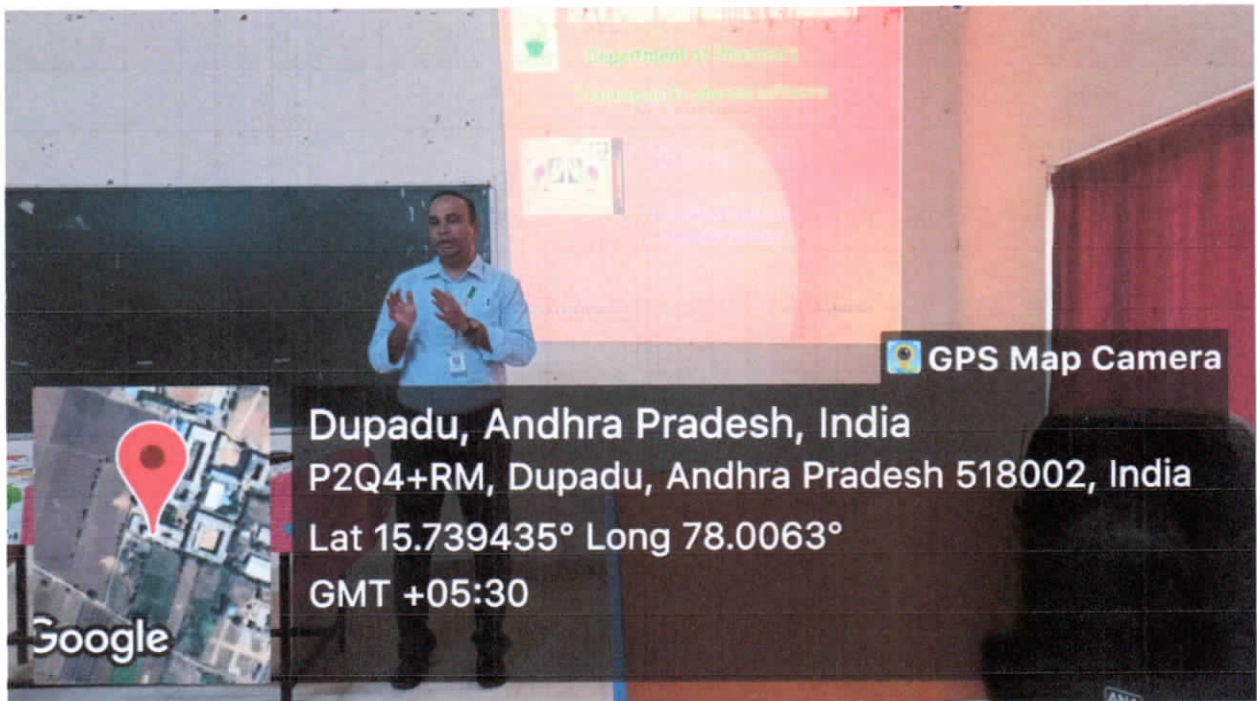
GPS Map Camera



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GMT +05:30

Google

G. Nagarajan
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P)



GPS Map Camera

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GPS Map Camera

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GMT +05:30

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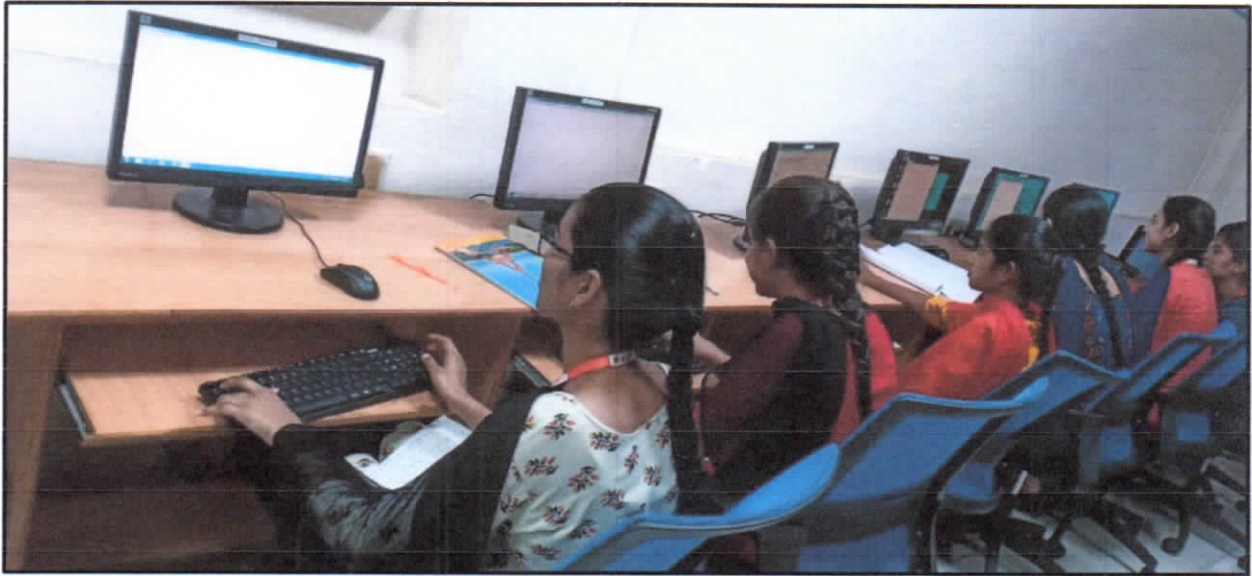
S. Kumar
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P.)
KURNOOL-51

VIRTUAL LABS

Virtual labs are used to provide remote access to stimulation based labs in various disciplines of sciences and pharmacy departments. By using these virtual labs to enthruse students to conduct experiments by arousing their curiosity. This would help them in learning basic & advanced concepts through remote experimentation. This would help them to provide complete learning management system around the virtual labs where the students/ teachers can avail the various tools for learning, including additional web resources ,video lectures, animated demonstrations and self examinations.



S. Venkatesh
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P)



B.Pharmacy III Year students participative learning in pharmacology laboratory



S. Kameswari
PRINCIPAL
Dr. K.V.S.R. Institute of Pharmacy
Opp: Dupadu R.S. N.H.-44,
KURNOOL-518218 (A.P)