



AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

(Approved by AICTE, PCI, Recognized by the Govt. of A.P. & Affiliated to J.N.T.U.K, Kakinada)

Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram -531162.

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2.3.1. Student centric methods such as experiential learning, participative learning and Problem-solving methodologies are used for enhancing learning experiences and teachers use ICT enabled tools including online resources for effective teaching and learning process.

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Principal

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Avanthi Institute of Pharmaceutical Science
Cherukupally (V), Bhogapuram Manda
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2.3.1. Student centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences and teachers use ICT enabled tools including online resources for effective teaching and learning process.

Student-centric methods in education prioritize the individual needs, interests, and learning styles of students, aiming to create a more personalized and engaging learning experience. Unlike traditional teacher-centric approaches, where the teacher is the primary source of knowledge and control, student-centric methods shift the focus to the learners themselves. These methods often involve active participation, collaboration, and hands-on activities to foster a deeper understanding of the subject matter. Tailoring instruction to students' abilities and interests helps to enhance their motivation.

- 1. Experiential Learning**
- 2. Participation Learning**
- 3. Problem-Solving Methodologies**


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Experiential Learning:

Experiential learning is an educational approach that emphasizes hands-on, real-world experiences as a primary method of learning. Unlike traditional classroom settings that rely heavily on lectures and theoretical instruction, experiential learning places students in direct contact with the subject matter, allowing them to actively engage with concepts and apply knowledge in practical scenarios. This method is rooted in the idea that individuals learn best through direct experience, as it promotes critical thinking, problem-solving skills, and a deeper understanding of the subject matter. Experiential learning can take various forms, including internships, field trips, simulations, group projects, and other activities that immerse learners in authentic situations, fostering a more meaningful and lasting comprehension of the material.

1.1 Open Ended Experiments

1.2 Working Models

1.3 Simulation Software Experiments

1.4 Internships




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1.1 Open Ended Experiment (OEE):

Open-ended methods refer to instructional approaches and assessments that allow for a variety of possible responses, interpretations, and outcomes, fostering creativity, critical thinking, and independent problem-solving skills. In contrast to closed-ended methods, which typically have a single correct answer or a limited set of predetermined outcomes, open-ended methods encourage learners to explore and express their ideas in diverse ways. These approaches are particularly effective in promoting a deeper understanding of concepts and engaging learners at various cognitive levels, as they require individuals to think beyond rote memorization and apply knowledge in novel and meaningful contexts.



Inorganic Lab Performed by I B Pharm students

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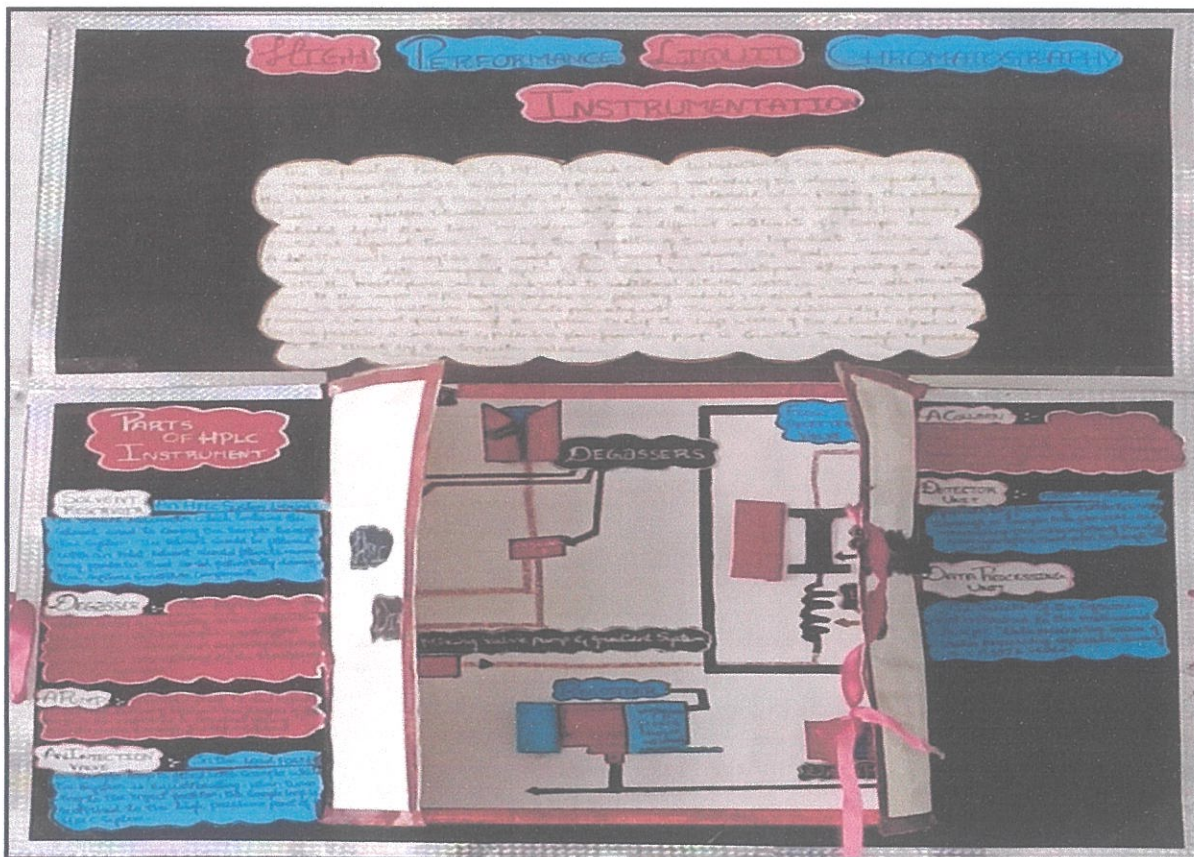
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1.2 Working Models:

A working model refers to a physical, conceptual, or visual representation that is designed to demonstrate the functionality or principles of a particular system, process, or concept. It serves as a visible and often interactive tool that allows individuals, such as students, or researchers, to better understand and observe the inner workings of a complex idea or mechanism. Working models are commonly used in various fields, including pharmacy, medical and other education, and product development, as they provide a hands-on approach to learning and problem-solving.



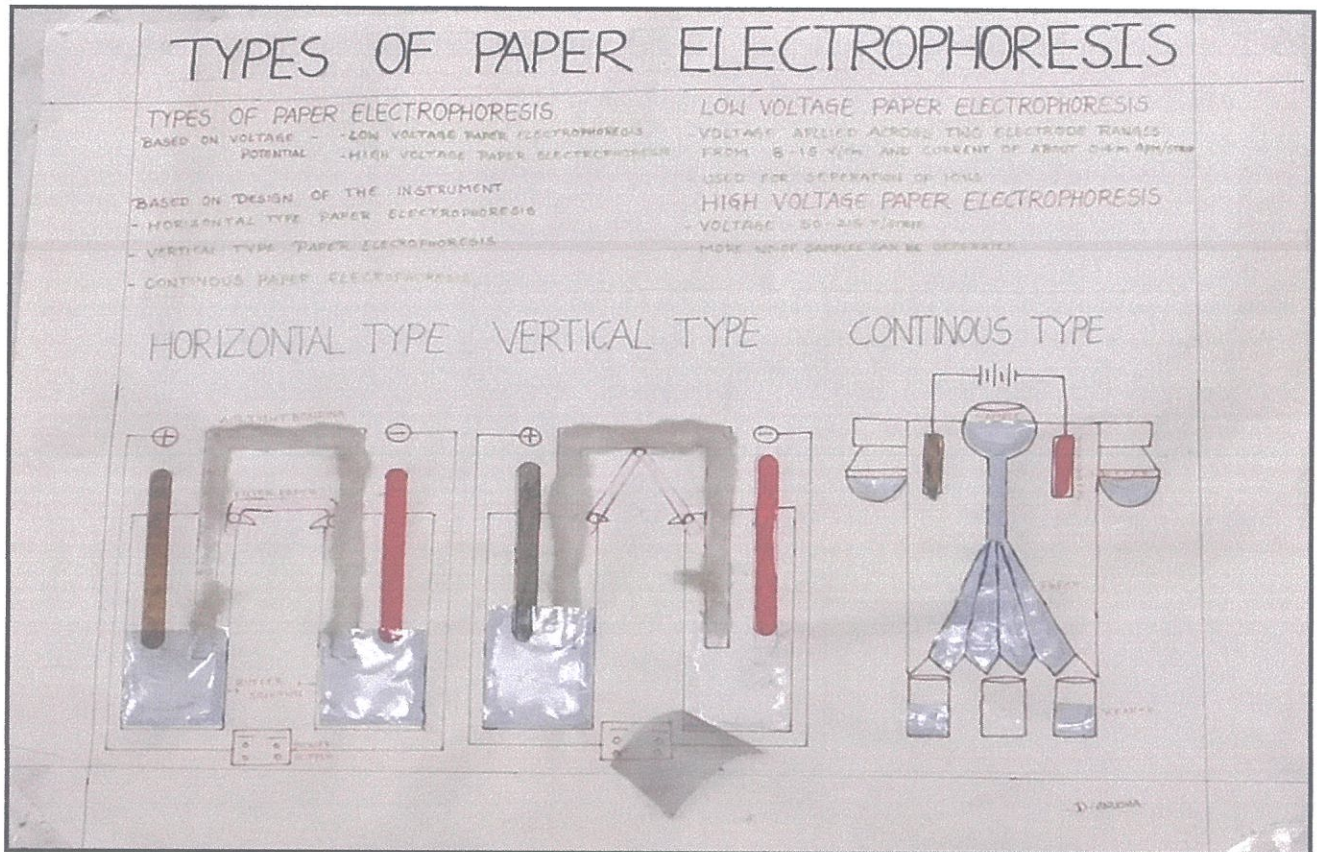
High performance liquid chromatography prepared by IV B.Pharm Students



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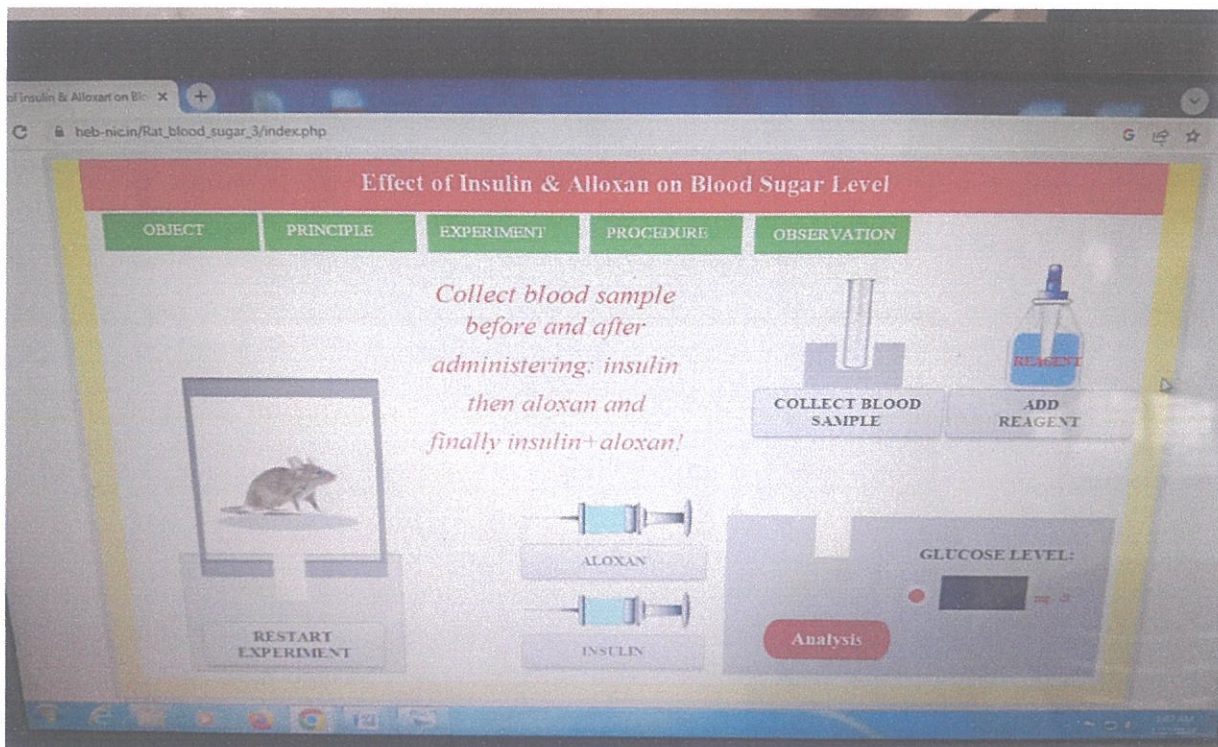
Types of electrophoresis prepared by IV B.Pharm Students



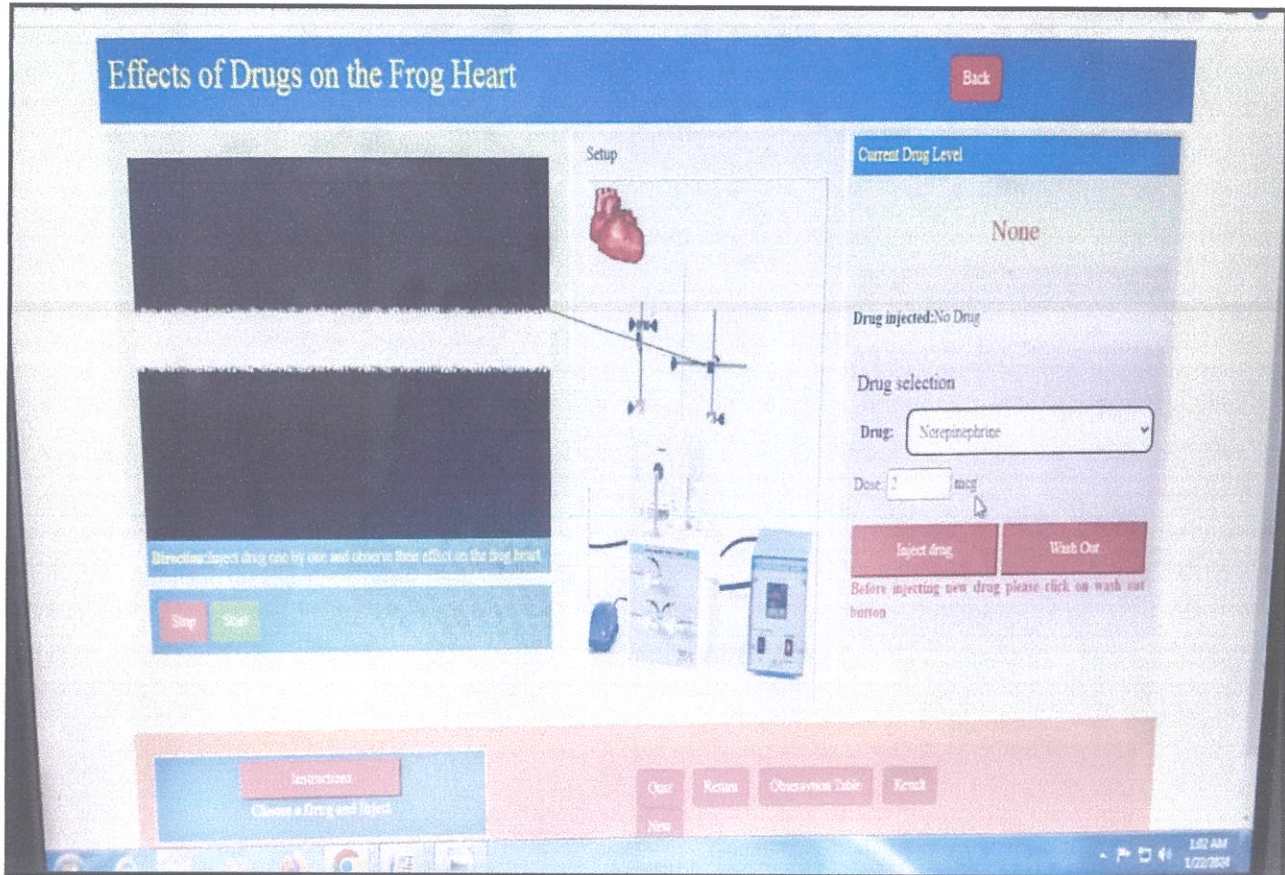
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1.3. Simulation Software Experiments

Simulation software is a computer program designed to replicate the behavior of a real-world system, process, or phenomenon. It allows users to model and analyze the dynamics of complex systems in a virtual environment. This type of software is widely used across various fields, including pharmacy, science, business, and healthcare, to simulate and study scenarios that may be expensive, time-consuming, or impractical to replicate in the physical world. Simulation software typically involves creating scientific models that represent the key components and interactions within the system. Users can then manipulate variables, run simulations, and observe the outcomes, providing valuable insights, testing hypotheses, and making informed decisions without the need for physical experimentation. This technology is crucial for training, optimization, and analysis, offering a cost-effective and efficient means of understanding and improving real-world processes.



Effect of Insulin & Alloxan on Blood Sugar level in Ex –Pharma Software



Effect of different Drugs on Frog Heart by virtual labs




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1.4. Internships:

Interns in the Pharma D program may engage in a wide range of activities, including dispensing medications, counseling patients on proper medication use, collaborating with healthcare teams, and participating in medication management services. They may also have the opportunity to observe and contribute to pharmaceutical research, clinical trials, and drug development processes. Pharma D internships provide a holistic learning experience, preparing students for the dynamic and multifaceted role of a pharmacist in diverse healthcare settings. This exposure to the practical aspects of the pharmaceutical field not only enhances their clinical competencies but also helps them make informed decisions about their future career paths within the pharmaceutical and healthcare sectors.




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Web : www.avanthipharma. ac in. E-mail : principalavanthit5@gmail.com
principal_t5@rediffmail.com

From:

Dr.M.B.V.Raju

M.Pharm,Ph.D

PRINCIPAL

CERTIFICATE OF INTERNSHIP

(Doctor of Pharmacy (Pharm-D) Program)

This is to certify that Ms **VENUTHURUPALLI ATCHUTA LAKSHMI REETHIKA** Regd No.15T51T0025 of Avanathi Institute of Pharmaceutical Sciences from 2015-2021 pursuing **Doctor of Pharmacy (Pharm-D)** course .She has successfully completed the Internship at the **Maharaja Institute of Medical Sciences, Vizianagaram** in the following Units/Departments as prescribed under regulation 16 and Appendix C of Pharm-D Regulations 2008 of Pharmacy Council of India ,New Delhi.

Department	Date		Total Duration (in months)
	From	To	
General Medicine	01-11-2020	30-04-2021	6
Pediatrics	01-05-2021	30-06-2021	2
Gynecology	01-07-2021	31-08-2021	2
Dermatology	01-09-2021	31-10-2021	2

Preceptor

Avanathi Institute of Pharmaceutical Sciences

Cherukupally (V), Bhogapuram (M)
Vizianagaram (Dist.)-531 162

Seal of the Institution

Head of the Institution

Avanathi Inst. of Pharmaceutical Sciences
Cherukupally (V), Bhogapuram (M)
Vizianagaram (Dist.)-531 162

Station:Cherukupally

Date: 5/11/21



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Web : www.avanthipharma. ac in. E-mail : principalavanthit5@gmail.com
principal_t5@rediffmail.com

From:

Dr.M.B.V.Raju

M.Pharm,Ph.D

PRINCIPAL

CERTIFICATE OF INTERNSHIP

(Doctor of Pharmacy (Pharm-D) Program)

This is to certify that Ms **SIDDILA APARNA RANI** Regd No.15T51T0023 of Avanthi Institute of Pharmaceutical Sciences from **2015-2021** pursuing Doctor of Pharmacy (Pharm-D) course .She has successfully completed the Internship at the **Maharaja Institute of Medical Sciences,Vizianagaram** in the following Units/Departments as prescribed under regulation 16 and Appendix C of Pharm-D Regulations 2008 of Pharmacy Council of India ,New Delhi.

Department	Date		Total Duration (in months)
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Gynecology	01-07-2021	31-08-2021	2
Dermatology	01-09-2021	31-10-2021	2

Preceptor

Head of the Institution

Seal of the Institution

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Vizianagaram (Dist.)-531 162

Station:Cherukupally

Date: 5/11/21



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2.1.2 Participative learning:

Participative learning is an instructional approach that actively involves students in the learning process, encouraging their active engagement, collaboration, and contribution to the educational experience. In contrast to traditional teacher-centered methods, participative learning fosters a more dynamic and interactive classroom environment where students take an active role in discussions, problem-solving, and various learning activities. This approach aims to cultivate critical thinking skills, communication abilities, and a sense of ownership over one's education. Through group discussions, collaborative projects, and hands-on activities, participative learning promotes a deeper understanding of concepts, enhances interpersonal skills, and prepares students for the challenges of the real world by emphasizing the importance of shared knowledge and diverse perspectives.



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2.1 Hospital posting:

A hospital posting for Pharma D students typically involves a structured clinical rotation or internship within a hospital setting. During this posting, Pharma D students gain practical experience in various aspects of pharmacy practice, including patient care, medication management, and healthcare team collaboration. They may work under the supervision of licensed pharmacists and other healthcare professionals to provide pharmaceutical services to patients. Responsibilities may include medication dispensing, counseling patients on proper medication usage, monitoring drug therapy outcomes, and participating in clinical rounds or multidisciplinary healthcare teams. This hands-on experience in a hospital setting allows Pharma D students to apply their theoretical knowledge, develop clinical skills, and understand the challenges and working in a healthcare environment. It also provides an opportunity for them to contribute to patient care and gain insights into the broader health care system.



Case Collection during Ward Round Participation by IV Pharm. D Student




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2.2 Industrial Training:

Industrial training for B Pharmacy students is a vital component of their education, offering practical exposure to pharmaceutical industry operations and practices. During this training, students typically work within pharmaceutical companies, manufacturing units, or research and development facilities to gain hands-on experience in drug production, quality control, and regulatory compliance. B Pharmacy students engage in various activities such as formulation development, quality assurance procedures, and adherence to Good Manufacturing Practices (GMP). This industrial exposure not only supplements theoretical knowledge with real-world applications but also enhances skills in areas like pharmaceutical analysis, production processes, and research methodologies. Additionally, it provides valuable insights into the pharmaceutical industry's dynamics, fostering a better understanding of the challenges and advancements within the field, thereby preparing students for future roles in the pharmaceutical sector.

List of Students Underwent Industrial Training

S.No	Student Name	Roll No.	Training Duration	Industry Name
1	U.Vasanth	17T51R0081	01-10-2020-31-10-2020	STARTECH LABS
2	B.Samyuktha	17T51R0015	01-10-2020-31-10-2020	STARTECH LABS
3	K.Hari Chandana	17T51R0032	01-10-2020-31-10-2020	STARTECH LABS
4	V.Manohar	17T51R0081	01-10-2020-31-10-2020	STARTECH LABS
5	S.Swathi	17T51R0017	01-10-2020-31-10-2020	STARTECH LABS



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STARTTECH LABS PRIVATE LIMITED

2nd Floor, SMR Chambers, 1-58/7, Madinaguda, Hyderabad - 500 050, Telangana, INDIA.

Ph. No.: +91-40-2304 1900, Mobile : 9700971895
E-mail: training@s.startechlabs.com, Web: www.startechlabs.com

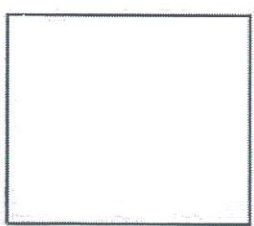
Sl. No.: AIPs/15/20



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QUALITY SERVICE IS OUR STRENGTH

Certificate of Training



This is to certify that Mr. / Ms. Kaliseti Hasi Chandana
has successfully completed the "Industrial Training Programme"

from 01.10.2020



to 31.10.2020

Place: Hyderabad

Date: 31.10.2020

For Startech Labs Pvt. Ltd.

Kamari Reddy

PRINCIPAL / Authorised Signatory



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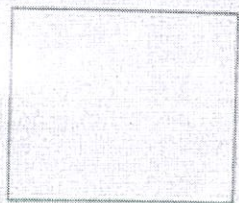
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E-mail: training@startechlabs.com, Web: www.startechlabs.com

CR. No. AIPS / 46 / 20

Certificate of Training



This is to certify that Mr. / Ms. Vemela. Manohar

has successfully completed the "Industrial Training Programme"

from 01.10.2020

to

31.10.2020

Place: Hyderabad

Date: 31.10.2020

For Startech Labs Pvt. Ltd.

Dr. Ramani Reddy
Authorized Signatory




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Ph. No.: +91-40-2304 1900, Mobile : 9700971895
E-mail: training@startechlabs.com, Web: www.startechlabs.com

ALPS/21/20

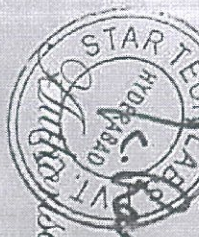
Certificate of Training

This is to certify that Mr./Ms. Kesaramsetty V. Sai. Apparna has successfully completed the Industrial Training Programme

from 01.10.2020 to 31.10.2020

For StarTech Labs Pvt. Ltd.

S. Kamini Reddy
Authorized Signatory



Place : Hyderabad

Date : 31.10.2020



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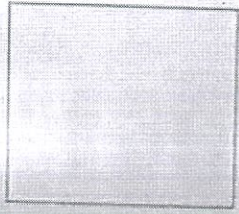
Sl. No. APS/34/20



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Certificate of Training



This is to certify that Mr. M. Upada Vasantha

has successfully completed the "Industrial Training Programme"

from 01.10.2020

to

31.10.2020

Place: Hyderabad

Date: 31.10.2020

For Startech Labs Pvt. Ltd.


Ramaji Reddy
Authorized Signatory




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2.3 E-Resources

List of open source and authorized software support for advanced learning

S.NO	NAME OF THE SOFTWARE	ONLINE ACCESSIBILITY
1	DELNET	389
2	SOUTH ASIAN	12
3	NDLI(National digital library of India)	32
TOTAL		433

E-Books list

PHARMACY BOOKS

Health, Mind & Body

S.No	Name of The Subject	No Of Volumes
1	Diet & Weight loss	6
2	Disorders and Diseases	7
3	Fitness	7
4	Mental Health	14
5	Psychology & Counselling	12
6	Relationships	10
7	Self Improvements	11
8	Self Help	24
9	Personal Health	14
10	Safety & First	6




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Access E-Journals

S.NO	Name of the journal
1	Alimentary pharmacology and therapeutics
2	Alternative & integrative medicine
3	American journal of Ethnomedicine
4	Antioxidants
5	Arabian journal of Medicine and Aromatic plants
6	Biochemistry and Pharmacology
7	Bioelectronic Medicine
8	Bioceramics and Applications
9	Bioengineering
10	Biomedicine Dermatology
11	Cancer Nanotechnology
12	Cellular and Molecular Pharmacology
13	Chronic Obstructive Pulmonary Disease: journal of COPD foundation
14	Drug Design and Development Therapy
15	European Medical Journal Gastroenterology




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2.4 Webinars:

Webinars have played a crucial role in pharmacy education during the pandemic, providing an effective and adaptable platform for continued learning and professional development. With traditional in-person classes disrupted, webinars have allowed pharmacy educators to seamlessly transition to remote teaching, ensuring that students can still access high-quality education despite the challenges posed by the pandemic.

S. No	Title of The Programme	Date	Name of The Resource Person	Faculty Coordinator	Number of Students Attended
1	How to make documentation by using software's in quality assurance department in pharmaceutical industry	11-12-2020	D. Tirumalesh Aurobindo pharma pvt.ltd	Y.V.Vandhana M.Pharm(PhD)	79
2	How to use Micromedex to collect clinical information of drugs	29-01-2021	Dr.B.Prathyusha Viswanadha college of pharmacy	A.Nanaji M.pharm	54
3	Session On Ex Pharma Software	08-07-2020	M.vidya sagar Google analyst	B . Chaitanya M.Pharm(PhD)	40
4	Session on clinical research of pharmacovigilance	17-11-2020	C.S.Mujeebuddi Founder and CEO Clinisol research private limited	V.C.Randeep Raj Pharm.D	156
5	Session on how to use animal simulator in pharmacology	29-01-2021	M.Madhavi kumari M.Pharm(PhD) AIPS	.H.V.Santhoshi M.Pharm(PhD)	179

Webinars conducted in AIPS During 2020-2021




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2.5 Soft skills Training program:

Soft skill development programs in the pharmacy field offer numerous advantages, contributing to the well-rounded and effective professional development of pharmacists. These skills, often referred to as interpersonal or people skills, complement the technical knowledge acquired during academic training and enhance overall job performance. One significant advantage is improved communication skills. Pharmacists with strong soft skills can effectively communicate with patients, colleagues, and other healthcare professionals, facilitating better patient care, medication adherence, and collaboration within the healthcare team.

Training program name : Importance of time management, stress management and decision making skills

Resource Person Details : K. Chandra Sekhar, M.A (English)
Associate Professor of English
Campus Recruitment Training
Avanathi Institute of Engineering & Technology,
Vizianagaram

Duration of training : 05/10/2022 to 10/10/2020

Faculty co-ordinator : Y. V. Vandhana
9704922789
9346668519

No of participants : 77

Link to join in link : <https://meet.google.com/swy-skiz-pon>




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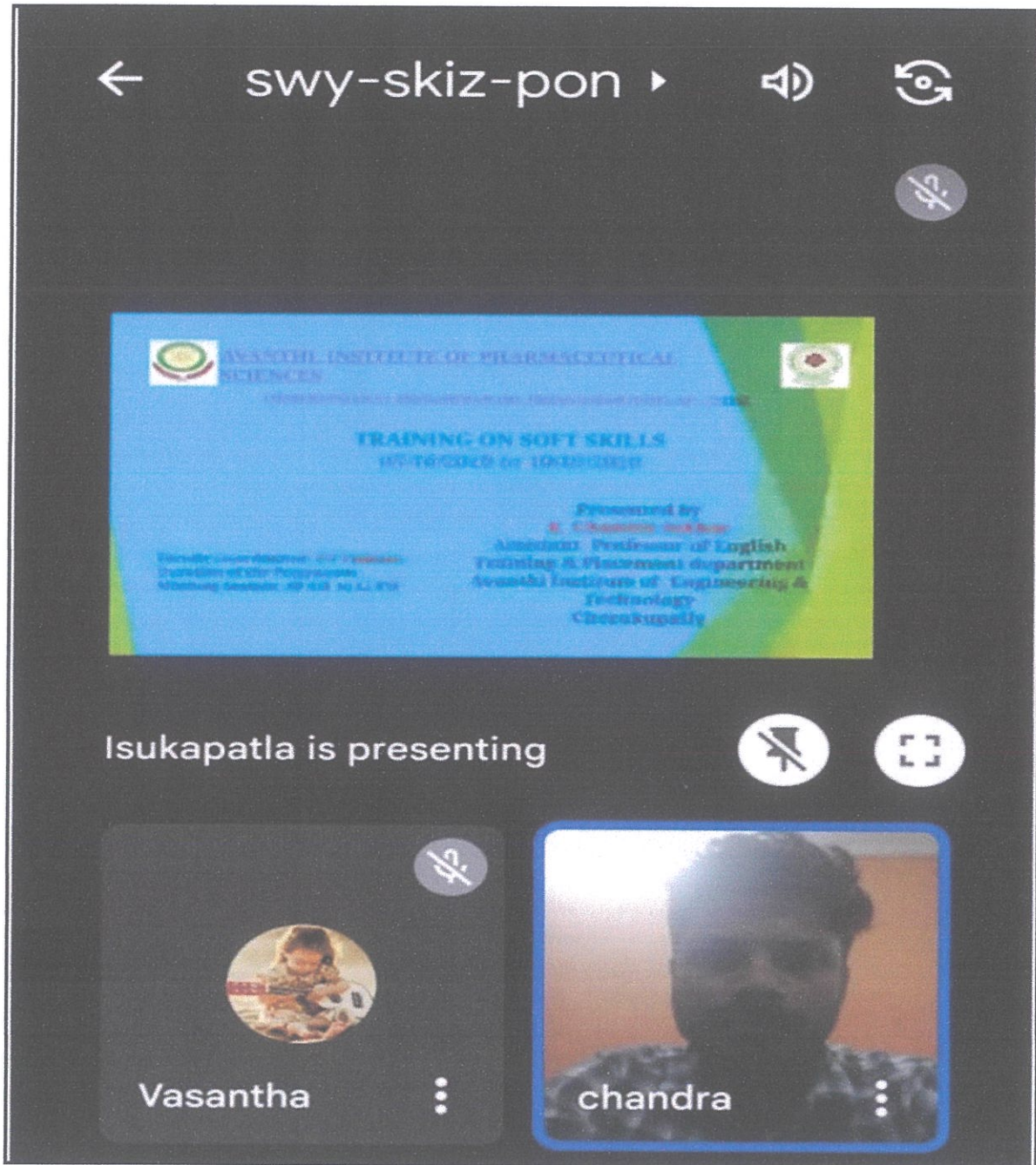


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**Online session on decision making skills by k. chandra sekhar,
Associate Professor of English to III B.Pharmacy students**

<https://meet.google.com/swy-skiz-pon>



K. Chandra Sekhar
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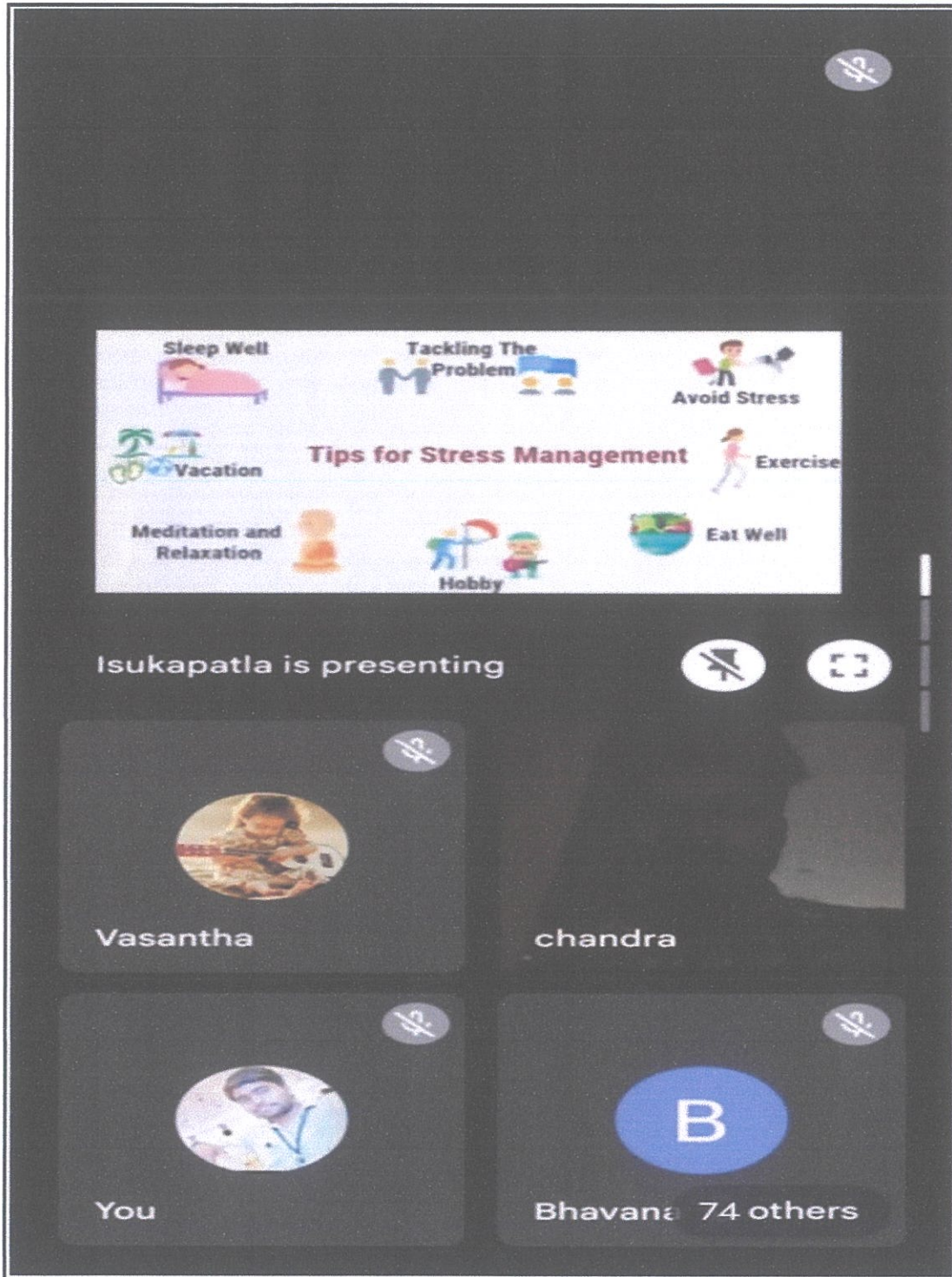


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Online session on Importance of stress management by k. chandra sekhar,
Associate Professor of English to III B.Pharmacy students

<https://meet.google.com/swy-skiz-pon>



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TIME TABLE

S.no	Topics	Year	Date of Implementation	Timings
1	Importance of time management	III B PHARM	05/10/2020	10:00AM – 12:30PM
		III B PHARM	06/10/2020	10:00AM – 12:30PM
2	Importance of stress management	III B PHARM	07/10/2020	10:00AM – 12:30PM
		III B PHARM	08/10/2020	10:00AM – 12:30PM
3	Decision making skills	III B PHARM	09/10/2020	10:00AM – 12:30PM
		III B PHARM	10/10/2020	10:00AM – 12:30PM



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- Training program name** : How to improve active listening skills, importance of self motivation and confidence building skills
- Duration of training** : 22/12/2020 to 29/12/2020
- Resource Person details** : R. Hema Latha, M.A, M.Phil, B.Ed
Associate Professor of English
Campus Recruitment Training
Avanthi Institute of Engineering & Technology,
Vizianagaram.
- Faculty coordinator** : A. Nanaji
M.Pharm
Associate Professor
Department of Pharmacognosy
Avanthi institute of Pharmaceutical Sciences
9912616124
- No of participants** : 102
- Link to join in link** : <https://meet.google.com/ppm-enws-dnt>



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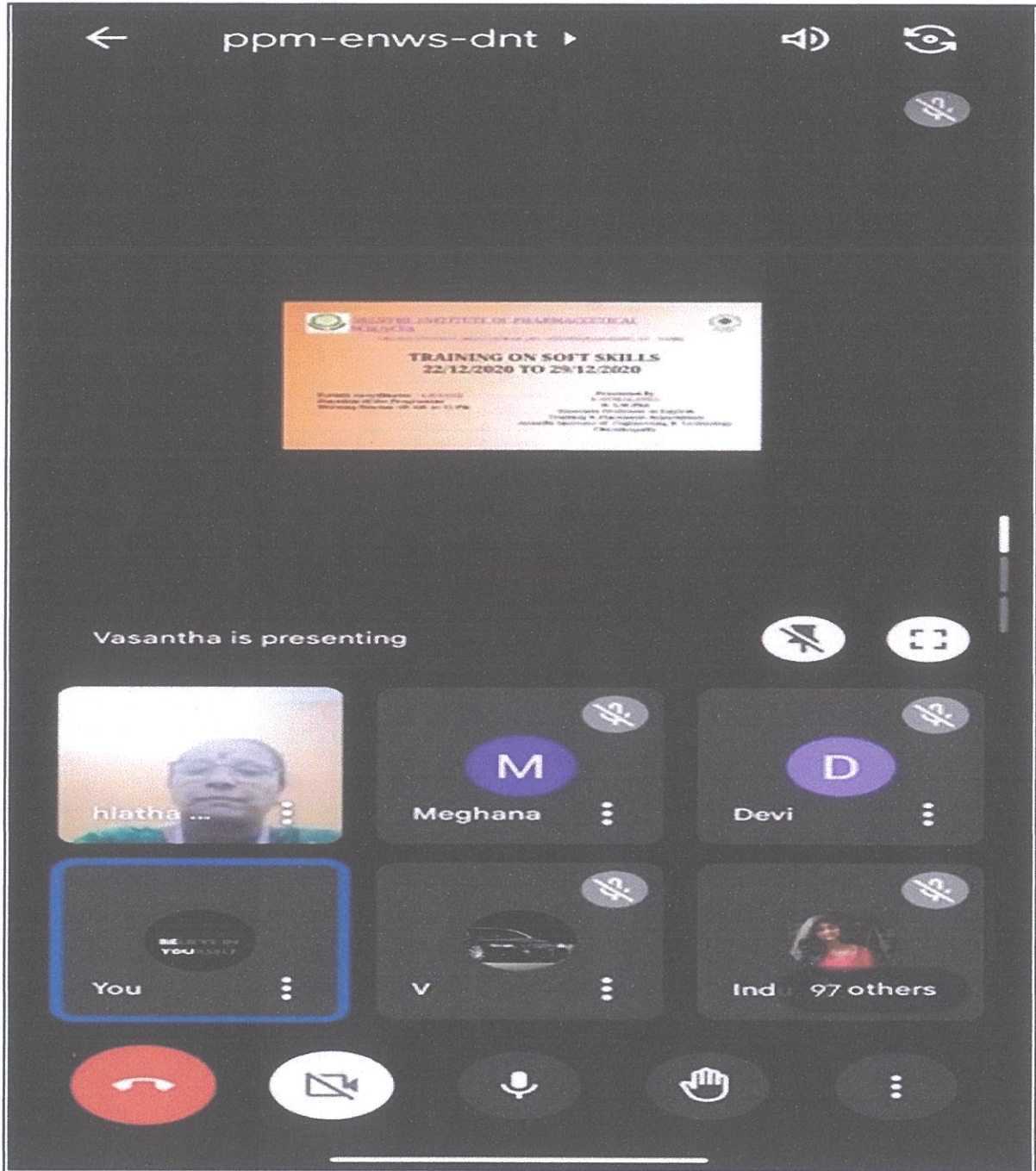


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Online session on How to improve active listening skills by
R.Hema Latha, M.A, M.Phil, B.Ed to II B.Pharmacy students

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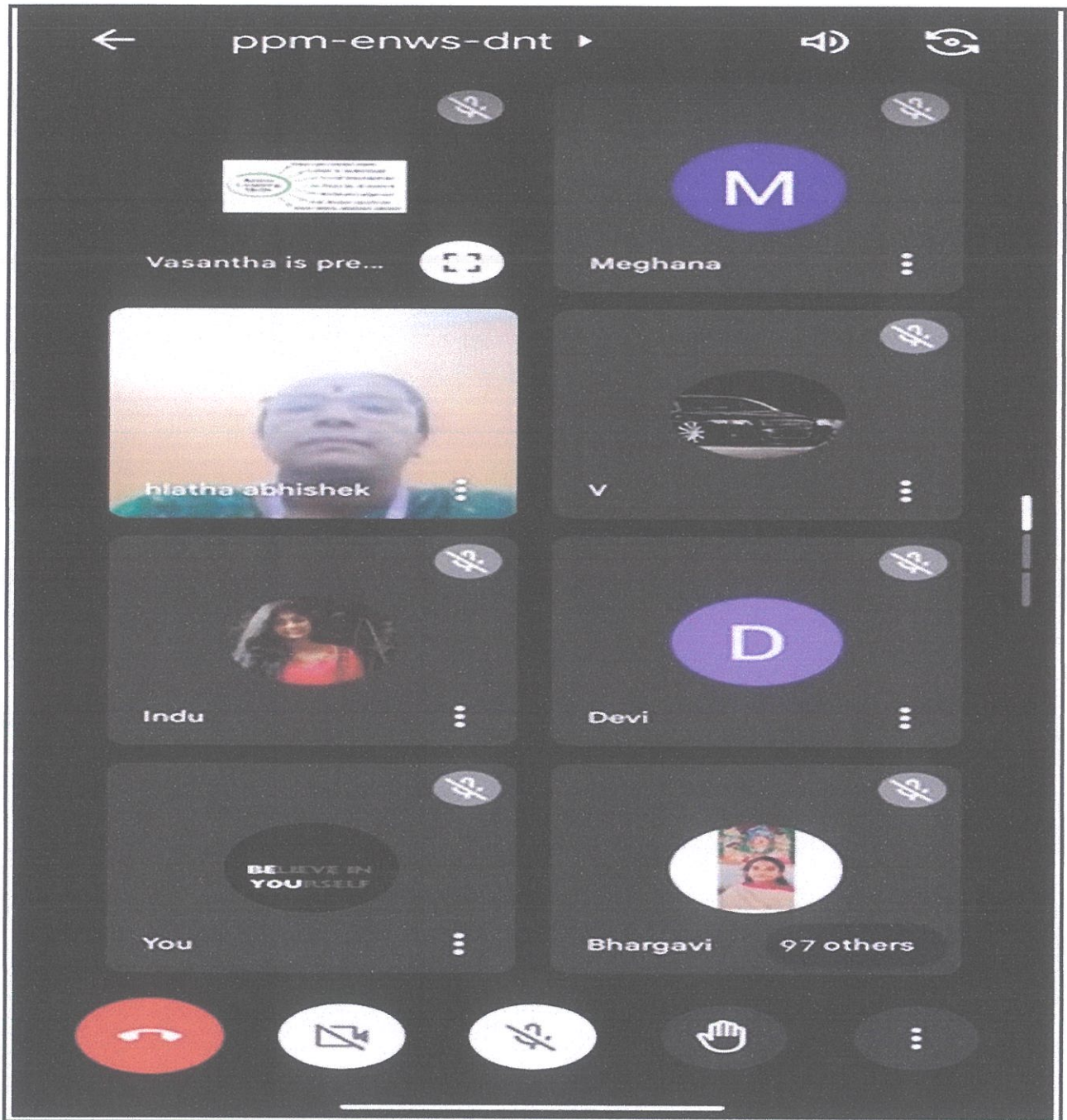


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Online session on Importance of self motivation and confidence building skills by R.Hema Latha ,M.A ,M.Phil , B.Ed to II B.Pharmacy students



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TIME TABLE

S.no	Topics	Year	Date of Implementation	Timings
1	How to improve active listening skills	IF B PHARM	22/12/2020	10:00AM – 12:30PM
		II B PHARM	23/12/2020	10:00AM – 12:30PM
2	Importance of self motivation	II B PHARM	24/12/2020	10:00AM – 12:30PM
		II B PHARM	26/12/2020	10:00AM – 12:30PM
3	Importance of confidence building skills	II B PHARM	28/12/2020	10:00AM – 12:30PM
		II B PHARM	29/12/2020	10:00AM – 12:30PM




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2.3 Problem solving method:

Problem-based learning (PBL) is a student-centered approach in which students learn about a subject by working in groups to solve an open-ended problem.

3.1 Assignment

3.2 Project Work

3.3 Case study

3.4 Practice School

3.1 Assignment

Assignments promote independent learning and self-discipline. When students are tasked with completing assignments, they are required to manage their time effectively, conduct research, and engage with the material outside of the classroom. This fosters a sense of responsibility and encourages students to take ownership of their learning, preparing them for future academic and professional challenges.

Academic activities includes assignments , this activity carries 3 marks , these are added in continuous mode .




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ASSIGNMENT-1

NAME :- A. PRIYANKA

ROLL NO :- 20T51R0005

SUBJECT :- PHARMACEUTICS

TOPIC :- BRITISH PHARMACOEPIC, PARTS OF
PRESCRIPTION

YEAR :- 1st year

BATCH :- A

SUBMITTED TO :-

I. Adi Lakshmi madam



Hyman
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BRITISH PHARMACOPOEIA :-

- It is the national pharmacopoeia of united Kingdom.
- It is to be published annually.
- It is a collection standard for medical substances in the U.K which is used for individuals and organisation involved in the development manufacturing and testing.

EDITIONS OF PHARMACOPOEIA :-

- The 1st B.P published in year 1864 by general council of medical education and registration of U.K and the B.P is fusion of 2 countries.

(1) Edinburgh (Scotland)

(2) London (London)

The second edition of B.P released in year 1867.

The third edition of B.P released in year 1885.

The fourth edition of B.P released in year 1898.

The fifth edition of B.P released in year 1914.

The sixth edition of B.P released in year 1953.

- 1st section contains material medica.

- 2nd section contains preparation and compounds.

BP 2004 contains 6 volumes

i and ii contains medical substances.

iii volume contains

- Blood related products
- Radio pharmaceutical surgical materials
- Immunological substances.

iv volume contains supplementary chapter 1, 2 and 3 and veterinary products.

v volume contains only veterinary medication




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Volume CD rom version.

* BP 2010 was started by TSD [The stationary office] And it is legally come into exciting by 1st Jan 2010 which is part of MHRA [Medical and health products of regularity affects]

→ BP 2013 contains 6 volumes of 11 new monographs

→ BP 2014 contains 400 monographs online version

→ BP 2016 also contains 4000 monographs.

→ BP 2017 was legally come into exciting was 1st Jan 2017

→ 3rd version printed version, online CD ROM version.

And contains 234 supplementary monograph & 7 new monograph
114 formulations by today the BP has been used almost 300 countries

→ In the first edition BP some of the terms have been changed

Ex:- Prolonged release tab - slow

Gastric tablets - Enteric coated tablets.

PRESCRIPTION

→ It is the written order format which is prescribed registered medical practioner or a licensed practioner, such as dentist or veterinary or a licensed practioner, such as dentist or veterinary etc.

→ It acts as a media b/w pharmacist and patient.

→ The prescription always to be written in English and forms of the terms it also be in latin language for example abbreviations.

→ The latin terms are always to be familiar to the pharmacist.

→ The prescription is useful for compounding the medication by the pharmacist and depending to medication of pharmacist.



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PARTS OF PRESCRIPTION :-

→ Prescriptions are generally written on a typical format which are usually kept as pads.

consists of following parts.

- 1, Date.
- 2, Name, age, sex and address
- 3, Superscription.
- 4, Inscription.
- 5, Subscription.
- 6, Signature
- 7, Renewal instructions.
- 8, Signature, address & registration number of prescriber.

1, DATE :-

It helps a pharmacist to find out the date of prescribing and date of prescription for filling the prescription. The prescription date, so as to avoid the misuse of prescription if it is presents by the patient, a number of times for dispensing.

2, NAME, AGE, SEX AND ADDRESS OF THE PATIENT :-

Name, age, sex and address of the patient must be written in the prescription because it serves to identify the prescription. In case, if any of these information is missing in the prescription the same may be included by the pharmacist especially in case of children, help the pharmacist to check the prescribed dose of prescription.

3, SUPERSCRPTION :-

It is represented by symbol "R" which is written before writing the prescription. Rx is an abbreviation of latin word recipe, meaning "You take" (Take thou). In older days, the symbol was considered to be originated from the sign of Jupiter - god of healing. This symbol was employed by the ancient in requesting god for the recovery of patient.



Principal

4, INSCRIPTION :-

This is the main part of the prescription, order contains the names and quantities of the prescribed ingredients. The names of the ingredients are generally written in English language but common abbreviation used can be written both in English & Latin language.

divided into 3 parts -

- (a) Base
- (b) Adjuvant
- (c) Vehicle.

(a) BASE :- To produce the therapeutic effect.

(b) ADJUVANT :- Enhance the action of medical or to improve palatability of the preparation.

(c) VEHICLE :- To increase the volume of prescription.

5, SUBSCRIPTION :-

This comprises direction to the pharmacist for preparing the prescription and no. of doses to be dispensed. These days, the prescribers are omitting the specific instructions to the pharmacist because of majority of the prescriptions are not compounded and dispensed.

6, SIGNATURA :-

This consists of the direction to be given to the patient regarding the administration of the drug. It is usually written as 'Sig' prescription. The instructions given in the prescription are required to be transferred to the label of the container in which the medicament is to be dispensed, so that the patient can follow it. The instructions may include

- (a) The quantity to be taken
- (b) Frequency and timing of administration
- (c) Route of administration
- (d) Dilution direction.




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7, RENEWAL INSTRUCTIONS :-

The prescriber indicate on every prescriber, whether it may be renewed and if so, how many times. It is very important particularly in the prescription containing the narcotic and other habit forming drugs to prevent its misuse.

8, SIGNATURE, ADDRESS AND REGISTRATION NUMBER OF PRESCRIBER :-

The prescription must bear the signature of the prescriber along with its registration number and address. It is very important particularly in the prescription containing the narcotic and other habit forming drugs, to prevent its misuse.

SATWIK CLINICS		Ph: 7702334358
- VISAKHA PATNAM, 5-4-302/1 -		9885315390
<u>Name</u>	: B. Charishma Sai	<u>Age</u> : 19
		<u>Sex</u> :- Female.
<u>Address</u>	:- East point colony, 5-4-302/1,	
<u>Inscription</u>	Light kaolin	12.0g
	Light magnesium carbonate	3.0g
	Sodium bicarbonate	30g
	Peppermint water add upto	90ml
<u>Subscription</u>	Habit :- mistura	
<u>Signature</u>	:- Cochlear magnum. ter in die post cibos sumenda.	
<u>Refill</u> :		sd/- Sathwik M.B.B.S., M.D

Admission (3)



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3.2 Project Work:

A project work is a planned and definitely formulated piece of study involving a task or problem taken up by the learner, either individually or in a group, to supplement and apply classroom and laboratory transactions. It follows the approach of Learning by Doing and Learning by Living.

Project work. All the students shall undertake a project under the supervision of a teacher and submit a report. The area of the project shall directly relate any one of the elective subject opted by the student in semester VIII. The project shall be carried out in group not exceeding 5 in number. The project report shall be submitted in triplicate (typed & bound copy not less than 25 pages). The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of five students).

IV B. Pharmacy Project List

Admitted batch -2017

Academic Year- 2020-21

S. No.	Batch No.	Registered No.	Name of the Student	Title of the Project	Name of the Guide
1	Batch 1	17T51R0001	A.Krishna vara sai venkat	Formulation and evaluation of floating tablets of captopril	B. Bhagya Sri M.Pharm
2		17T51R0002	A.Mohini		
3		17T51R0003	A.Gowri Teja Sri		
4		17T51R0004	A.Sudheer		
6	Batch 2	17T51R0006	B. Durga Prasad	Phytochemical Evaluation on Seeds of Datura Stranomium	Dr. N. Neelima M. Pharm ; Ph.D.
7		17T51R0007	B. Laya		
8		17T51R0008	B. Jyothsna		
9		17T51R0009	V. Rachana		
11	Batch 3	17T51R0023	G. Vamsi	"Evaluation of IN- VITRO Anti- Oxidant Activity of leaves of Mallotusphilippensis."	A.H.V. Santhoshi M. Pharm. (Ph.D)
12		17T51R0024	G. Rohith		
13		17T51R0025	G. Neelima		
14		17T51R0026	Gorinta. Priyanka		
16	Batch 4	17T51R0027	G. Dakshayani	"Formulation And Evaluation of Budesonide Controlled Release Tablets By using Natural Gum."	Dr. Sathya Surya Prasad.CH
17		17T51R0028	V. Manohar		
18		17T51R0029	I. Madhuri Priya		
19		17T51R0030	J. Dakshayani		
21	Batch 5	17T51R0031	K. Naga Himabindu	"Extraction of Pectin from watermelon Rind."	Mrs. Madhavi Kumari mpharm
22		17T51R0032	K. Hari Chandana		
23		17T51R0033	K. Aparna		
24		17T51R0034	K.V. Sai A		



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			Lahari Likitha		
26	Batch 6	17T51R0035	K. Srivalli	The aim of the study is to develop validation of thiocolchicoside.	Mrs. B. Aruna M. Pharm
27		17T51R0036	K. Samyuktha		
28		17T51R0037	K. Rahul		
29		17T51R0038	M. Karthik		
31	Batch 7	17T51R0043	M. Pavan Kalyan	"Beneficial Effects of Different Methanolic Extracts of Moringa Oleifera	D.J. Vinay Ramji M. Pharm
32		17T51R0044	M. Vamsika		
33		17T51R0046	M. Durga Devi		
34		17T51R0047	M. Pavani		
36	Batch 8	17T51R0048	M. Pavani	Formulation And Evaluation of Meloxicam Tablets By Using Direct Compression Method	S. ChandraSekhar M. Pharm
37		17T51R0049	M. Sai Kiran		
38		17T51R0050	M. Reshma		
39		17T51R0051	N. Mounika		
40		17T51R0056	Praveen		
41	Batch 9	17T51R0056	Praveen	"Degine And Development of Tamsulosin Hydrochloride Tablets	Dr Satya Surya Prasad Ch.
42		17T51R0057	P. Santosh		
43		17T51R0058	P. Sai Kumar		
44		17T51R0059	P. Sivakali Bhargavi		
46	Batch 10	17T51R0064	R. Vandana	"Mosquito Repellant Activity of multi-Herbal Extracts Mixtures	Mrs. Madhav Kumari M. Pharm
47		17T51R0065	R. Manikanta		
48		17T51R0066	R. Manjusha		
49		17T51R0067	S. Srivalli		
51	Batch 11	17T51R0068	S. Kedha Shritha	"Analytical method Development And Validation of Gemcitabine Hydrochloride By RP-HPLC Method "	Dr. N. Neelima M. Pharm. Ph.D
52		17T51R0070	S. Yesu Babu		
53		17T51R0071	D. Esther Rani		
54		17T51R0072	S. Sruthi		
55	Batch 12	17T51R0073	S. Praneetha	Phytochemical analysis of the leaves of Terbulin rosa "	
57		17T51R0074	Sri Siva Rupa		
58		17T51R0076	S. Swathi		
61		17T51R0077	T. Aparna		
62	Batch 13	17T51R0078	Y. Mounika	"Analytical method Development And Validation of Gemcitabine Hydrochloride By RP-HPLC Method	Mrs. Chaithanya M. Pharm. Ph.D
63		17T51R0079	T. Prameela		
64		17T51R0080	U. Suryam		
65		17T51R0081	U. Vasantha		
66		18T51R0073	T. Anitha		



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V Pharm. D-Project List

Admitted batch -2016

Academic Year- 2020-21

S. No.	Batch Number	Roll Number	Name of the Student	Project Title	Name of the Guide
1	Batch 1	16T51T0021	S. Akhila	Identification of preterm birth risk factors and appraisal of role of clinical pharmacist in preventing preterm births – A prospective interventional study	V. Uma Sankar
2		16T51T0015	N. Thanusha		
3		16T51T0004	B. Omkar		
4		16T51T0011	M. Sudheer Kumar		
5	Batch 2	16T51T0002	Asi Jaya Lakshmi	Drug utilization evaluation of anti-platelet agents in tertiary care teaching hospital – A prospective observational study	Dr. V.C. Randeep Raj
6		16T51T0018	P. Rishitha Reddy		
7		16T51T0020	P. Prathul		
8		21T51T0022	S. Bhavya Anusha		
9	Batch 3	16T51T0023	Sh. Sanjeeda Amreen	“Pharmacovigilance study of Covid -19 Vaccines in south india content; A prospective observational study.”	Dr.B. Manoj Kumar
10		16T51T0010	L. Raviteja		
11		16T51T0026	Y .Sai nandini		
12		16T51T0014	N. Hema Madhuri		
13	Batch 4	16T51T0006	D. Mydhini	“Drug utilization pattern of Antiepileptic drug and their Adverse effects in peadiatric unit of Tertiary care Teaching Hospital.”	Dr. T. Rushi Naidu
14		16T51T0027	M. Supriya mani		
15		16T51T0013	M. Prasanthi		
		16T51T0001	A .Siresha		
17	Batch 5	16T51T0008	J. Prameela	“Role of A pharmacist in Evaluating The management And Assessment of Knowledge ,Quality of life [QOL] , in Renal Disease patients – Aprospective international study.”	Dr.V. C. Randeep Raj
17		16T51T0019	P. Jyoshna		
19		16T51T0009	Sowjanya Hepsibha		
20		16T51T0010	Adikavi Jyothsna		



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**BENEFICIAL EFFECTS OF DIFFERENT
METHANOLIC EXTRACTS OF *MORINGA OLEIFERA*
IN NORMOGLYCEMIC AND ALLOXAN INDUCED
WISTAR DIABETIC RATS**



Thesis Submitted to

JNTU Kakinada, Andhra Pradesh

For the award of the degree of Bachelor of Pharmacy
By

M.PAVAN KALYAN

(17T51R0043)

M. VAMSIKA

(17T51R0044)

M. DURGA DEVI

(17T51R0046)

M.PAVANI

(17T51R0047)

Under the guidance of

D.J.VINAY RAMJI

M.Pharm,
Assistant professor

Under the co-guidance of

Dr.M.B. VENKATAPATHIRAJU

M.Pharm, Ph.D.
Professor and Principal



ESTD 2005

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CHERUKUPALLY(V),CHITTIVALASA,(P.O),BHOGAPURAM(M)

VIZIANAGARAM(D)-531162,ANDHRA PRADESH,2017-2021



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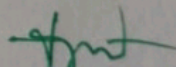
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**“IDENTIFICATION OF PRETERM BIRTH RISK FACTORS AND APPRAISAL OF
ROLE OF CLINICAL PHARMACIST IN PREVENTING PRETERM BIRTHS –
A PROSPECTIVE INTERVENTIONAL STUDY.”**

A project report submitted to



JNTUK, KAKINADA, A.P.

In partial fulfilment of the regulations for the Award of Degree of

DOCTOR OF PHARMACY

Submitted by

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N. THANUSHA, Regd no: 16T51T0015

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Under the guidance of

Asst Prof. V. UMA SANKAR, M. Pharm, P.G.D.E.S

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BHOGAPURAM (M), VIZIANAGARAM (DIST), A.P-531162.**

2020-2021



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Date:

Place:Cherukupally.

V. Uma Sankar

Department of Pharmacotherapeutics



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3.3 CASE STUDY BY PHARM D STUDENTS

Pharmacy Case Studies helps students understand the application of therapeutics in clinical practice. It tests knowledge gained within the individual areas of law and ethics, pharmaceuticals, pharmacology and pathology by examples, bringing together various areas taught on the degree course. Case studies of increasing complexity in strands of learning from across the pharmacy curriculum. Scenarios include both community and hospital pharmacy situations, as suited to the disease and pharmaceutical care provision. Each chapter contains five case studies with questions and answers increasing in complexity from those for first year students through to cases designed for fourth year/pre-registration level.



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PATIENT PROFILE FORM

Name: Ammulu I.P. No: 31348 Age: 50 Gender: F Department: General Medicine
Unit: III D.O.A: _____ D.O.D: _____ Address: _____

A) SUBJECTIVE EVIDENCE:

- Chief complaint: clo SOB grade IV since 2 months.
Pedal edema :: 5 days.
- History of present illness: SOB grade IV pedal edema, no cough
& expectoration No decreased urine output, no fever
- Past medical history: No similar complaint in the past, HTN ⊕
- Past medication history: No medication for HTN
- Family history: No relevant family history.
- Social history:

Smoker: _____

Alcoholic: _____

Occupation: _____

B) OBJECTIVE EVIDENCE:

Vitals	Day1	Day2	Day3	Day4	Day5	Day6	Day7
Blood pressure	<u>160/100</u>	<u>180/100</u>					
Respiratory rate							
Temperature							

PHYSICAL EXAMINATION:

Respiratory System							
Cardio Vascular System	S ₁ S ₂ ⊕						
Central Nervous System							
Abdomen							

C) LAB INVESTIGATIONS:

HB-10

Neutrophils - 75

Lymphocytes - 23

Eosinophils - 4

Monocytes - 05

2 Decho — EF - 26%
 \ FS : 13%

D) DIAGNOSIS:

CHF ⊖ reduced EF (26%)

E) ASSESSMENT:

1) Aetiology:

a) Cause of the problem:

b) Does the patient have any risk factors:

HTN ⊕

c) Is this a drug-induced disease:

2) Need for therapy:

Nature of the problem: Mild / Moderate / Severe / Acute / Chronic:

3) Current therapy:

Drug name	Dose	Dosage form & R.O.A	Frequency	Duration Of the Treatment							
				1	2	3	4	5	6	7	
Lasix	40mg	IV	BD	✓	✓	✓					
Enalapril	5mg	PO	BD	✓	✓	✓					
Aldactone	25mg	PO	OD	✓	✓	✓					
pantop	40mg	IV	OD	✓	✓	✓					
Ophreuvon	2Amp	IV	NS	✓	✓	✓					

a) The necessity of current drugs (justify):

antihypertensive (enalapril), Diuretic (furosemide)
Multivitamin (ophreuvon)

b) Patients response to treatment:

(+ve)

c) Any adverse effects:

no

d) Is patient adherent to the treatment: Yes

e) Correctness of Dose / Dosage form / R.O.A of drug regimen:

F) PLAN:

- Goals for the problem: TO relieve signs and symptoms and to restore back normal health condition.
- Recommend treatment: continue treatment/discontinue treatment:
(If discontinued specify the reason)

Continue treatment

Suggest alternate therapy (if current therapy is not working or results in adverse effect)

Patient Education:

1) About disease: Heart failure with reduced ejection fraction happens when the left side of your heart does pump blood out of the body as well as normal. It is some times called heart failure.

2) Use of the drugs:

Anticoagulants
Antihypertensives.

Administration Guidelines:

Diuretics (Lasix 40mg) BD
Enalapril 5mg BD

Dietary changes:

Reduce sodium intake
Avoid oil foods, street food.

Lifestyle modifications:

Reduce stress levels by including relaxation exercises
in daily routine.

Precautions:

Reduce sodium intake
Avoid stress.





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3.4 PRACTICE SCHOOL FOR B-PHARM

Practice School is an innovative concept in undergraduate engineering education, which creates a bridge between conventional classroom learning and gaining valuable real-life experience in an industry or research organization.

In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school declared by the program committee from time to time. At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages). Along with the exams of semester VII, the report submitted by the student, knowledge and skills acquired by the student through practice school shall be evaluated by the subject experts at college level and grade point shall be awarded.



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A REVIEW ON CAD MILL



Practice school submitted to

JNTUK, KAKINADA, A.P

**In Partial Fulfillment for the
Award of Degree of**

BACHELOR OF PHARMACY

Submitted by

B.Sai Devi (17T51R0010)

Under the guidance of

Y. VISHNU VANDHANA (M.Pharm)

Associate Professor



ESTD : 2005

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CHERUKUPALLY, VIZIANAGARAM DISTRICT-531162, A.P.
(2020-2021)**



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INTRODUCTION:

- CAD/CAM technology, also known as Computer-Aided Design/Computer-Aided Manufacturing, has revolutionized the field of engineering and design over the years.
- With its ability to create virtual models and simulate manufacturing processes, CAD/CAM technology has significantly impacted various industries, such as aerospace, automotive, and healthcare.



CAD MILL -MULTI MILL MANUFACTURER

- The evolution of CAD/CAM technology can be traced back to the 1950s when the first computer-based drafting systems were developed.
- Since then, CAD/CAM has undergone tremendous advancements, with the introduction of 3D modeling and simulation tools, making it an indispensable tool for designers and engineers.
- This introduction aims to explore the evolution and impact of CAD/CAM technology, discussing its principle, instrumentation, application, as well as its advantages and disadvantages.

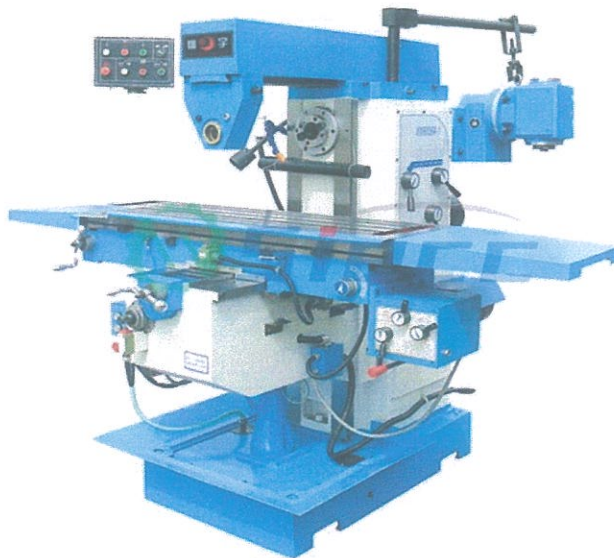


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PRINCIPLE:

- CAD/CAM systems have revolutionized the manufacturing industry by enhancing efficiency and precision in the design and production processes.
- These systems utilize computer-aided design (CAD) software to create detailed digital models of products and computer-aided manufacturing (CAM) technology to control the machines that bring these designs to life.
- By using CAD software, engineers and designers can easily create, modify, and analyze complex 3D models, greatly reducing the time and effort required compared to traditional manual drafting methods.



MILLING MACHINE OPERATORS

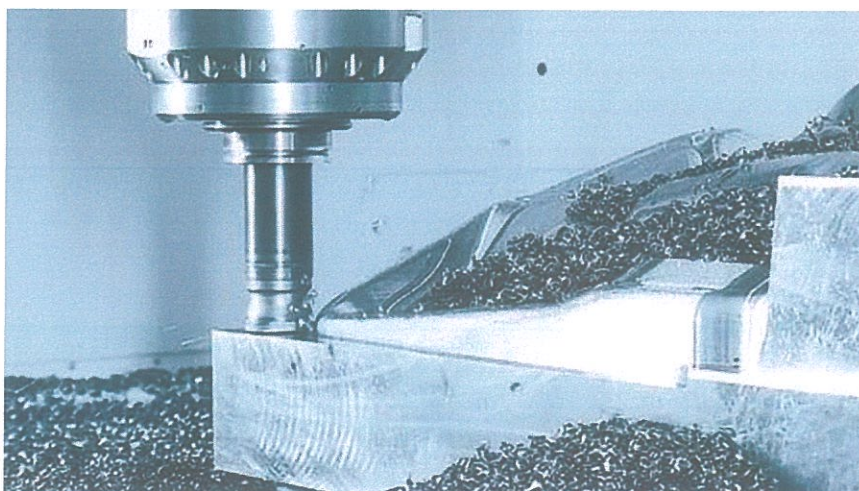
- This level of precision and automation results in increased efficiency, as it eliminates human errors and allows for faster production cycles.
- Additionally, CAD/CAM systems offer the advantage of providing a realistic visualization of the end product, which aids in the design verification process and helps communicate ideas effectively.
- The benefits offered by CAD/CAM systems in terms of enhanced efficiency and precision outweigh these drawbacks, making them an indispensable tool in the modern manufacturing industry.



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ADVANTAGES:

- Reduced storage space.
- Corrections can be made easily.
- Repetitive parts of the drawing can be saved and imported as part of a “CAD library”.
- CAD systems can be linked with CAM machines to produce objects straight from the drawings.
- 3D CAD designs can be made to look realistic by using the material library for clients to see.
- CAD designs can be easily shared between companies or department using email.
- CAD can be used to create simulated environments to show the client.



APPLICATIONS:

- The instrumentation and applications of CAD/CAM technology have revolutionized the fields of design and manufacturing.
- CAD (Computer-Aided Design) utilizes software to create, modify, and analyze designs, allowing for increased precision and efficiency in the design process.
- CAM (Computer-Aided Manufacturing) takes these CAD designs and utilizes software and hardware to control manufacturing processes, such as machining, 3D printing, and robotic assembly.



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CAD MILL WHOLESALER MANUFACTURER

- Additionally, CAD/CAM technology enables designers and manufacturers to simulate and optimize designs before physical production, saving time and resources.
- However, there are some challenges and limitations associated with CAD/CAM technology.
- The initial investment and training required for implementing CAD/CAM systems can be costly, making it less accessible for smaller companies.

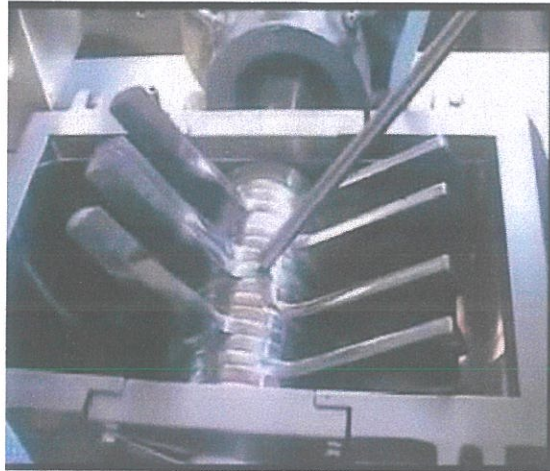
QUALITY CONTROL:

- CAD software allows designers to return to the drawing board in case of errors.
- Saved drafts and designs can be referenced easily to address any potential mistakes.
- The use of the computers for quality control of the product is called as the computer aided quality control or CAQC.
- The two major parts of quality control are inspection and testing, which are traditionally performed manually with the help of gages, measuring devices and the testing apparatus.



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MAINTANANCE AND SAFETY:



CAD MILL

- Quality assurance is an important part of your manufacturing chain.
- The end-to-end Tebis solution lets you check any parts right after manufacturing.
- With standardized operation from CAD to CAM to CAQ in a single system, you can quickly and easily integrate quality control in your processes.
- Whether you want to measure your parts with NC control on milling and measuring machines or do it manually – Tebis provides you with all the necessary function.

ENVIRONMENTAL CONSIDERATION:



COMMINUTING MILL




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- CAD software is not only a tool for creating and modifying digital models, but also a tool for improving your environmental impact.
- By using CAD software, you can reduce waste, save energy, and promote sustainability in your projects, and contribute to a greener and more responsible design culture.
- CAD/CAM, or computer-aided design and computer-aided manufacturing, is a widely used technology in various industries, such as engineering, architecture, product design, and dentistry.
- It allows creating digital models and producing physical objects with high precision and efficiency.
- However, CAD/CAM also poses some environmental challenges, such as energy consumption, waste generation, and material selection.

CONCLUSION:

- Due to the various materials available nowadays, the term chairside CAD/CAM restoration is not fully explicative of the actual restorations.
- Understanding the material , features, their pros and cons, and how they have to be handled will play a paramount role in choosing the specific material for a particular clinical situation.
- The outcome of the clinical treatment is strictly related to the attention paid to choosing the unique properties and features of the various categories of CAD/CAM materials.
- The success of chairside restorations depends on several factors such as material selection,restoration design, occlusion, and cementation.
- Some material offered few years ago have been withdrawn of the market.
- The use of CAD/CAM technology in the dental field is very promising.
- These systems have aided many dentists in the fabrication of several restorative and prosthetic devices.
- This, in turn, has helped to improve and better maintain the oral health of patients around the world.
- Enhanced techniques and materials are still needed to further increase the accuracy and durability of the devices fashioned from these machines.





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- Additional research is also needed to assess the reliability, functionality, and longevity of the dental prostheses and restorations.
- The clinician must choose the material best suited to his works habits.

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