



**Summary Report on Add on /Certificate/ Value Added Programs for Academic Year
2021-2022**

S. No	Name of Add on /Certificate/ Value added programs offered	Page No
1	Extraction of Galenical Products	2-4
2	Drug Delivery Principles and Engineering	5-7
3	Advanced Automatic Titrations in Pharmaceutical Analysis	8-10
4	Inhibition of Protein Biosynthesis: Its Significance in Drug Design	11-13
5	Critical Care Medicine	14-16
6	Electrocardiogram Interpretation and Study of Electrophysiology	17-19
7	Microbial Nanotechnology and Multidisciplinary Applications	20-22
8	Assessment of Laboratory Animals in Drug Discovery Process	23-25
9	Bioprospecting: The Search for Bioactive Lead Structures from Nature	26-28
10	Introduction To Corona: Manufacturing, Safety and Quality Control of Covid-19 Vaccine	29-31
11	Global Regulatory Frame Work for Herbal Medicine	32-34
12	Advance Cardiac Life Support	35-37
13	Understanding Dementia	38-40
14	Neuro Care Medicine	41-43
15	Biomedical Visualization	44-46
16	Interpretation of Vital Signs	47-49
17	Science of Stem Cells	50-52
18	Clinical Data Management	53-55
19	Fundamentals of Medical Coding	56-58
20	Regulatory Authorities in Pharma Sector	59-61
21	Analytical Quality by Design (AQBD) In Pharmaceutical Development	62-64
22	Cancer Related Immunotherapy	65-67
23	Application of 3D Printing in Pharmaceutical Sector	68-70



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VALUE ADDED COURSE on EXTRACTION OF GALENICAL PRODUCTS

SUMMARY REPORT

A Value Added Course for 1st Year Students of B. Pharmacy was organized by the Department of Pharmaceutics at Vignan Institute Of Pharmaceutical Technology from 01st July to 07th July 2022. The course was conducted on "Extraction Of Galenical Products". The resource person for the course is **Dr G. Chandra sekhar Rao**, Professor, VIPT. The course started on 01st July 2022 with the welcome address by the coordinator **Dr P.V. Kamala Kumari** and introductory remarks by the resource person. It ended on 07th July 2022 with concluding remarks by the resources person. A total of 25 students participated and completed the course. The overall feedback from the participants was very good.

Course Objectives:

This course enables the student to know about galenicals and the methods for extraction from medicinal plants

Course Outcomes:

Upon completion of the course, the student will be able to learn the following outcomes:

1. Apply Various techniques for extracting Active Constituents from medicinal plants
2. Explain Advantages and disadvantages of various methods of extraction
3. Describe various Solvents used for extraction and applications of galenical



g. chandra sekhar
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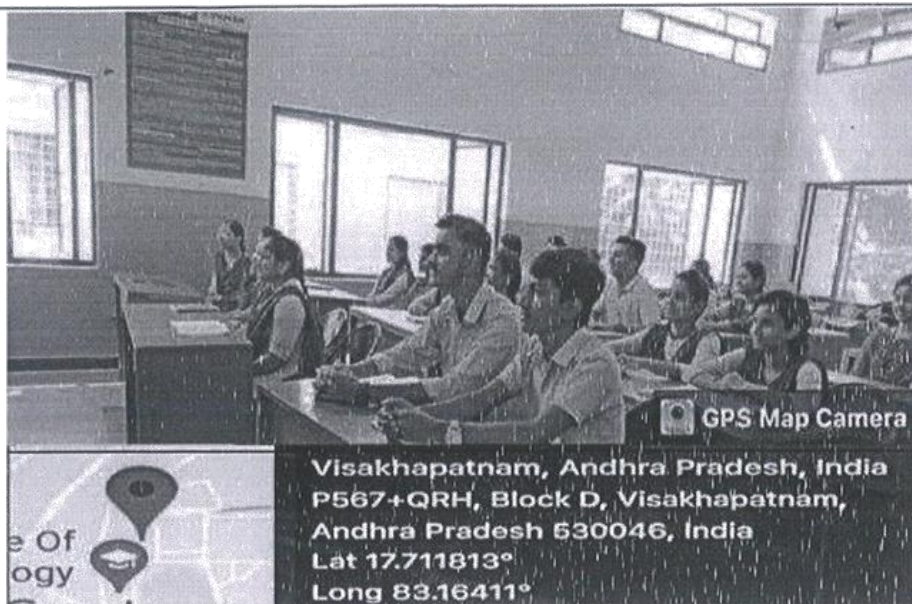


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Name of the Value added Course: Extraction of Galenical Products

Date: 01st July to 07th July 2022



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hrs
01 st July 2022 01:00 PM to 06:00PM	Introduction to Galenicals & Extraction: Definition, types of extraction methods , Maceration, Percolation and Infusion Techniques of Extraction: A General Consideration	5
02 nd July 2022 01:00 PM to 06:00PM	Solvents Used For Extraction: Solvents introduction, Types of solvents (like water, alcohol), properties of solvents along with their advantage sand disadvantages.	5
04 th July 2022 01:00 PM to 06:00PM	Methods of extraction: Detailed study of extraction methods like Infusion, percolation, digestion, maceration, decoction etc	5
05 th July 2022 01:00 PM to 06:00PM	Factors affecting extraction: Study of various factors that affect extraction which include Character of drug, therapeutic value of drug, cost and stability of drug, solvent used and the concentration of product.	5
06 th July 2022 01:00 PM to 06:00PM	Advanced methods in Extraction like 1. Ultrasound-assisted extraction (UAE), Microwave-assisted extraction (MAE), Supercritical fluid extraction (SFE), Pulsed electric field extraction (PFE) etc	5
07 th July 2022 01:00 PM to 06:00PM	Detailed study of equipment used for extraction like mixer-settler extractors - extraction columns and - centrifugal extraction equipment	5
Total		30

P.V. *[Signature]*
CO-ORDINATOR

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VALUE-ADDED COURSE on DRUG DELIVERY PRINCIPLES AND ENGINEERING SUMMARY REPORT

A Value Added Course for 1st B. Pharmacy Students organized by the Department of Pharmaceutics at Vignan Institute of Pharmaceutical Technology from 01st July to 07th July 2022. The course was conducted on “**Drug Delivery Principles and Engineering**”. The resource person for the course is **Dr. P. Uma Devi, Principal**, Viswanadha Institute of Pharmaceutical Sciences, AP. The course started on 01st July 2022 with the welcome address by the coordinator **Dr. M. Saritha, Professor**, Vignan Institute of Pharmaceutical Technology introduced the resource person. It ended on 07th July 2022 with concluding remarks by the resources person. A total of 25 students participated and completed the course. The overall feedback from the participants was very good.

Course Objectives:

- To know the pharmacokinetic of drug particles
- To select polymers, polymer drug conjugates
- To compare diffusion controlled systems
- To specify route of drug delivery.

Course Outcomes: upon completion of the course students are able to

- Understand the bioavailability, elimination and therapeutic index of drug products.
- Classify various polymers, biopolymers and polymer drug conjugates
- Categorize the diffusion controlled system.
- Select nano and micro polymeric particles
- Summarize implant associated infections, route specific delivery.



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Name of the Value added Course: **Drug Delivery Principles and Engineering**

Date: 01st July to 08th July 2022



Y. Praveen

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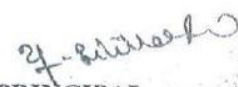
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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
1-7- 2022 01:00PM to 06:00PM	Pharmacokinetics: Bioavailability, Elimination, Therapeutic index, Prodrugs, Controlled release, Polymers: Synthesis, properties, characterization, crystallinity and amorphousness	5
2-7- 2022 01:00PM to 06:00PM	Biopolymers: Natural and Synthetic, biocompatibility, Biodegradation, commonly used biopolymers, Polymer-Drug conjugates, PEGylation	5
3- 7- 2022 01:00PM to 06:00PM	Ficks laws, Reservoir systems, Non-erodible matrix systems: Bio-erodible Systems, Metal and polymeric particles, effect of particle shape, charge and elasticity.	5
5-7-2022 01:00PM to 06:00PM	Hydrogels: Physical or chemical, pore-size calculation, in-situ, Nano and Micro-particles: Dendrimers, Liposomes, Micelles	5
6-7- 2022 01:00PM to 06:00PM	Protein Adsorption and tissue engineering: Drug delivery in tissue engineering, Vaccines, Cancer vaccines, Cell and gene delivery	5
8-7- 2022 01:00PM to 06:00PM	Implant associated infections, Route specific delivery: Oral, Subcutaneous, Intramuscular, Route specific delivery: transdermal, inhalation, intravenous, Smart responsive drug delivery, Targeted drug delivery, Nanotoxicology and market translation	5
Total		30


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VALUE ADDED COURSE

on

Advanced Automatic Titrations in Pharmaceutical Analysis

SUMMARY REPORT

A Value added course for B.Pharmacy 1st Year Students was organized by the Department of Pharmaceutical Analysis at Vignan Institute of Pharmaceutical Technology from 1st July 2022 to 7th July 2022. The course was conducted on "*Advanced Automatic Titrations in Pharmaceutical Analysis*". The resource person for the course is **Mr. K.Varaprasada Rao, Associate Professor**, Department of Pharmaceutical Analysis, Vignan Institute of Pharmaceutical Technology, Duvvada, Visakhapatnam, A.P, India. The course started on 1st July 2022 with the welcome address by the coordinator **Ms.G.Anusha, Assistant Professor, VIPT**. It ended on 7th July 2022 with concluding remarks by the resource person. A total of 25 students participated and completed the course. The overall feedback from the participants was very good.

Course Objectives:

- Carryout Various Automatic Volumetric Titrations.
- Understand the Principles of Various Automatic Volumetric, Coulometric and Conductometric Titrations.
- Develop Analytical Skills.

Course Outcomes:

Upon Completion of the Course, the Student will be able to achieve the following Outcomes:

- Understand the Basic Concepts and Principles of Titrimetric Analysis.
- Apply the Principles of Automatic Titrimetric Methods in the Analysis of Pharmaceuticals.
- Explain Concentration, Calculation of a Solution, its Preparation, Standardization and its Storage Conditions.
- Describe the Sources of Errors Commonly Developed During Drug Analysis and Methods to Minimize them.



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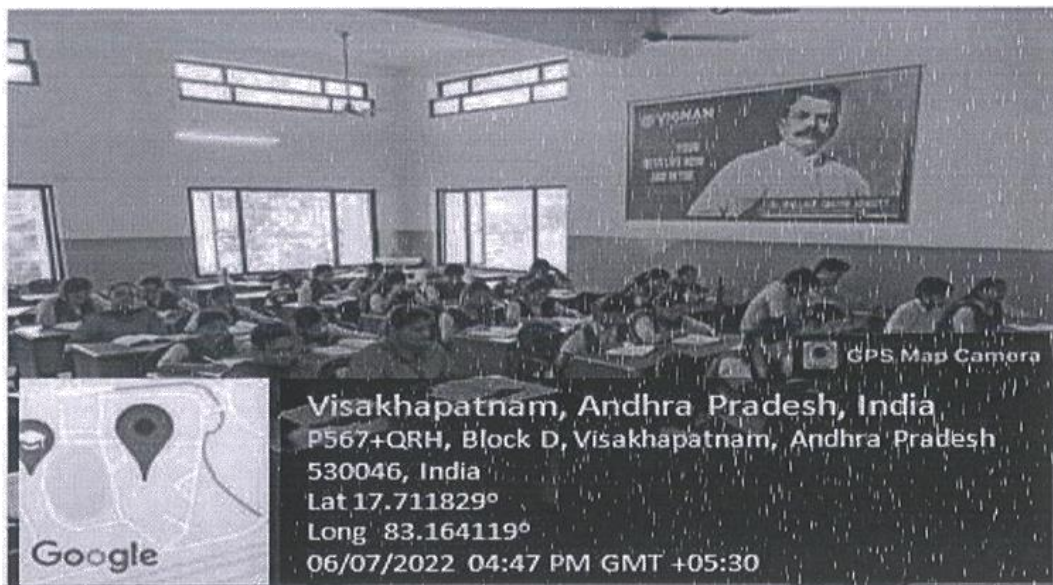
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Name of the Value added Course: **Advanced Automatic Titrations in Pharmaceutical Analysis**

Date: 1st to 7th July 2022



7. July 2022

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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
1 st July 2022 1.00PM-6.00PM	Karl Fischer(Volumetric): Introduction,Principle,Procedure,Applications	5
2 nd July 2022 1.00PM-6.00PM	Potentiometric: Introduction,Principle,Procedure,Applications	5
4 th July 2022 1.00PM-6.00PM	Complexometric: Introduction,Principle,Procedure,Applications	5
5 th July 2022 1.00PM-6.00PM	Redox: Introduction,Principle,Procedure,Applications	5
6 th July 2022 1.00PM-6.00PM	Karl Fischer(Coulometric): Introduction,Principle,Procedure,Applications	5
7 th July 2022 1.00PM-6.00PM	Conductometric: Introduction,Principle,Procedure,Applications	5
Total		30

G. And
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VALUE ADDED COURSE

on

INHIBITION OF PROTEIN BIOSYNTHESIS: IT'S SIGNIFICANCE IN DRUG DESIGN SUMMARY REPORT

A Value Added Course for B. Pharmacy 1st Year Students was organized by the Department of Pharmaceutical Chemistry at Vignan institute of Pharmaceutical Technology from 1st July 22 to 8th July 2022. The course was conducted on "**Inhibition of Protein Biosynthesis : Its Significance in Drug Design**". The resource person for the course is **Prof. Dr. Y. Rajendra Prasad**, Department of Pharmaceutical Chemistry Andhra university College of Pharmaceutical Sciences, Duvvada, Visakhapatnam, A.P, India. The course started on 1st July 2022 with the welcome address by the coordinator **Dr.D. Vasudha**, Associate Professor and introduced the resource person. It ended on 8th July 2022 with concluding remarks by the resource person. A total of 25 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective:

Understand the Inhibition of protein Biosynthesis

Develop design of various effective agents for the treatment of diseases.

Course Outcomes:

Upon completion of the course:

1. Describe mechanisms of protein synthesis and inhibition of protein synthesis
2. Explain about the mechanism, pathways of different class of medicinal active compounds
3. Understand the design, drug metabolic pathways, adverse effect and therapeutic value of drugs

Y. Rajendra Prasad

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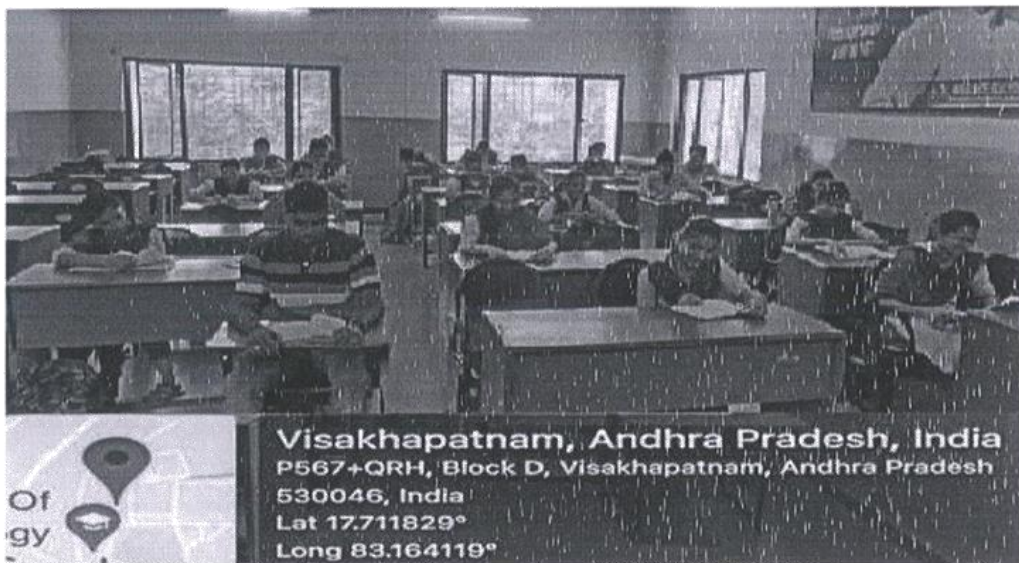
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Name of the Value added Course: **INHIBITION OF PROTEIN BIOSYNTHESIS : ITS SIGNIFICANCE IN DRUG DESIGN**

Date: 1st to 8th July 2022



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
1 st July 2022 1.00PM-6.00PM	Introduction	5
2 nd July 2022 1.00PM-6.00PM	Protein Synthesis	5
4 th July 2022 1.00PM-6.00PM	Inhibitor of Protein Synthesis	5
5 th July 2022 1.00PM-6.00PM	Design of Antibacterial Agents	5
6 th July 2022 1.00PM-6.00PM	Design of Amoebicidal Agents	5
7 th July 2022 1.00PM-6.00PM	Design of Antitumor agents	5
8 th July 2022 1.00PM-6.00PM	Design of emetic drugs	5
Total		35

D. Vardha
CO-ORDINATOR

4. 8. 2022
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VALUE ADDED COURSE

on

Critical Care Medicine

SUMMARY REPORT

A Value added course for B.Pharmacy II Year Students was organized by the Department of Pharmacology at Vignan Institute of Pharmaceutical Technology from 8th October 2021 to 14th October 2021. The course was conducted on "**Critical Care Medicine**". The resource person for the course is **Dr. K. Daniel Raju**, Associate Professor, Department of Pharmacology, Vignan Institute of Pharmaceutical Technology. The course started on 8th June 2021 with the welcome address by the coordinator **Ms. Reddi Syamala**, Assistant Professor, VIPT. It ended on 14th October 2021 with concluding remarks by the resource person. A total of 26 students participated and completed the course. The overall feedback from the participants was very good.

Course Objectives:

The purpose of this course is for better understanding critical care medicine, emergency medicine, the exchange of current and innovative procedures as well as basic and clinical research in all areas.

Course Outcomes:

Upon Completion of the Course,

- Describe the Meaning of Critical Care Unit and How Support is Different to that Provided in the Ward.
- The Management of Polytrauma Patients including the Management of Major Haemorrhage.
- The Management of Respiratory Failure in Critically Ill Patients in Intensive Care Unit.



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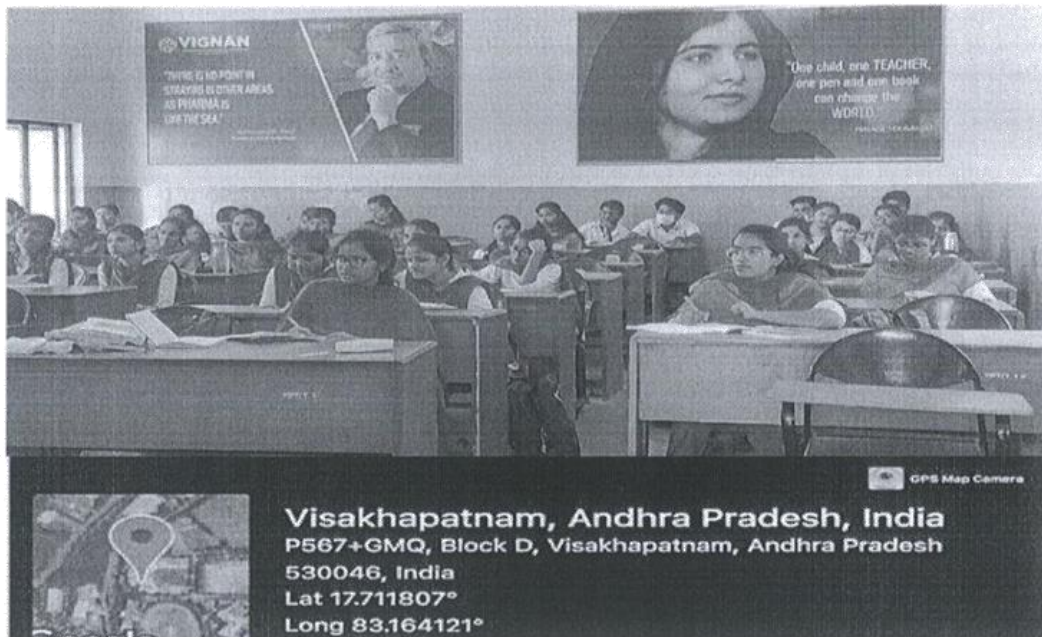


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Name of the Value added Course: **Critical Care Medicine**

Date: 8th to 14th October 2021

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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
8 th October 2021 9:30-12.30 PM & 2:00-4:00 PM	Critical Care Procedures, Monitoring, and Pharmacology-	5
9 th October 2021 9:30-12.30 PM & 2:00-4:00 PM	Critical care Cardiovascular Disease, Pulmonary Disease & Infectious Disease -	5
11 th October 2021 9:30-12.30 PM & 2:00-4:00 PM	Neurologic disease in the critically III	5
12 th October 2021 9:30-12.30 PM & 2:00-4:00 PM	Renal disease and Metabolic disorders in the critically III	5
13 th October 2021 9:30-12.30 PM & 2:00-5:00 PM	Administrative, Ethical, & psychological in Care of the Critically III	6
14 th October 2021 9:30-12.30 PM & 2:00-5:00 PM	Other Critical Care Disorders and Issues in Care of the Critically III	6
Total		32

R. Shymala
CO - ORDINATOR



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VALUE ADDED COURSE

on

Electrocardiogram (ECG) Interpretation & Study of Electrophysiology

SUMMARY REPORT

A Value Added Course for B.Pharmacy II Year Students was Organized by the Department of Pharmacology at Vignan Institute of Pharmaceutical Technology from 8.10.2021 to 14.10.2021. The Course was conducted on "*Electrocardiogram (ECG) Interpretation & Study of Electrophysiology*". The Resource Person for the Course was **Dr. K. Raj Kiran**, Professor and Principal of Sri Shivani College of Pharmacy. The Course was started on 8th October 2021 with the welcome note by the Course Coordinator **Mrs.V. Jhansi laxmi**, Assistant professor, Vignan Institute of Pharmaceutical Technology, She has also Introduced the Resource Person to students. The Course has Ended on 14th October 2021 with Concluding Remarks by the Resource Person. A total of 26 students Participated and Completed the Course. The overall feedback from the Participants Regarding the Course was Very Good.

Course Objective:

- This Course Emphasizes on Theoretical Aspects of Electrophysiology of Heart and Practical Knowledge on Recording of Electrocardiogram. It also Facilitate Better Understanding on Different Components of ECG as well as about Interpretation of ECG and Its Application For Identifying Various Cardiac Disorders.

Course Outcomes:

Upon Completion of the Course :

- Understand the Electrophysiology of Heart.
- Understand the Significance of ECG Recording.
- Understand Various Waves in the ECG .
- Develops Skill of Interpretation of Various Cardiovascular Conditions with the help of ECG.

Dr. Kiran

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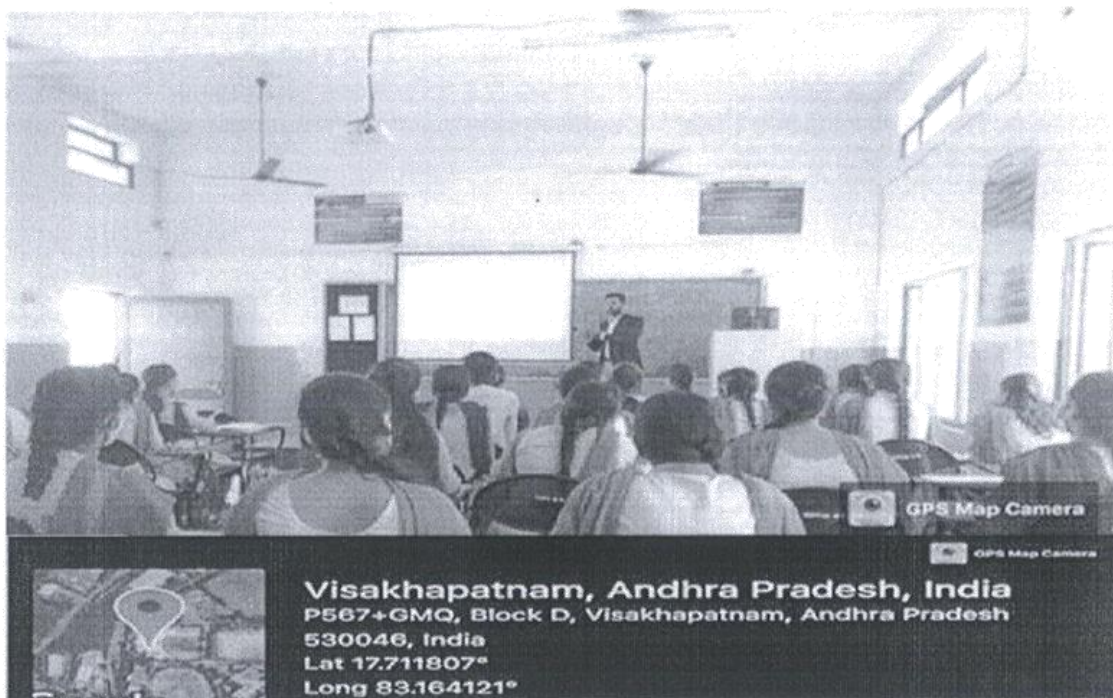
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Name of the Value added Course: **Electrocardiogram (ECG) Interpretation & Study of Electrophysiology**

Date: 8.10.2021 to 14.10 2021

4/10/2021



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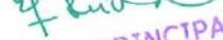
PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
8.10.2021 09:30 AM to 12:30 PM & 01:30 PM to 4:30 PM	Introduction : <ul style="list-style-type: none">Anatomy of heart .Electrophysiology of heart.Cardiac cycle .	6
9.10.2021 09:30 AM to 12:30 PM & 01:30 PM to 3:30 PM	Introduction to Electrocardiogram (ECG): <ul style="list-style-type: none">Normal Waves ECG.Correlation of cardiac cycle to the different waves of ECG.	5
11.10.2021 09:30 AM to 12:30 PM & 01:30 PM to 3:30 PM	Recording of ECG: <ul style="list-style-type: none">Procedure involved in Placing of different leads at different body parts to record ECG.Precautions during recording the ECG.	5
12.10.2021 9:30 AM to 12:30 PM & 01:30 PM to 3:30 PM	Study of the Normal ECG and interpretation of heart function. <ul style="list-style-type: none">To identify common and important heart rhythms.Determine the cardiac axisDevelop understanding of the different components of an ECG trace	5
13.10.2021 09:30 AM to 12:30 PM & 01:30 PM to 3:30 PM	Abnormalities of PQR waves in the ECG & its interpretation related to heart diseases <ul style="list-style-type: none">Understand atrial and ventricular ectopics.Identify, differentiate and appreciate the clinical significance of bundle branch blocks.	5
14.10.2021 09:30 AM to 12:30 PM & 01:30 PM to 3:30 PM	Abnormalities of ST wave in the ECG & its interpretation related to heart diseases <ul style="list-style-type: none">Identify Atrial FibrillationUnderstand The Significance Of T Wave Inversion	5
Total		31


CO-ORDINATOR


PRINCIPAL




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VALUE ADDED COURSE

on

Microbial Nanotechnology and Multidisciplinary Applications

SUMMARY REPORT

A Value Added Course for 2nd B. Pharmacy Students organized by the Department of Pharmaceutics at Vignan Institute of Pharmaceutical Technology from 08th October to 14th October 2021. The course was conducted on “**Microbial Nanotechnology and Multidisciplinary Applications**”. The resource person for the course is **Mr. B. Rama Rao, Associate Professor**, Vignan Institute of Pharmaceutical Technology, Andhra Pradesh. The course started on 13th October, 2021 with the welcome address by the coordinator, **Dr. S. Satya Lakshmi, VIPT**. It ended on 14th October, 2021 with concluding remarks by the source person. A total of 26 students participated and completed the course. The overall feedback from the participants was very good.

Course Objectives: This course will make the students aware of advantages of microbial nanotechnology compared to conventional methods, various approaches in the formulation of nanomicrobes, potential multidisciplinary applications of microbial nanotechnology.

Course Outcomes:

Upon completion of the course:

1. Understand the advantages of microbial nanotechnology
2. Explain various approaches to derive microbial nanoparticles.
3. Identify the hurdles associated while applying the nanotechnology.
4. Make use of microbial nanotechnology for multidisciplinary applications.

Y. Suresh



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Visakhapatnam, Andhra Pradesh, India

P567+JV6, Block D, Visakhapatnam, Andhra Pradesh 530046, India

Lat 17.711656°

Long 83.164386°

Name of the Value added Course: **Microbial Nanotechnology and Multidisciplinary**

Applications Date: 08th to 14th October 2021

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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
08 th October 2021 01:00PM to 05:00PM	Introduction	4
09 th October 2021 01:00PM to 05:00PM	Approaches	4
11 th October 2021 01:00PM to 07:00PM	Methods of microbial nano-formulations with their limitations	6
12 th October 2021 01:00PM to 07:00PM	Evaluation	6
13 th October 2021 01:00PM to 05:00PM	Difficulties associated	4
14 th October 2021 01:00PM to 07:00PM	Applications	6
Total		30 Hours

G. Sahyala
CO-ORDINATOR



G. Sahyala
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VALUE ADDED COURSE

on

Assessment of Laboratory Animals in Drug Discovery Process

SUMMARY REPORT

A Value Added Course for B.Pharmacy II Year Students was Organized by the Department of Pharmacology at Vignan Institute of Pharmaceutical Technology from 8.10.2021 to 14.10.2021. The Course was conducted on "*Assessment of Laboratory Animals in Drug Discovery Process*". The Resource Person for the Course was **Dr.M.Savitri**, Professor, Viswanadha Institute of Pharmaceutical Sciences, Visakhapatnam. The Course was started on 8th October 2021 with the welcome note by the Course Coordinator **Mrs.V. Jhansi lakshmi**, Assistant professor, Vignan Institute of Pharmaceutical Technology, She has also Introduced the Resource Person to students. The Course has Ended on 14th October 2021 with Concluding Remarks by the Resource Person. A total of 26 students Participated and Completed the Course. The overall feedback from the Participants Regarding the Course was Very Good.

Course Objective:

This Course mainly Emphasized on the Different Phases of the Drug Discovery Process, which include both Pre-Clinical and Clinical Trails. In Pre-Clinical Trails which utilizes different laboratory animals like Rats, Mouse, Dog and Guinea pig.

Course Outcomes:

Upon Completion of the Course :

- Understand different stages in drug discovery process.
- Explain Various Phases of Clinical Trails.
- Describe Guidelines for the use of Animals in Clinical Research.
- Analyse Various Animal Models in Drug Discovery.





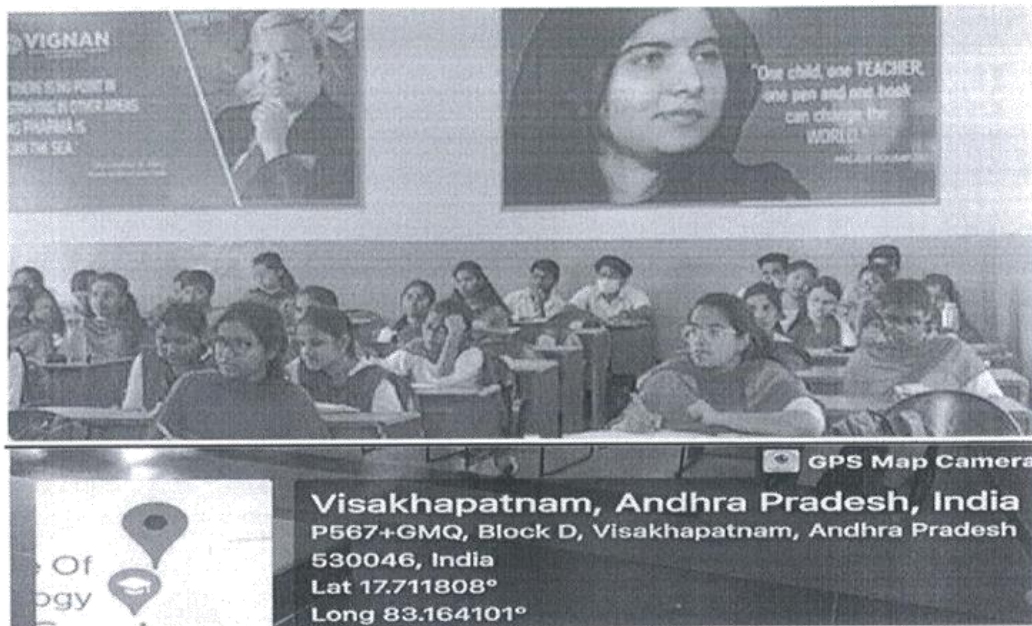
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Name of the Value added Course: *Laboratory Animals in Drug Discovery Process*

Date: 8.10.2021 to 14.10 2021

7. Suresh

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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
8.10.2021 09:30 AM to 12:30 PM & 01:30 PM to 4:30 PM	Introduction : Drug discovery process, Various phases of drug discovery.	5
9.10.2021 09:30 AM to 12:30 PM & 01:30 PM to 3:30 PM	Overview of All Phases in drug discovery & Development process: Discovery & Development, Preclinical Research, Clinical Drug Development Process, Post-Market Monitoring.	5
11.10.2021 09:30 AM to 12:30 PM & 01:30 PM to 3:30 PM	Preclinical Animal models: Introduction, Animal models used in Biological & functional studies, & Animal models used in disease reseach.	5
12.10.2021 9:30 AM to 12:30 PM & 01:30 PM to 3:30 PM	Ethical Guidelines for the Use of Animals in Research: About the guidelines, Ethics & Experiments on Animals & Guidelines	5
13.10.2021 09:30 AM to 12:30 PM & 01:30 PM to 3:30 PM	Types and Phases of Preclinical Trails: Preclinical studies, IND applications, & Phases of Clinical Trails	6
14.10.2021 09:30 AM to 12:30 PM & 01:30 PM to 3:30 PM	Animals Models in Drug Discovery: History of Animal Models in Clinical Research, The FDA and Animal Models, Genetically Engineered Models in Drug Discovery, Improving Drug Discovery Animal Models	6
Total		32

V. JY
CO-ORDINATOR

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VALUE-ADDED COURSE

on

Bioprospecting: The Search for Bioactive Lead Structures from Nature

SUMMARY REPORT

A Value-Added Course for B.Pharmacy 3rd Year Students was organized by the Department of Pharmacognosy and Phytochemistry at Vignan Institute of Pharmaceutical Technology from 21st to 26th February 2022. The course was conducted on "**Bioprospecting: The Search for Bioactive Lead Structures from Nature**". The resource person for the course is **Dr. Gana Manjusha K**, Associate Professor, Vignan Institute of Pharmaceutical Technology. She has experience to train students and industrial persons Bioprospecting: The Search for Bioactive Lead Structures. The course started on 21st February 2022 with the welcome address by the coordinator and introductory remarks by the Coordinator **Mrs D.Aruna Kumari** and the resource person. It ended on 26th February 2022 with concluding remarks by the resources person. A total of 27 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective: This course is designed to deliver students the basics of medicinal plant biotechnology. The students will understand the importance of herbal drugs, conventional plant breeding methods and invitro propagation of medicinal plants. The course is framed to make students gain knowledge about a need for biotechnology and gene technology for medicinal plants. Regular tests and Monitoring Activity with special attention to weak students has made this course deliverable to every student.

Course Outcomes:

Upon completion of the course, the student will be able to achieve the following outcomes:

- Understand *in-vitro* culture techniques exploited in plant breeding, preservation and propagation, as well as techniques used in the production of secondary metabolites.
- Explain Somatic embryogenesis and Protoplast Technology.
- Describe various Permanent In-Vitro Cultures


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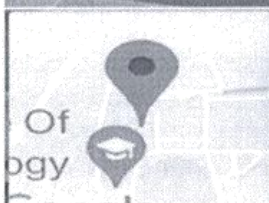
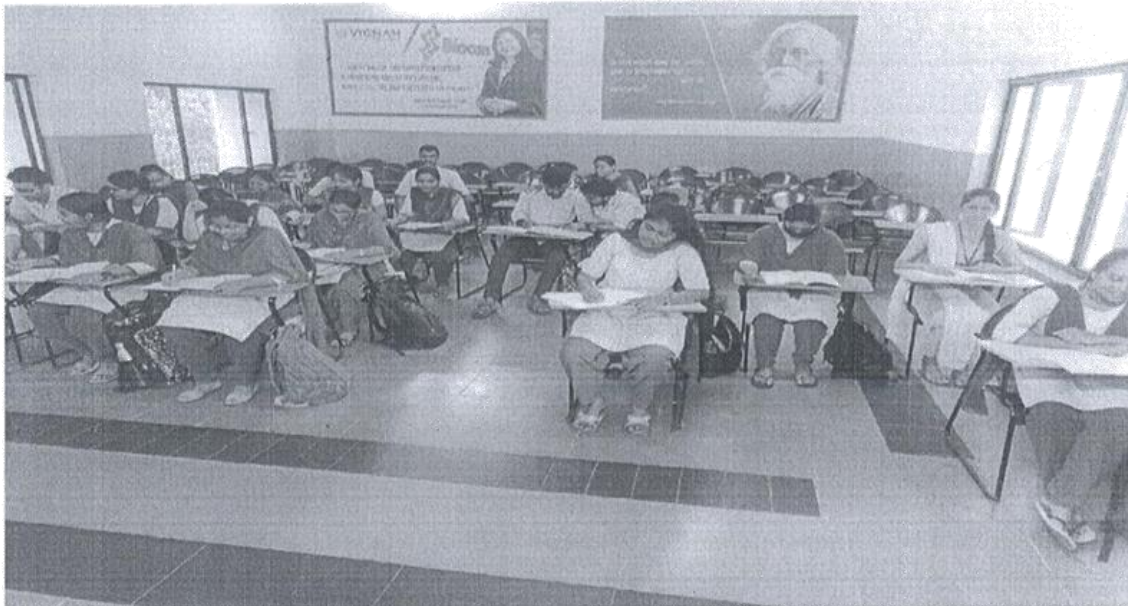
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530046, India

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Name of the Value added Course: **Bioprospecting: The Search for Bioactive Lead Structures from Nature**

Date: 21st to 26th February 2022

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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
21.02.2022 01:00 to 06:00 PM	Introduction to Global Regulatory Framework	5
22.02.2022 01:00 to 06:00 PM	The importance of bioactive compounds from Nature in drug development.	5
23.02.2022 01:00 to 07:00 PM	Major molecular targets of cells. (A) Bacterial cells; (B) animal cells. ER: endoplasmic reticulum	5
24.02.2022 01:00 to 06:00 PM	Interactions of secondary metabolites with biomembranes and membrane proteins. 1, A steroidal saponin; sarsaparilloside. 2, Ocimene (linear monoterpene). 3, Alpha-pinene (bicyclic monoterpene). 4, Cadinene (sesquiterpene). 5, Phyllocladene (diterpene). A: ion channel; B: transporter; C: membrane receptor	5
25.02.2022 01:00 to 06:00 PM	Specific interactions (ligand-receptor relationships) of secondary metabolites with proteins. 1, Canavaliine (non-protein amino acid). 2, Hyoscyamine (tropane alkaloid). 3, Lupanine (quinolizidine alkaloid).	5
26.02.2022 01:00 to 06:00 PM	The Utilization of Secondary Metabolites in Medicine	5
Total		30

CO-ORDINATOR

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VALUE ADDED COURSE on INTRODUCTION TO CORONA MANUFACTURING, SAFETY AND QUALITY CONTROL OF COVID-19 VACCINE

SUMMARY REPORT

A Value Added Course for III B. Pharmacy Students organized by the Department of Pharmaceutics at Vignan Institute of Pharmaceutical Technology from 21st February to 26th February 2022. The course was conducted on "Introduction to Corona Manufacturing, Safety and Quality Control of Covid-19 Vaccine". The resource person for the course is **Dr. P.V. Kamala Kumari, Professor**, Vignan Institute of Pharmaceutical Technology, Andhra Pradesh. The course started on 21st February, 2022 with the welcome address by the coordinator **Dr. S. Satya Lakshmi, VIPT**. It ended on 26th February, 2022 with concluding remarks by the resource person. A total of 27 students participated and completed the course. The overall feedback from the participants was very good.

Course Objectives: This course will make the students aware of various viral infections spreading, factors that support in spreading of viral infection, the pathogenesis. Students can understand the regulatory aspects and importance in maintenance of quality of corona vaccines.

Course Outcomes:

Upon completion of the course:

1. Understand the Sources of Viral Infections.
2. Explain Various Mechanisms to Spread the Infection.
3. Identify the Possible Preventive Measures.
4. Describe the Role of Regulatory Aspects in Vaccine Development.



g. Sathya K

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Name of the Value added Course: **Introduction to Corona Manufacturing, Safety and Quality Control of Covid-19 Vaccine**

Date: 21th to 26th February 2022



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
21 st February 2022 01:00PM to 05:00PM	Introduction	4
22 nd February 2022 01:00PM to 05:00PM	Sources of Respiratory Viral Infections	4
23 rd February 2022 01:00PM to 07:00PM	Pathogenesis	6
24 th February 2022 01:00PM to 07:00PM	Preventive Measures	6
25 th February 2022 01:00PM to 05:00PM	Formulation of Covid Vaccine	4
26 th February 2022 01:00PM to 07:00PM	Regulatory and Quality Aspects	6
Total		30 Hours

S. Sathya Lakshmi
CO-ORDINATOR

Y. Suresh
PRINCIPAL
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Y. Suresh
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VALUE ADDED COURSE

on

GLOBAL REGULATORY FRAMEWORK FOR HERBAL MEDICINE

SUMMARY REPORT

A Value-Added Course for B.Pharmacy 3rd Year Students was organized by the Department of Pharmacognosy and Phytochemistry at Vignan Institute of Pharmaceutical Technology from 21st to 26th February 2022. The course was conducted on "Global Regulatory Framework For Herbal Medicine". The resource person for the course is **Dr. P. Balakrishnaiah**, Professor, VIPT. He has experience training students and industrial persons in the Global Regulatory Framework. The system started on 21st February 2022 with the welcome address by the coordinator and introductory remarks by the Coordinator **Dr. Gana Manjusha K**, Associate Professor, VIPT. It ended on 26th February 2022 with concluding remarks by the resources person. A total of 27 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective: India is a significant source of herbal plants and medicines. There are substantial numbers of plants and herbs which are used as medicines and people prefer them due to fewer side effects. In India, herbal medicines are regulated by AYUSH, CDSCO (Central Drugs Standard Control Organization), AND D&C Act 1940 & 1945(amendment). About 8000 herbal medicines have been organized in AYUSH systems in INDIA.

Course Outcomes:

Upon completion of the course, the student will be able to achieve the following outcomes:

- Understand the role of plants as sources in preparing herbal formulations.
- Explain the role in regulating various medicinal plants by AYUSH and CDSCO
- Explain the importance of the D & C act 1940 and the Amendment 1945.



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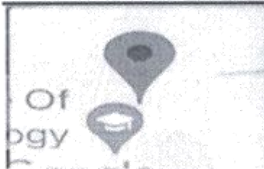
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Name of the Value added Course: **Global Regulatory Framework For Herbal Medicine**

Date: 21st to 26th February 2022

4.2.2022

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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
21 st February 2022 01:00 to 06:00 PM	Introduction to Global Regulatory Framework	5
22 nd February 2022 01:00 to 06:00 PM	Minimum requirements for assessment of safety of herbal medicines.	5
23 rd February 2022 01:00 to 06:00 PM	Minimum requirements for assessment of the efficacy of herbal medicines.	5
24 th February 2022 01:00 to 06:00 PM	Quality assurance of herbal medicinal products Guidelines related to Good Agricultural and Collection Practices (GACP) and Good Manufacturing Practices (GMP)	5
25 th February 2022 01:00 to 06:00 PM	Control of advertisements of herbal medicinal products	5
26 th February 2022 01:00 to 06:00 PM	Current Scientific Status and Challenges Ahead	5
Total		30

Ganesh Kumar
CO-ORDINATOR

Y. Sankar
PRINCIPAL
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VALUE ADDED COURSE on Advance Cardiac Life Support

SUMMARY REPORT

A Value-Added Course for IV B.Pharmacy Students was organized by the Department of Pharmacology at Vignan Institute of Pharmaceutical Technology from 18th to 23rd October 2021. The course was conducted on "*Advance Cardiac Life Support*". The resource person for the course is **Prof. P. Rajeshwara Rao**, Principal, Lydia college of Pharmacy, Ravulapalem. The course started on 18th October 2021 with the welcome address by the coordinator **Dr.G.Vasantha**, who introduced the resource person. It ended on 23rd October 2021 with concluding remarks by the resource person. A total of 24 students participated and completed the course. The overall feedback from the participants was very good.

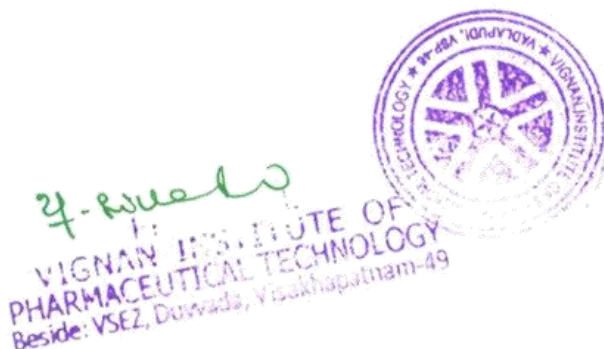
Course Objective:

This course will help the students to understand the basic concepts of cardiac life support, determining the level of awareness of Basic Life Support (BLS), develop the knowledge and skills to assess and stabilization of patients for transport and assess the importance of Cardio Pulmonary Resuscitation (CPR) and establish the role of Advanced Cardiac Life Support (ACLS)

Course Outcomes:

Upon completion of the course, the student will be able to achieve the following outcomes:

1. Identify the signs and symptoms associated with a patient in shock.
2. Identify a patient in cardiac arrest and to describe the components of high performance CPR.
3. Identify a patient with under the influence of a drug of abuse or a toxicologic ingestion.
4. Identify the symptoms associated with the most common environmental emergencies





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Visakhapatnam, Andhra Pradesh, India

P567+QRH, Block D, Visakhapatnam, Andhra Pradesh

530046, India

Lat 17.711826°

Long 83.16411°

Name of the Value added Course: **Advance Cardiac Life Support**

Date: **18th to 23rd October 2021**

Y. Rishabh
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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
18 th October 2021 1.00PM-6.00PM	Introduction to Cardiac Life Support	5
19 th October 2021 1.00PM-6.00PM	Awareness of Basic Life Support (BLS); Role and importance of Cardio Pulmonary Resuscitation (CPR)	5
20 th October 2021 1.00PM-6.00PM	Advanced Cardiac Life Support (ACLS)	5
21 st October 2021 1.00PM-6.00PM	Recognition and early management of respiratory and cardiac arrest	5
22 nd October 2021 1.00PM-6.00PM	Related Pharmacology on Cardiac Drugs	5
23 rd October 2021 1.00PM-6.00PM	Recognition and Early Management of Respiratory and Cardiac Arrest	5
Total		30 Hrs

CO-ORDINATOR



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VALUE ADDED COURSE

on

Understanding Dementia

SUMMARY REPORT

A Value-Added Course for IV B.Pharmacy Students was organized by the Department of Pharmacology at Vignan institute of Pharmaceutical Technology from 18th to 23rd October 2021. The course was conducted on “**Understanding Dementia**”. The resource person for the course is **Dr. K. Eswar Kumar, Associate Professor, A.U College of Pharmacy**. The course started on 18th October 2021 with the welcome address by the coordinator **Dr. Vasantha, VIPT**, who introduced the resource person. It ended on 23rd October 2021 with concluding remarks by the resource person. A total of 23 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective:

This course will help students to understand the concepts of dementia and help the students understand basics of nervous system anatomy and function, followed by a discussion of the diseases that cause dementia, current dementia research, living with dementia and future directions.

Course Outcomes:

Upon completion of the course, the student will be able to achieve the following outcomes:

1. Understand the difference between normal ageing and dementia
2. Risk factors for dementia
3. Domains of dementia
4. Diagnosis of dementia
5. Younger onset dementia
6. Stages of dementia and focusing support
7. Medical management


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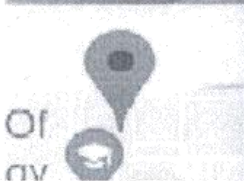
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Visakhapatnam, Andhra Pradesh, India

P667+GMQ, Block D, Visakhapatnam, Andhra Pradesh

530048, India

Lat 17.71°80'1"

Name of the Value added Course: **Understanding Dementia**

Date: **18th to 23rd October 2021**

Y. Ravi

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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
18 th October 2021 1.00PM-6.00PM	Introduction to Brain Difference between Normal Ageing and Dementia	5
19 th October 2021 1.00PM-6.00PM	Stages of Dementia and Focusing Support	5
20 th October 2021 1.00PM-6.00PM	Factors that affect a Person's Experience of Living with Dementia	5
21 st October 2021 1.00PM-6.00PM	Alzheimer's Disease Vascular Dementia	5
22 nd October 2021 1.00PM-5.00PM	Dementia with Lewy bodies Fronto -Temporal Dementia	5
23 rd October 2021 1.00PM-6.00PM	Medical Management	5
Total		30 Hrs


CO-ORDINATOR


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VALUE-ADDED COURSE

on

NEUROCARE MEDICINE

SUMMARY REPORT

A Value-Added Course for B.Pharmacy IV Year Students was organized by the Department of Pharmacology at Vignan institute of Pharmaceutical Technology from 18th to 23rd October 2021. The course was conducted on "**Neurocare Medicine**". The resource person for the course is **Dr. K. Raj Kiran, Principal, Sri Sivani College of Pharmacy, Srikakulam**. The course started on 18th October 2021 with the welcome address by the coordinator **Mr. KRVS. Chaitanya** and introduced the resource person. It ended on 23rd October 2021 with concluding remarks by the resource person. A total of 23 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective:

This course emphasizes to promote the practice, education and research specifically related to the concept of quality care for better outcomes in patients with neurological diseases & management of Neurological disorders, Airway & breathing, neurological evaluation, neuropharmacology, neuroradiology, and other neurological disorders.

Course Outcomes:

Upon completion of the course, the student will be able to achieve the following outcomes:

- Understand the ABCDE Principles & approaches of Airway & Breathing.
- Understand the basics of Neuropharmacology and neuroradiology.
- Understand the Concept of Neurological Disorders.
- Understand the management of Neuroemergencies.

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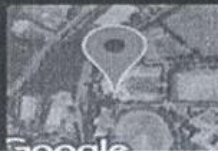
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GPS Map Camera



Visakhapatnam, Andhra Pradesh, India

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Lat 17.711791°

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Name of the Value added Course: **Neurocare Medicine**

Date: 18th to 23rd October 2021



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
18 th October 2021 9:30-12.30 PM & 2:00-4:00 PM	Introduction: Introduction of neurocare medicine, airway and breathing, neurological evaluation, neuropharmacology and management of Neuroemergencies	5
19 th October 2021 9:30-12.30 PM & 2:00-4:00 PM	Airway and Breathing: Introduction, Evidence supporting the ABCDE approach, ABCDE principles & History of ABCDE approach	5
20 th October 2021 9:30-12.30 PM & 2:00-4:00 PM	Focused Neurological evaluation: Introduction, Issues of Concern & Clinical significance like Glasgow Coma Scale, Mental status, cranial nerves, sensory exam, motor exam & gait.	5
21 st October 2021 9:30-12.30 PM & 2:00-4:00 PM	Neuropharmacology: History and overview of Neuropharmacology, Neurochemical interaction, Molecular Neuropharmacology like GABA, Dopamine and Serotonin, Behavioral Neuropharmacology.	5
22 nd October 2021 9:30-12.30 PM & 2:00-6:00 PM	Basics of Neuroradiology: Introduction of Cranial Anatomy, Vascular diseases of brain, Head Trauma, Infectious and non-infectious inflammatory diseases of brain, neurodegenerative diseases & congenital disorders of brain.	6
23 rd October 2021 9:30-12.30 PM & 2:00-6:00 PM	Approaches to patients with Neurological disorders & Management of Neuroemergencies: Introduction and Management of Neurological disorders like Epilepsy, Parkinsonism and Involuntary movement, Dementia & Degenerative disorders, Multiple Sclerosis, Head Injuries, Spinal cord disorders & also management of various disorders like CNS & PNS.	6
Total		32


CO-ORDINATOR



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Value Added Course on Biomedical Visualization SUMMARY REPORT

A Value-Added Course for Pharm.D 1st Year Students was organized by the Department of Pharmacy Practice at Vignan Institute of pharmaceutical Technology 23rd February to 03rd March 2022. The course was conducted on "**Biomedical Visualization**". The resource person for the course is **Dr. A. Satya Sai Srinivas**, Assistant Professor, Vignan Institute Of Pharmaceutical Technology, Visakhapatnam, Andhra Pradesh. The course started on 23-02-2022 with the welcome address by the coordinator and introductory remarks by **Dr. G. Urmilla, Assistant Professor, VIPT**. It ended on 03-03-2022 with concluding remarks by the resource person. A total of 24 students participated and completed the course. The overall feedback from the participants was very good.

Course Objectives: This course will enable you to explore the structure and function of the human body including terminology used. It showcases visualization techniques available using technology to image and display data related to the body and biological processes. It also provides training in the creation of animations, and examines the applicability of different types of reality.

Course Outcomes:

Upon completion of the course,

1. Define and describe anatomical terminology related to the human body.
2. Describe the various body systems, what comprises them, and how they relate to function.
3. Create your own 3D modeling and animations using industry standard, open-source software (Blender).
4. Analyze various visualization techniques and methods, and be able to apply them to areas of biomedical science



4. Srinivas
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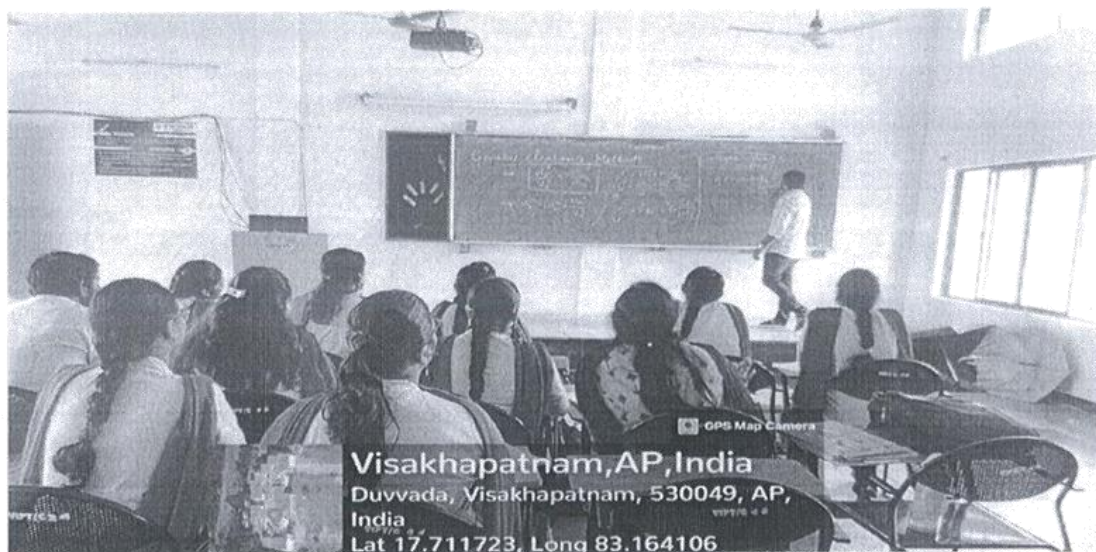
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Photograph:



Visakhapatnam, AP, India
Duvvada, Visakhapatnam, 530049, AP,
India
Lat 17.711723, Long 83.164106

Name of the Value added Course: **Biomedical Visualization**

Date: 23rd February to 03rd March 2022



4/2/22
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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
23.02.2022 10:30AM to 12:30PM & 02:00 to 05:00PM	Introduction to Visualisation and the Human Body Human Structure, Muscle Movements	5
24.02.2022 10:30AM to 12:30PM & 02:00 to 05:00PM	Anatomical Terminology Terminology Tables, Body Systems, The Musculoskeletal System	5
25.02.2022 10:30AM to 12:30PM & 02:00 to 05:00PM	3D Models and Animation Modelling Techniques in Blender, Modelling Practical in Blender, Final Touches in Modelling: Modifiers	5
26.02.2022 10:30AM to 12:30PM & 02:00 to 05:00PM	Applications of 3D Models and Animations Introduction to 3D Models and Animation, Blender Keyboard Shortcuts and Terminology	5
28.02.2022 10:30AM to 12:30PM & 02:00 to 05:00PM	Segmentation of Medical Imaging	5
02.03.2022 10:30AM to 12:30PM & 02:00 to 05:00PM	Virtual Reality and Augmented Reality Mixed Reality in Minimally Invasive Surgery,	5
03.03.2022 10:30AM to 12:30PM & 02:00 to 05:00PM	Applications of Virtual Reality Challenges of Realities, Endoscopic Navigation and Augmented Reality,	5
Total		35Hrs


CO-ORDINATOR


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Value Added Course on Interpretation of Vital Signs SUMMARY REPORT

A Value-Added Course for Pharm.D 2nd Year Students was organized by the Department of Pharmacy Practice at Vignan institute of pharmaceutical technology 15th to 22nd November 2021. The course was conducted on **"INTERPRETATION OF VITAL SIGNS"**. The resource person for the course is **Dr. G.Urmila**, Assistant Professor, Vignan Institute Of Pharmaceutical Technology, Visakhapatnam, Andhra Pradesh. The course started on 15-11-2021 with the welcome address by the coordinator and introductory remarks by **Dr. Wasim Feroz**, Assistant Professor, VIPT. It ended on 22-11-2021 with concluding remarks by the resource person. A total of 21 students participated and completed the course. The overall feedback from the participants was very good.

Course Objectives: The purpose of this course to demonstrate appropriate techniques for measuring vital signs in yourself and others for clinical evaluation of patients.

Course Outcomes:

Upon completion of the course:

1. Assessment of vital signs by clinicians.
2. Summarize Better understanding of systolic and diastolic blood pressure, mean arterial pressure, and assessing blood pressure accurately.
3. Explore the neurological pathways associated with pain, and the difference between pain tolerance and pain threshold.

4. Suresh
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Photograph:



Name of the Value added Course: **INTERPRETATION OF VITAL SIGNS**

Date: 15th to 22nd November 2021

Y. Anurag

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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
15.11.2021 11AM to 1:00PM & 02:00 to 05:00PM	Introduction to vital signs, clinical significance, major abbreviations and definitions, variations in vital signs.	05
16.11.2021 11AM to 1:00PM & 02:00 to 05:00PM	Interpretation of Pulse/Heart Rate Definitions, normal values, tachycardia, bradycardia, measurement techniques, interpretation.	05
17.11.2021 11AM to 1:00PM & 02:00 to 05:00PM	Interpretation of Blood Pressure Blood pressure definition, normal ranges, instruments, measurement techniques, hypertension, hypotension, disorders.	05
18.11.2021 11AM to 1:00PM & 02:00 to 05:00PM	Interpretation of Metabolism Definition, disorders, complete blood picture, lipid profile tests, kidney function tests and interpretation.	05
19.11.2021 11AM to 1:00PM & 02:00 to 05:00PM	Interpretation of Temperature Definition, different homeostatic mechanisms, hyperthermia, hypothermia, disorders and interpretation.	05
20.11.2021 11AM to 1:00PM & 02:00 to 05:00PM	Interpretation of Respiration Rate Definition, respiratory capacities, instruments, pulmonary function tests and interpretation.	05
22.11.2021 11AM to 1:00PM & 02:00 to 05:00PM	Interpretation of Pain Pain pathways, definition of pain, pain assessment scales and interpretation	05
Total		

David Feloy

CO-ORDINATOR



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Value Added Course

on

SCIENCE OF STEM CELLS

SUMMARY REPORT

A Value-Added Course for Pharm.D 3rd Year Students was organized by the Department of Pharmacy Practice at Vignan institute of pharmaceutical technology 01st to 10th December 2021. The course was conducted on "**Science of Stem Cells**". The resource person for the course is **Mr. M. Vinod Kumar**, Assistant Professor, Vignan Institute of Pharmaceutical Technology, Visakhapatnam, Andhra Pradesh. The course started on **01.12.2021** with the welcome address by the coordinator and introductory remarks by **Dr. Wasim Feroz**, Assistant Professor, VIPT. It ended on **10.12.2021** with concluding remarks by the resource person. A total of 27 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective: This course will explore the history and basic biology of stem cells, learn about new research techniques, and find out how stem cells could lead to cures for diseases and to individualized medicine

Course Outcomes:

Upon completion of the course,

- List and compare different types of stem cells;
- Describe the stem cell niche and its role on stem cell regulation;
- Explain stem cell differentiation in vivo and in vitro;
- Summarize different types of pluripotent stem cells and how they are induced;
- Analyze key experiments that define pluripotency;

M. Vinod Kumar

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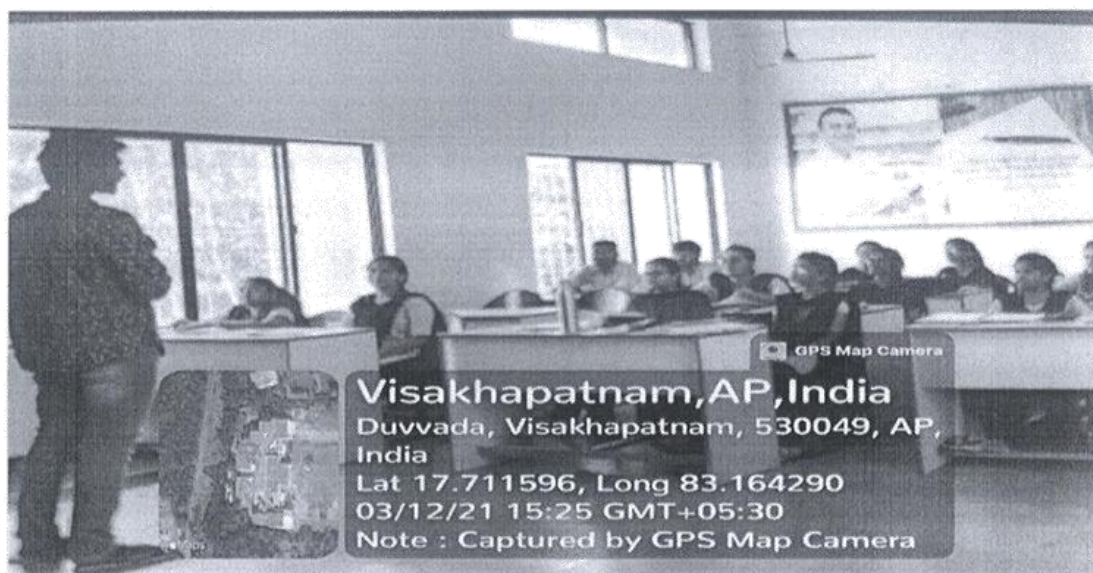
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Name of the Value added Course: **SCIENCE OF STEM CELLS**

Date: 01st to 10th December 2021

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PROGRAM SCHEDULE

Date & Time	Topic	No. of Hours
01.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Introduction to Stem Cells history of stem cells, basic biology of stem cells and cancer cells	05
02.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	How Do Stem Cells Work? Using Stem Cells to Study Disease, Using Stem Cells to Treat Disease	05
04.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Characterizing stem cells Morphological features, characteristics, formation of new cells..	05
06.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Pluripotent stem cells Definition, morphological characters, variations, formation, storage and significance of pluripotent stem cells.	05
07.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Cell differentiation and growth Cell differentiation procedures, growth factors involved, hypertrophy and growth of the stem cells	05
08.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Regeneration, wound healing & Cancer Regeneration physiology involved in stem cells, their application in treatment of various diseases like cancer and wound healing.	05
10.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Ethical guidelines involved in stem cell research, oncotherapeutics using stem cells	05
Total		35Hrs

Wahim Felen

CO-ORDINATOR



Y. Suresh
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Y. Suresh
PRINCIPAL

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Value added course on “CLINICAL DATA MANAGEMENT” SUMMARY REPORT

A Value-Added Course for Pharm.D 4th Year Students was organized by the Department of Pharmacy Practice at Vignaninstitute of pharmaceutical technology 13th to 20th December 2021. The course was conducted on “CLINICAL DATA MANAGEMENT”. The resource person for the course is **Dr .M.KrishnaChaitanya**, Assistant Professor, Vignan Institute of Pharmaceutical Technology, Visakhapatnam, Andhra Pradesh. The course started on **13.12.2021** with the welcome address by the coordinator **Mr. M. Vinod Kumar**, Assistant Professor, VIPT. It ended on **20.12.2021** with concluding remarks by the resource person. A total of 19 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective: This course will provide insight into the use of health care data including an overview of best practices and the practical realities of obtaining useful information from digital health systems via the understanding of the fundamental concepts of health data analytics.

Course Outcomes:

Upon completion of the course, the student will be able to achieve the following outcomes:

1. Identify digital health technologies, health data sources, and the evolving roles of health workforce in digital health environment.
2. Use health data and basic data analysis to inform and improve decision making and practice.
3. Apply effective methods of communication of health data to facilitate safe and quality care.



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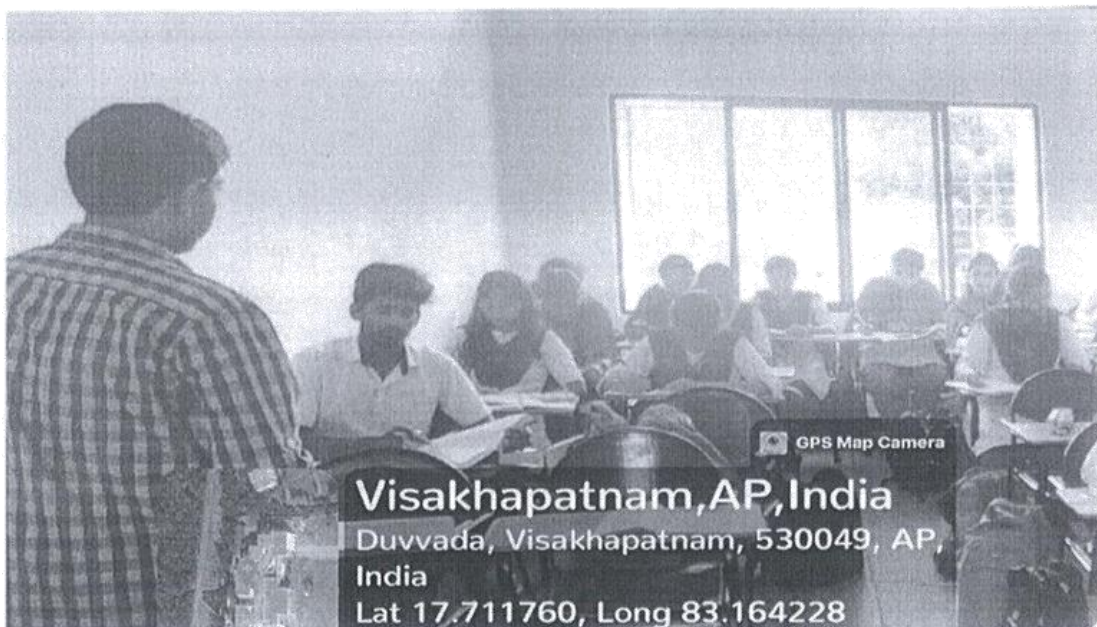
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Visakhapatnam, AP, India

Duvvada, Visakhapatnam, 530049, AP,
India

Lat 17.711760, Long 83.164228

Name of the Value added Course: **CLINICAL DATA MANAGEMENT**

Date: 13st to 20th December 2021

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PROGRAM SCHEDULE

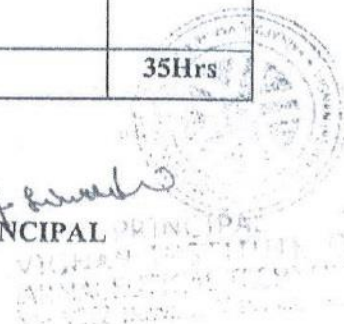
Date& Time	Topic	No. of Hours
13.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	An introduction to digital health Basic concepts in clinical research, Research Data Planning, Approaches to Data Collection	05
14.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Role of health data Data collection methods, data sampling methods, storage of data	05
15.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Interpret health data - turn information into new insights, graph generation, table generations, types of schematics used in clinical care setting.	05
16.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Sharing data into practice Application of data into research, results interpretation, sharing the data , execution of informatics.	05
17.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Tools for CDM Electronic data capture fundamentals, different softwares and databases and monitoring systems used in clinical data management.	05
18.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Integrating data into practice Different integration procedures, applications and applications of data	05
20.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Conclusion and Assessment Data management and significance of clinical data management in clinical trials. Assessment of the program	05
Total		35Hrs

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CO-ORDINATOR



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ValueAdded Course on “FUNDAMENTALS OF MEDICAL CODING” SUMMARY REPORT

Value-Added Course for Pharm.D 5TH Year Students was organized by the Department of Pharmacy Practice at Vignan institute of pharmaceutical technology 20th to 28th December 2021. The course was conducted on “FUNDAMENTALS OF MEDICAL CODING”. The resource person for the course is **Dr. WASIM FEROZ**, Assistant Professor, Vignan Institute of Pharmaceutical Technology, Visakhapatnam, Andhra Pradesh. The course started on **20.12.2021** with the welcome address by the coordinator and introductory remarks by **Ms. R. Syamala**, Assistant Professor, VIPT. It ended **28.12.2021** with concluding remarks by the resource person. A total of 24 students participated and completed the course. The overall feedback from the participants was very good.

Course Objectives: The course is framed to make students gain knowledge about use of healthcare data, including an overview of best practices and the practical realities of obtaining useful information from digital health systems via the understanding of the fundamental concepts of health data analytics.

Course Outcomes:

Upon completion of the course, the student will be able to achieve the following outcomes:

- o Identify crucial roles of the Physician Documentation in the coding process. Identify code able services.
- o Accurately utilize ICD Codes.
- o Perform hospital outpatient/inpatient coding and physician practice coding.

4 sheets
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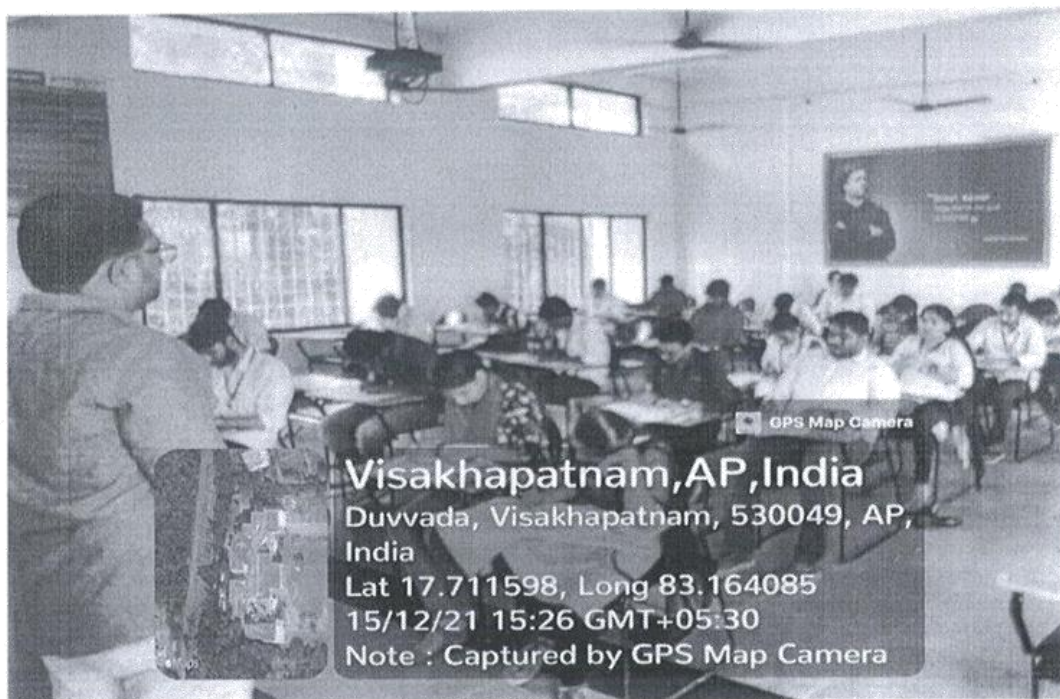
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Duvvada, Visakhapatnam, 530049, AP,
India

Lat 17.711598, Long 83.164085

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Note : Captured by GPS Map Camera

Name of the Value added Course: **FUNDAMENTALS OF MEDICAL CODING**

Date: 20th to 28th December 2021

Y. Suresh

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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
20.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Introduction to Medical Coding, Basics of Anatomy and Physiology	05
21.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Medical Coding and terminologies in association with Diseases	05
22.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	International Classification of Diseases (ICD). Definitions, classification, different codes	05
23.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Healthcare Common Procedure Coding System (HCPCS). Data bases, procedures, guidelines, recording data	05
24.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Evaluation and Management Guidelines for Medical coding professionals. Evaluation methods, medical codes used and input of data	05
27.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Radiology and Anaesthesia Guidelines for Medical coding professionals. Anesthesia codes and terminologies, major guidelines and surgeries	05
28.12.2021 11AM to 1:00PM & 02:00 to 05:00PM	Pathology and Laboratory and Medicine Services and Procedures Guidelines for Medical coding professionals	05
Total		35Hrs

R. Sannala
CO-ORDINATOR

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VALUE ADDED COURSE on REGULATORY AUTHORITIES IN PHARMA SECTOR

SUMMARY REPORT

A Value Added Course for 1st Year Students of M. Pharmacy was organized by the Department of Pharmaceutics at Vignan Institute Of Pharmaceutical Technology from 01st to 09th February 2022. The course was conducted on “REGULATORY AUTHORITIES IN PHARMA SECTOR”. The resource person for the course is **Dr. M. Trinadha Rao**, Associate Professor, Vignan Institute of Pharmaceutical Technology, Visakhapatnam. The course started on 01st February 2022 with the welcome address by the coordinator and introductory remarks by the **Ms. U. Bhavani**, Assistant Professor, VIPT. It ended on 09th February 2022 with concluding remarks by the resources person. A total of 9 students participated and completed the course. The overall feedback from the participants was very good.

Course Objectives: It helps students to learn in detail on the regulatory requirements, documentation requirements, and registration procedures for marketing the drug products.

Course Outcomes:

Upon completion of the course, the student will be able to achieve the following outcomes:

1. They will Know the regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals
2. They will Know the regulatory approval process and their registration in Indian and international markets



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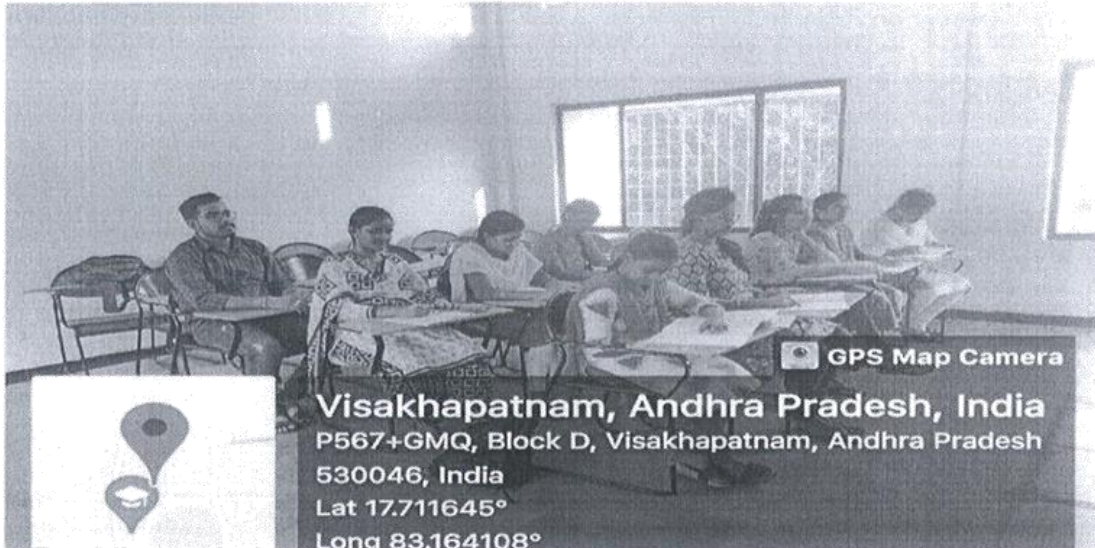
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GPS Map Camera

Visakhapatnam, Andhra Pradesh, India

P567+GMQ, Block D, Visakhapatnam, Andhra Pradesh

530046, India

Lat 17.711645°

Long 83.164108°

Name of the Value added Course: **REGULATORY AUTHORITIES IN PHARMA SECTOR**

Date: 01st to 09th February 2022

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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
01 st Feb 2022 01:00 to 05:00PM	Overview of regulatory authorities : Introduction, history and functions of regulatory authorities	4
02 nd Feb 2022 01:00 to 05:00PM	Organization of regulatory authorities: Organization, Constitution and responsibilities	4
03 rd Feb 2022 01:00 to 06:00PM	Regulatory authorities of India: Central Drugs Standard Control Organization (CDSCO), Central Drugs Testing Laboratories (CDTL)	5
04 th Feb 2022 01:00 to 06:00PM	Regulatory authorities of United States : Food and Drug Administration (FDA), center for drug evaluation and research	5
05 th Feb 2022 01:00 to 05:00PM	Regulatory authorities of European union like European medicinal agency	4
07 th Feb 2022 01:00 to 05:00PM	Regulatory authorities of Australia like Australian resister of Therapeutic Goods Administration (TGA)	4
08 th Feb 2022 01:00 to 05:00PM	Regulatory authorities of Japan PMDA (Pharmaceuticals and Medical Devices Agency) is Japanese regulatory agency, working together with Ministry of Health, Labour and Welfare.	4
09 th Feb 2022 01:00 to 06:00PM	Regulatory authorities Of other countries like like: Canada (Health product and Food Branch inspectorate of Canada), UK(Medicines and Healthcare Products Regulatory Agency), CHINA(State Food and Drug Administration) Etc	5
Total		35

V. Bharani
CO-ORDINATOR

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VALUE ADDED COURSE

on

Analytical Quality by Design (AQbD) in Pharmaceutical Development

SUMMARY REPORT

A Value added course for M.Pharmacy 1st Year Students of Pharmaceutical Analysis was organized by the Department of Pharmaceutical Analysis at Vignan Institute of Pharmaceutical Technology from 01.02.22 to 09.02.22. The course was conducted on "*Analytical Quality by Design (AQbD) in Pharmaceutical Development*". The resource person for the course is **Mr. K. Varaprasada Rao**, Associate Professor, Department of Pharmaceutical Analysis, Vignan Institute of Pharmaceutical Technology, Duvvada, Visakhapatnam, A.P, India. The course started on 1st February 2022 with the welcome address by the co-ordinator **Mr. K B R Babu**, Assistant Professor, VIPT. It ended on 9th February 2022 with concluding remarks by the resource person. A total of 8 students participated and completed the course. The overall feedback from the participants was very good.

Course Objectives:

To train the students on Quality by Design (QbD) for Analytical Methods in the Pharmaceutical Industry where they will acquire information on developing methods via QbD principles which include enhanced understanding of risk factors that may lead to poor method robustness, and helping to ensure that the method meets its intended performance requirements throughout the (product/method) lifecycle. Certification will be provided after successful completion of the course.

Course Outcomes:

Upon completion of the course, the student will be able to achieve the following outcomes:

- Understand the Principles of Analytical Quality by Design.
- Identify the Measurement Factors.
- Perform Risk Assessment.
- Design of Experiments.

4/2/2022

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Name of the Value added Course: Analytical Quality by Design (AQbD) in Pharmaceutical Development

Date: 01.02.22 to 09.02.22



Y. Subudh
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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
01.02.2022; 9:30-12.30 PM	Introduction	5
01.02.2022; 2:00-4:00 PM	Method Performance Requirements	
02.02.2022; 9:30-12.30 PM & 2:00-4:00 PM	Factors for Identifying a Measurement Technique	5
03.02.2022; 9:30-12.30 PM & 2:00-4:00 PM	Reversed-Phase Method Development Workflow	5
04.02.2022; 9:30-12.30 PM	Risk Assessments	5
05.02.2022; 2:00-4:00 PM	Design of Experiments	5
07.02.2022; 9:30-12.30 PM & 2:00-4:00 PM		
08.02.2022; 9:30-12.30 PM & 2:00-4:00 PM	Method Verification	5
09.02.2022; 9:30-12.30 PM & 2:00-4:00 PM	Continuous Monitoring	5
Total		35

K. Babu

CO - ORDINATOR

Y. Siva
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VALUE-ADDED COURSE on Cancer Related Immunotherapy

SUMMARY REPORT

A Value-Added Course for M.Pharmacy Ist Year Students was organized by the Department of Pharmacology at Vignan institute of Pharmaceutical Technology from 01st February, 2022 to 09th February, 2022. The course was conducted on "**Cancer related immunotherapy**". The resource person for the course is **Dr. G.Vasantha**, Associate Professor, Department of Pharmacology, Vignan Institute of Pharmaceutical Technology. The course started on 01st February 2022 with the welcome address by the coordinator **Mrs.V.Jhansi Lakshmi** and introduced the resource person. It ended on 09th February, 2022 with concluding remarks by the resource person. A total of 07 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective:

- To describe basics of immune- oncology & various therapies and vaccines.
- To Understand how immune cells recognize and kill cancer cells, and what we can do to enhance their ability to fight cancer.

Course Outcomes:

Upon completion of the course, the student will be able to achieve the following outcomes:

- Describe mechanisms of the immune response against cancer cells and how these responses are regulated during cancer development and progression.
- Describe the principles underlying chimeric antigen receptor transduced T cells (CAR-T cells) and T cell receptor (TCR)-transduced T cells and their efficacy in the treatment of leukemias and other cancers.
- Understand the biology of immune checkpoint pathways and checkpoint blockade therapy for solid tumors, the development of biomarkers to predict therapeutic responses, and the potential for combination therapies.
- Understand the potential of emerging strategies for cancer immunotherapy.

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530046, India

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Long 83.164099°

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Name of the Value added Course: **Cancer Related Immunotherapy**

Date: 01/02/22 to 09/02/22

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Date& Time	Topic	No. of Hours
01/02/22 10:00 AM to 12:00 PM & 2:00-4:00 PM	Overview of Immuno-oncology: Basic principles of tumour immunology, Immune Checkpoint Blockade, Disease specific treatment and outcomes.	4
02/02/22 10:00 AM to 12:00 PM & 2:00-4:00 PM	Basic Tumor Immunology: Introduction to Basic Sciences, Human Tumor Antigens Recognized by T Lymphocytes, Systems Biology of T Cells, Activation of CD4 ⁺ T Lymphocytes, Immunogenic Cell Death and Cancer.	4
03/02/22 10:00 AM to 12:00 PM & 2:00-4:00 PM	Immune Checkpoint Blockade: Treatment of various types of cancer includes Breast cancer, Bladder cancer, Cervical cancer, Liver cancer etc., and its side effects.	4
04/02/22 9:30-12.30 PM & 2:00-4:00 PM	Other approaches (Cytokines, Vaccines & Immune cell engagers	5
05/02/22 9:30-12.30 PM & 2:00-4:00 PM	Oncolytic Viruses and Intralesional Therapy: Structure, function, and immunogenic cell death, Modern oncolytic viruses, Advanced Therapy Access Program (ATAP) & Use of oncolytic viruses in hematologic malignancies	5
07/02/22 9:30-12.30 PM & 2:00-4:00 PM	CAR T and Other Novel Therapies: Introduction, CAR Structure, Non-traditional CAR-T therapy target antigens, and limitations CAR T	5
08/02/22 9:30-12.30 PM & 2:00-4:00 PM	Implementing Cancer immunotherapy in Clinical practice: Role of tumour antigens in cancer immunotherapy, cancer immunotherapeutic approaches and vaccines	5
09/02/22 9:30-12.30 PM	Regulatory aspects of biological therapy of cancer: Regulatory considerations of therapeutic cancer vaccines, gene therapy and combination of immunotherapies	3
Total		35

V. Jy
CO - ORDINATOR

Principal
PRINCIPAL



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VALUE ADDED COURSE On APPLICATION OF 3D PRINTING IN PHARMACEUTICAL SECTOR SUMMARY REPORT

A Value Added Course for M. Pharmacy Students organized by the Department of Pharmaceutics at Vignan Institute of Pharmaceutical Technology from 6th November to 14th November 2021. The course was conducted on "Application of 3D printing in Pharmaceutical sector". The resource person for the course is **Dr. G. Chandra Sekhara Rao, Professor, VIPT, Duvvada, Visakhapatnam**. The course started on 6th November 2021 with the welcome address by the coordinator **Mr. P. N. Mallikarjun, Associate Professor** and introduced the resource person. It ended on 14th November 2021 with concluding remarks by the resources person. A total of 32 students participated and completed the course. The overall feedback from the participants was very good.

Course Objectives:

To make the students understand the advances in pharmaceutical product development and newer drug product manufacturing techniques. The course is framed to learn novel approaches in product manufacturing. This course makes them successful professionally and also fulfils their endeavours.

Course Outcomes:

At the end of the course the students will be able to:

- Understand the 3D technology in pharma industry
- Advances in pharmaceutical product manufacturing
- Applications of 3D printing



G. Chandra Sekhara Rao
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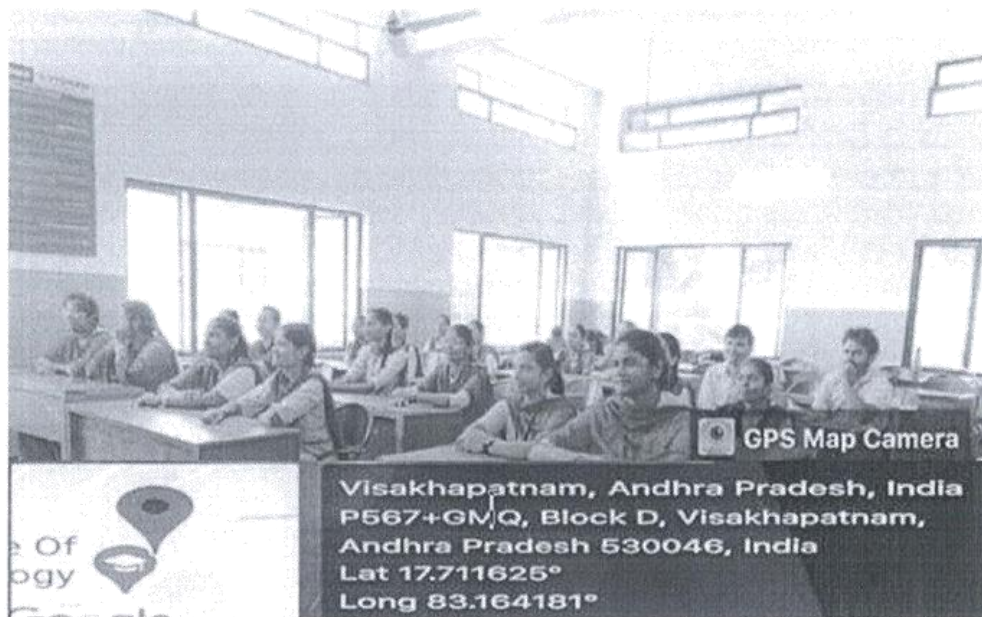
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Andhra Pradesh 530046, India
Lat 17.711625°
Long 83.164181°

Name of the Value added Course: **Application of 3D printing in
Pharmaceutical sector**

Date: 6th to 14th November 2021

4/11/2021
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PHARMACEUTICAL TECHNOLOGY



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PROGRAM SCHEDULE


Date& Time	Topic	No. of Hours
6 th November 2021 01:00PM to 06:00PM	Introduction To 3D Printing: 3DP technologies applicable to pharmaceutical developments, Printing-based inkjet (IJ) system	4
7 th November 2021 01:00PM to 06:00PM	Nozzle-based deposition systems: Laser-based writing systems, Application of 3DP technology To pharmaceutical dosage forms	4
8 th November 2021 01:00PM to 06:00PM	Tablets: Single API tablets, Multiple API tablets, Implants, Microneedles	4
9 th November 2021 01:00PM to 06:00PM	Types of D printing technology: Fused deposition modelling (FDM), Direct-wise, Vat photopolymerization	4
10 th November 2021 01:00PM to 06:00PM	Advantages of 3D printing in the pharmaceutical field: Enhanced productivity, Customization and personalization, Increased cost efficiency	5
11 th November 2021 01:00PM to 06:00PM	Medical applications of D printing: Bioprinting of tissues and organs, Unique dosage forms, Personalized drug dosing	5
13 th November 2021 01:00PM to 06:00PM	Customized implants and prostheses: Complex drug release profile, Anatomical models for surgical preparations	4
14 th November 2021 01:00PM to 06:00PM	Three-Dimensional Bioprinting: Stereolithography (SLA), Other forms of Additive Manufacture, Selective Laser Sintering (SLS), Digital Light Processing (DLP), Stencil Printing, Embedded 3D Printing (e-3DP), Semisolid Extrusion Printing (EXT) and Inkjet Printing (IJP)	5
Total		35


COORDINATOR


PRINCIPAL

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