



VIGNAN INSTITUTE OF PHARMACEUTICAL TECHNOLOGY

Beside VSEZ, Duvvada, Visakhapatnam-530049

Brochure of Add on /Certificate/ Value Added Programs indicating Name of the Program, Duration, Curriculum, Outcomes for the Academic Year 2021-2022

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S.N	Topics	No of Hrs
1	Introduction to Galenicals & Extraction	5
2	Solvents Used For Extraction:	5
3	Methods of extraction	5
4	Factors affecting extraction	5
5	Advanced methods in Extraction	5
6	Detailed study of equipment used for extraction	5
	Total	30

RESOURCE PERSON

Dr. G. Chandra Sekhara Rao,
Professor,
Vignan Institute of Pharmaceutical Technology



CO-ORDINATOR

Dr. P.V. Kamala Kumari,
Professor,
Vignan Institute of Pharmaceutical Technology

Assessment

Assessment procedure: Upon completion of course the assessment procedure was done by Multiple Choice Questions.

ABOUT THE INSTITUTION

Vignan Institute of Pharmaceutical Technology (VIPT) is one of the constituent colleges of Vignan Institutions well known for quality education with GLOBAL STANDARDS AND INDIAN VALUES. VIPT was established in 2006 with a view to provide job oriented professional courses in Pharmacy, VIPT offers B.Pharm., M.Pharm., Pharm.D. Programmes. The College is Affiliated to the JNTU Kakinada, approved by the All India Council for Technical Education (AICTE), Pharmacy Council of India (PCI), Govt. of Andhra Pradesh. The College is ISO 9001 : 2015, ISO 14001 : 2015, ISO 45001:2018 Certified for its safety and waste disposal methods employed. The infrastructure available makes the college a conducive academic learning that provides students with good quality education in a clean, comfortable environment. The college is presently one of the largest graduate, postgraduate and research institutions in Andhra Pradesh imparting quality Pharmaceutical Education.

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 students will able to know

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 galenicals



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DUVVADA, VISAKHAPATHAM

Value Added Course on EXTRACTION OF GALENICAL PRODUCTS

01st -07th July 2022

Venue: Lecture Hall-01, First Floor, VIPT.



Organised by
Department of Pharmaceutics



S.No.	Topics	Number of Hrs
1	Introduction to drug delivery principles, Pharmacokinetics: Bioavailability, Elimination, Therapeutic index	5
2	Prodrugs, Controlled release, Polymers, Biopolymers, Polymer-Drug conjugates, Ficks laws, Reservoir systems	5
3	Hydrogels: Physical or chemical, pore-size calculation, in-situ	5
4	Nano and Micro-particles: Dendrimers, Liposomes, Micelles, Metal and polymeric particles	5
5	Drug delivery in tissue engineering, Implant associated infections	5
6	Vaccines, Cancer vaccines, Cell and gene delivery, Smart responsive drug delivery	5
	Total	30

RESOURCE PERSON

Dr. P. Uma Devi
Principal,
Viswanadha Institute of Pharmaceutical Sciences



CO-ORDINATOR

Dr. M. Saritha
Professor,
Vignan Institute of Pharmaceutical Technology

Assessment procedure: Upon completion of course the assessment procedure was done by Multiple Choice Questions.

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COURSE OBJECTIVES

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

COURSE OUTCOMES

Upon completion of the course:

1. Understand the requirements and challenges in delivering drug for a particular application
2. Ability to think rationally and choose the best delivery system for their current and future research
3. Enable the students to gain skill in the field of Pharmaceutical, Biomedical engineering.

Value Added Course On DRUG DELIVERY PRINCIPLES AND ENGINEERING

01st July to 07th July, 2022

Venue: Lecture hall-F-02, First Floor, VIPT



Organized by
Department of Pharmaceutics



VIGNAN
INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM



4. Saritha
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DUVVADA, VISAKHAPATNAM-49

S.No.	Topics	Number of Hours
1	Karl Fischer(Volumetric)	5
2	Potentiometric	5
3	Complexometric	5
4	Redox	5
5	Karl Fischer(Coulometric)	5
6	Conductometric	5
	Total	30

RESOURCE PERSON

Mr. K. Vara Prasada Rao,
Associate Professor,
Vignan Institute of Pharmaceutical
Sciences



CO-ORDINATOR

Ms. G. Anusha,
Assistant Professor,
Vignan Institute of Pharmaceutical Technology

Assessment

Upon Completion of Course, the Assessment is done by
Multiple Choice Questions.

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Course Objectives

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

Course Outcomes

Upon completion of the course:

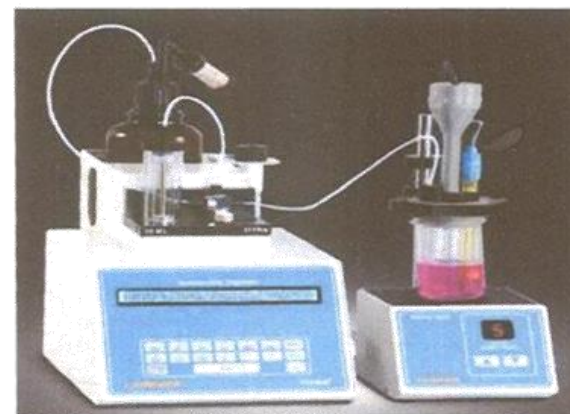
1. Understand the Basic Concepts and Principles of Titrimetric Analysis.
2. Apply the Principles of Automatic Titrimetric Methods in the Analysis of Pharmaceuticals.
3. Explain Concentration, Calculation of a Solution, its Preparation, Standardization and its Storage Conditions.
4. Describe the Sources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



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Value Added Course on Advanced Automatic Titrations in Pharmaceutical Analysis 01st to 07th July 2022

Venue: Lecture Hall F03, First Floor, VIPT



Organised by
Department of Pharmaceutical
Analysis



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DUVVADA, VISAKHAPATNAM

S.No.	Topics	Number of Hrs
1	Introduction	2
2	Protein synthesis	3
3	Inhibitor of protein synthesis	5
4	Design of Antibacterial agents	5
5	Design of Amebicidal agents	5
6	Design of Antitumor agents	5
7	Design of emetic drugs	5
8	Design of Antibacterial agents	5
	Total	35

RESOURCE PERSON

Prof. Dr. Y. Rajendra Prasad
Andhra University College of
Pharmaceutical Sciences



CO-ORDINATOR

Dr.D.Vasudha
Associate Professor
Vignan Institute of Pharmaceutical Technology
Assessment

Upon completion of course, the assessment is done by multiple choice questions.

ABOUT THE INSTITUTION

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COURSE OBJECTIVES

This course will enable the student to the understand the concept of protein Biosynthesis Inhibition and Develop design of various effective agents for the treatment of diseases.

COURSE OUTCOMES

- Upon completion of the course:
- Describe mechanisms of protein synthesis and inhibition of protein synthesis
 - Explain about the mechanism, pathways of different class of medicinal active compounds
 - Understand the design, drug metabolic pathways, adverse effect and therapeutic value of drugs.



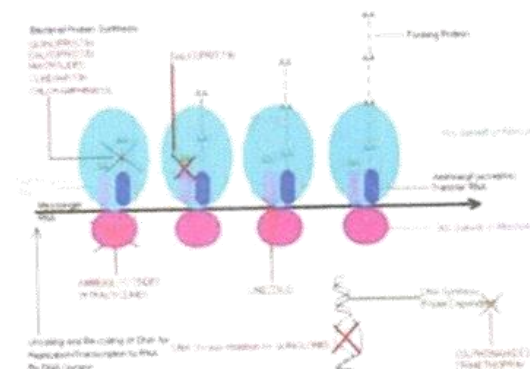
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Value Added Course
on

INHIBITION OF PROTEIN BIOSYNTHESIS : ITS SIGNIFICANCE IN DRUG DESIGN

01st -08th July 2022

Venue: Lecture Hall F04, First Floor, VIPT



Organized by
Department of Pharmaceutical Chemistry



VIGNAN
INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

S.No	Topic	No.of Hours
1	Critical Care Procedures, Monitoring, and Pharmacology	5
2	Critical Care Cardiovascular Disease, Pulmonary Disease & Infectious Diseases	5
3	Neurologic Disease in the Critically Ill	5
4	Renal Disease and Metabolic Disorders in the Critically Ill	5
5	Administrative, Ethical, & Psychological Issues in the Care of Critically Ill	6
6	Other Critical Care Disorders and Issues in Care of the Critically Ill	6
	Total	32

RESOURCE PERSON

Dr. K. Daniel Raju
Associate Professor,
Vignan Institute of Pharmaceutical Technology



CO-ORDINATOR

Ms. Reddi Syamala,
Assistant Professor,
Vignan Institute Of Pharmaceutical Technology

Assessment

Upon Completion of the Course, Assessment is Done by Multiple Choice Questions.

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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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Value Added Course
on

Critical Care Medicine

08th to 14th October 2021

Venue: Lecture Hall-F03, First Floor, VIPT



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Department of Pharmacology



VIGNAN
INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

S.No	Name of the Topic	No of Hours
1	Introduction to Anatomy and Electrophysiology of Heart.	6
2	Introduction to Electrocardiogram (ECG), Normal Waves & Segments of ECG	5
3	ECG Leads Placement & Recording of ECG.	5
4	Study of the Normal ECG and Interpretation of Heart Function.	5
5	Abnormalities of PQR Waves in the ECG & Its Interpretation Related to Heart Diseases	5
6	Abnormalities of ST wave in the ECG & Its Interpretation Related to Heart Diseases	5
	Total	31

RESOURCE PERSON

Prof. Dr. K. Raj Kiran,
Principal,
Sri Shivani College of Pharmacy.



CO-ORDINATOR

Mrs. V. Jhansi laxmi,
Assistant professor,
Vignan Institute of Pharmaceutical Technology.

Assessment

Upon Completion of Course, The Assessment is done by Multiple Choice Questions.

ABOUT THE INSTITUTION

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COURSE OBJECTIVE

This Course Emphasizes on Theoretical Aspects of Electrophysiology of Heart and Imparts Practical Knowledge on Recording of Electrocardiogram and Interpretation . Certification will be Provided After Successful Completion of the Course

COURSE OUTCOMES

Upon Completion of the Course :

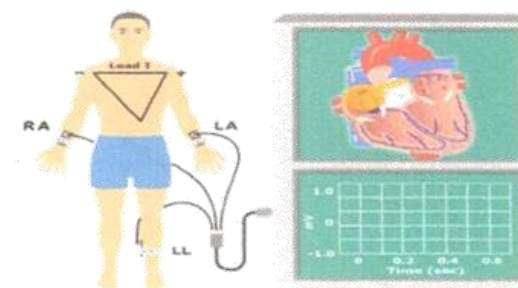
- Understand the Electrophysiology of Heart.
- Understand the Significance of ECG Recording.
- Understand Various Waves in the ECG .
- Develops Skill of Interpretation of Various Cardiovascular Conditions with the Help of ECG.

Value Added Course
on

“Electrocardiogram(ECG) Interpretation & Study of Electrophysiology”

08th – 14th October 2021.

Venue: Tutorial Hall- 3, VIPT



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Department of Pharmacology



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S.No	Topic	Number of hours
1	Introduction	4
2	Approaches	6
3	Methods of microbial nano-formulations with their limitations	10
4	Evaluation	4
5	Difficulties associated	2
6	Applications	4
	Total	30

RESOURCE PERSON

Mr. B. Rama Rao
Associate Professor
Vignan Institute of Pharmaceutical Technology



CO-ORDINATOR

Dr. S. Satya Lakshmi
Associate professor
Vignan institute of pharmaceutical technology

ASSESSMENT

Upon completion of the course assessment is done by multiple choice questions

ABOUT THE INSTITUTION

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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.

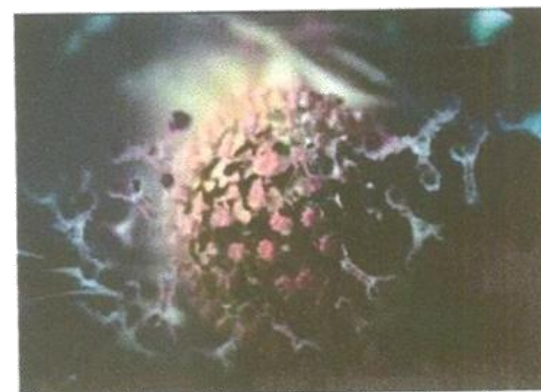


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Value Added Course on Microbial Nanotechnology and Multidisciplinary Applications

08th to 14th October 2021

Venue: Lecture Hall F-03, First Floor, VIPT



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DUVVADA, VISAKHAPATNAM

S.No	Topic	No.of hours
1	Introduction	5
2	Overview of All Phases in drug discovery & Development process	5
3	Preclinical Animal models	5
4	Ethical Guidelines for the Use of Animals in Research	5
5	Types and Phases of Preclinical Trails	6
6	Animals Models in Drug Discovery	6
Total		32

RESOURCE PERSON

Dr.M.Savitri

Professor,
Viswanadha Institute of Pharmaceutical Sciences



CO-ORDINATOR

Mrs. V. Jhansi Lakshmi

Assistant Professor,
Vignan Institute Of Pharmaceutical Technology

ASSESSMENT

Upon completion of the course , assessment is done by Multiple choice questions.

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COURSE OBJECTIVES

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

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

Value Added Course
on

Assessment of Laboratory Animals in Drug Discovery Process

08th to 14th October 2021

Venue: Lecture Hall-F04 , First Floor, VIPT



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Department of Pharmacology



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S.No	Contents	No of Hrs
1	Introduction to Global Regulatory Framework	5
2	The importance of bioactive compounds from Nature in drug development.	5
3	Major molecular targets of cells. (A) Bacterial cells; (B) animal cells. ER: endoplasmic reticulum	5
4	Interactions of secondary metabolites with biomembranes and membrane proteins.	5
5	Specific interactions (ligand-receptor relationships) of secondary metabolites with proteins.	5
6	The Utilization of Secondary Metabolites in Medicine	5
Total hrs		30

RESOURCE PERSON

Dr. Gana Manjusha K,
Associate Professor
Vignan Institute of Pharmaceutical Technology



COORDINATOR

Mrs. Aruna Kumari D,
Associate Professor
Vignan Institute of Pharmaceutical Technology

Assessment

Upon completion of the course assessment is done by
Multiple Choice questions

ABOUT THE INSTITUTION

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COURSE OBJECTIVES

This course will help students to
Understand the demand for bioactive compounds from Nature
Understand the role of natural compounds as new targets for the development of novel therapeutics

COURSE OUTCOMES

Upon completion of the course, the student will be able to

1. Understand the physiology, biochemistry and ecology of secondary metabolism.
2. Exploit bioactive natural chemicals in a rational way in medicine and agriculture.
3. Describe resistance against common antibiotics and the need for new antibiotics with new targets



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Value Added Course on **Bioprospecting: The Search for Bioactive Lead Structures from Nature**

21st to 26th Feb 2022

Venue : Lecture Hall- F03, First Floor, VIPT



Organised by
Department of Pharmacognosy & Phytochemistry



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INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

S.NO	Topics	Number of hours
1	Introduction	4
2	Sources of respiratory viral infections	4
3	Pathogenesis	6
4	Preventive measures	6
5	Formulation of covid vaccine	4
6	Regulatory and quality aspects	6
	Total	30 Hrs

RESOURCE PERSON

Dr. P.V. Kamala Kumari
Professor
Vignan Institute of Pharmaceutical
Technology



CO-ORDINATOR

Dr.S.Satya Lakshmi
Associate Professor
Vignan Institute of Pharmaceutical
Technology

Assessment

Upon completion of the course assessment is done by multiple choice questions

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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.

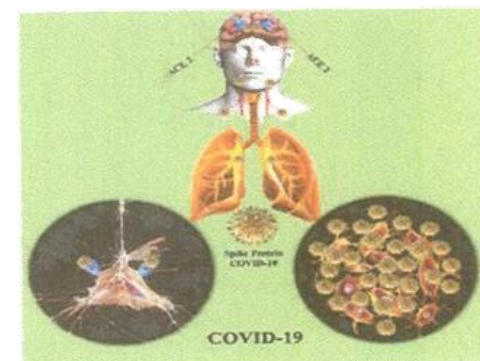


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Value Added Course on Introduction to Corona Manufacturing, Safety and Quality Control of Covid-19 Vaccine

21st to 26th Feb, 2022

Venue: Lecture Hall F02, First Floor, VIPT



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Department of Pharmaceutics



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INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

S.No	Contents	Nur of Hrs
1	Introduction to Global Regulatory Framework	5
2	Minimum requirements for assessment of safety of herbal medicines.	5
3	Minimum requirements for assessment of the efficacy of herbal medicines.	5
4	Quality assurance of herbal medicinal products	5
5	Control of advertisements of herbal medicinal products	5
6	Current Scientific Status and Challenges Ahead	5
Total hrs		30

RESOURCE PERSON

Dr Bala Krishnaiah P

Professor,
Vignan Institute of Pharmaceutical
Technology

COORDINATOR

Dr Gana Manjusha K,

Associate Professor

Vignan Institute of Pharmaceutical Technology

Assessment

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Multiple Choice questions



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COURSE OBJECTIVES

This course will help students to Understand existing regulatory frameworks and categories
Understand the regulations applicable to commercial medicinal plant products.

COURSE OUTCOMES

Upon completion of the course:

1. Explain regulations applicable to commercial medicinal plant products from a global perspective.
2. Explore the underlying reasons for regulation .
3. Compare the current regulations at a national and regional level.
4. Identify the major role being played by the World Health Organization .
5. Identify the significant challenges which remain to achieving regional and international harmonization.

Value Added Course
on

**Global Regulatory Framework for Herbal
Medicine**

21st to 26th Feb 2022

Venue : Lecture Hall F03, First Floor, VIPT



Organised by

Department of Pharmacognosy & Phytochemistry



VIGNAN
INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM



4 Review
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PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM-49

S.No	Topics	Number of hours
1	Introduction to cardiac life support	5
2	Awareness of Basic Life Support (BLS); Role and importance of Cardio Pulmonary Resuscitation (CPR)	5
3	Advanced Cardiac Life Support (ACLS)	5
4	Recognition and early management of respiratory and cardiac arrest	5
5	Related pharmacology on cardiac drugs	5
6	Recognition and early management of respiratory and cardiac arrest	5
	TOTAL	30

RESOURCE PERSON

Dr. P. Rajeswara Rao
Principal,
Lydia College of Pharmacy



CO-ORDINATOR

Dr. G. Vasantha
Associate Professor,
Vignan Institute of Pharmaceutical Technology

Assessment

Upon completion of course, the assessment is done by multiple choice questions.

ABOUT THE INSTITUTION

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COURSE OBJECTIVES

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:

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



Handwritten signature: G. Suresh
PRINCIPAL
VIGNAN INSTITUTE OF
PHARMACEUTICAL TECHNOLOGY
Beside: VSEZ, Duvvada, Visakhapatnam-46

Value Added Course On **ADVANCE CARDIAC LIFE SUPPORT**

18th - 23th October 2021

Venue: Lecture Hall F01, First Floor, VIPT



Organized by
Department of Pharmacology



VIGNAN
INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

TOPICS:

S.No	Topic	Number of hours
1	Introduction to Brain	2
2	Difference between normal ageing and dementia	4
3	Stages of dementia and focusing support	4
4	Factor's that affect a person's experience living with dementia	5
5	Alzheimer's disease Vascular dementia	5
6	Dementia with Lewy bodies Frontotemporal dementia	5
7	Medical management	5
	TOTAL	30

RESOURCE PERSON

Dr K Eswar Kumar,
Associate Professor,
AU College of Pharmacy



CO-ORDINATOR

Dr G Vasantha
Associate Professor
Vignan Institute of Pharmaceutical Technology

Assessment

Upon completion of course, the assessment is done by multiple choice questions.

ABOUT THE INSTITUTION

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COURSE OBJECTIVES

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

COURSE OUTCOMES

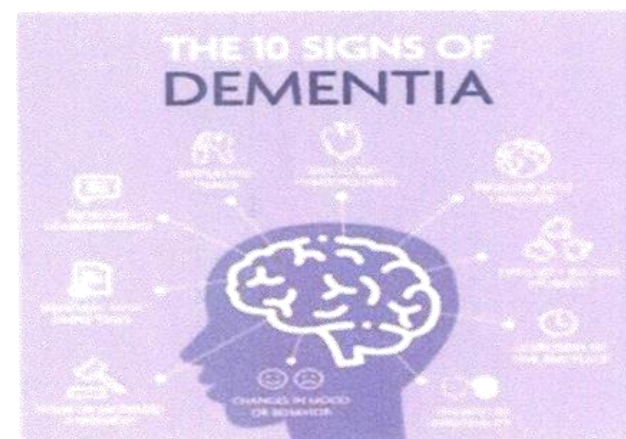
Upon completion of the course:

1. Understanding the difference between normal ageing and dementia
2. Explore the Risk factors of dementia
3. Analyse various Domains of Dementia
4. Describe the Diagnosis of Dementia
5. Ability to think Younger onset of Dementia

Value Added Course on Understanding Dementia

18.10.2021 to 23.10.2021

Venue: Lecture Hall-F-02, First Floor, VIPT



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Department of Pharmacology



VIGNAN
INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM



Dr. K. Eswar Kumar
VIGNAN INSTITUTE OF
PHARMACEUTICAL TECHNOLOGY
Beside VSEZ, Duvvada, Visakhapatnam-49

S.No	Topic	No.of hours
1	Introduction	5
2	Airway and Breathing	5
3	Focused Neurological evaluation	5
4	Neuropharmacology	5
5	Basics of Neuroradiology	6
6	Approaches to patients with Neurological disorders & Management of Neuroemergencies	6
	Total	32

Resource Person

Dr. K. Raj Kiran

Principal, Sri Sivani College of Pharmacy,
Srikakulam



Co-ordinator

Mr.KRVS.Chaitanya

Assistant Professor,
Vignan Institute Of Pharmaceutical Technology

Assessment

Upon completion of the course , assessment is done by
Multiple choice questions.

ABOUT THE INSTITUTION

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Course Objectives

This course will enable you to deliver in patients with neurological diseases & neurological evaluation, neuropharmacology, neuroradiology, and various other neurological disorders.

Course Outcomes

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

1. Understand the evaluation of Neurological Disorders.
2. Describe the basics of Neuropharmacology and neuroradiology.
3. Understand the management of Neuroemergencies



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PHARMACEUTICAL TECHNOLOGY
Beside: VSEZ, Duvvada, Visakhapatnam-49

Value Added Course on

Neurocare Medicine

18th to 23th October 2021

Venue: Lecture Hall-F03 , First Floor, VIPT



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INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

S.No	Topic	No.of hours
1	Introduction to Visualisation and the Human Body	5
2	Anatomical Terminology	5
3	3D Models and Animation	5
4	Applications of 3D Models and Animations	5
5	Segmentation of Medical Imaging	5
6	Virtual Reality and Augmented Reality	5
7	Applications of Virtual Reality	5
	Total	35

Resource Person

Dr.A.Satya Sai Srinivas
Assistant Professor,
Vignan Institute Of Pharmaceutical Technology



Co-ordinator

Dr.G.Urmila
Assistant Professor,
Vignan Institute Of Pharmaceutical Technology

Assessment

Upon completion of the course, assessment is done by multiple choice questions.

ABOUT THE INSTITUTION

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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 modelling and animations using industry standard, open-source software (Blender).
4. Analyse various visualisation techniques and methods, and be able to apply them to areas of biomedical science

Value Added Course
on

Biomedical Visualization

23rd February to 03rd March 2022

Venue: Lecture Hall -S01,Second
Floor, VIPT



Organised by
Department of Pharmacy Practice



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DUVVADA, VISAKHAPATNAM



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PHARMACEUTICAL TECHNOLOGY
Beside: VSEZ, Duvvada, Visakhapatnam-49

S.No	Topic	No. of hours
1	Introduction	5
2	Interpretation of Pulse/Heart Rate	5
3	Interpretation of Blood Pressure	5
4	Interpretation of Metabolism	5
5	Interpretation of Temperature	5
6	Interpretation of Respiration Rate	5
7	Interpretation of Pain	5
	Total	35

RESOURCE PERSON

Dr. G. Urmila
Assistant Professor,
Vignan Institute of Pharmaceutical Technology



CO-ORDINATOR

Dr. Wasim Feroz
Assistant Professor,
Vignan Institute of Pharmaceutical Technology

Assessment

Upon completion of the course, assessment is done by multiple choice questions.

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COURSE OBJECTIVES

To explore the anatomy and physiology underlying the vital signs so that you will develop a systematic, integrated understanding of how the body functions.

COURSE OUTCOMES

- Upon completion of the course:
1. Assessment of vital signs by clinicians.
 2. 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.



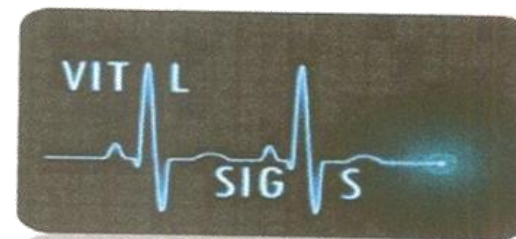
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PHARMACEUTICAL TECHNOLOGY
Beside: VSEZ, Duvvada, Visakhapatnam-49

Value Added Course
on

INTERPRETATION OF VITAL SIGNS

15th to 22nd November 2021

Venue: Lecture Hall-S03, Second Floor, VIPT



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Department of Pharmacy Practice



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INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

S.No	Topic	No. of hours
1	Introduction to Stem Cells	5
2	How Do Stem Cells Work? Using Stem Cells to Study	5
3	Disease, Using Stem Cells to Treat Disease	5
4	Characterizing stem cells	5
5	Pluripotent stem cells	5
6	Radiology and Anesthesia: Guidelines for Medical coding professionals	5
7	The Bioethics of Stem Cell Research and Therapy	5
	Total	35

RESOURCE PERSON

Mr. M. Vinod Kumar
Assistant Professor
Vignan Institute Of Pharmaceutical Technology



CO-ORDINATOR

Dr. Wasim Feroz
Assistant Professor,
Vignan Institute Of Pharmaceutical Technology

Assessment

Upon completion of the course, assessment is done by Multiple choice questions.

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COURSE OBJECTIVES

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,
- 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;
 - Design future experiments based on a data figure from a scientific paper.

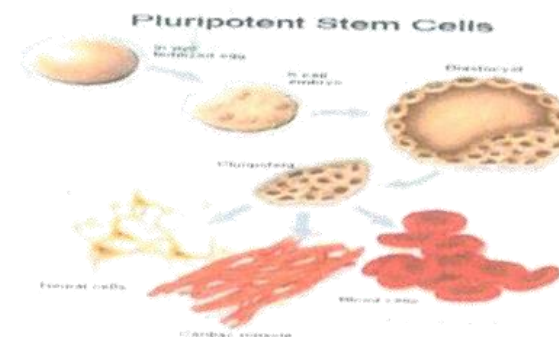


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PHARMACEUTICAL TECHNOLOGY
Beside: VSEZ, Duvvada, Visakhapatnam-49

Value Added Course on SCIENCE OF STEM CELLS

Date: 01st to 10th Dec 2021

Venue: Lecture Hall-S04, Second Floor, VIPT



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Department of Pharmacy Practice



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INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

S.No	Topic	No.of hours
1	Introduction to Medical Coding, Basics of Anatomy and Physiology	5
2	Medical Coding and terminologies in association with Diseases	5
3	International Classification of Diseases (ICD)	5
4	Healthcare Common Procedure Coding System (HCPCS)	5
5	Evaluation and Management Guidelines for Medical coding professionals	5
6	Radiology and Anaesthesia Guidelines for Medical coding professionals	5
7	Pathology and Laboratory and Medicine Services and Procedures Guidelines for Medical coding professionals	5
	Total	35

Resource Person

Dr. Wasim Feroz

Assistant Professor

Vignan Institute Of Pharmaceutical Technology



Co-ordinator

Ms. R. Syamala

Assistant Professor,

Vignan Institute Of Pharmaceutical Technology

Assessment

Upon completion of the course, assessment is done by multiple choice questions.

ABOUT THE INSTITUTION

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Course Objectives

This course will enable you to deliver improved Industry-specific skills: ICD-10 coding, CPT® coding, HCPCS coding, Medical terminology, Anatomy, Pathophysiology, Healthcare regulations, ICD.

Course Outcomes

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



4. Principal
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 Beside: VSEZ, Duvvada, Visakhapatnam-49

Value Added Course
on

Fundamentals of Medical Coding

Date: 20.12.2021 to 28.12.2021

Venue: Lecture Hall-F08, First Floor, VIPT



Organised by

Department of Pharmacy practice



VIGNAN

INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

S.No.	Topics	Number of Hrs
1	Overview of regulatory authorities	4
2	Organization of regulatory authorities	4
3	Regulatory authorities of India	5
4	Regulatory authorities of united states	5
5	Regulatory authorities of European union	4
6	Regulatory authorities of Australia	4
7	Regulatory authorities of Japan	4
8	Regulatory authorities of Canada & Other Countries	5
	Total	35

Resource Person

Dr. M. Trinadha Rao,
Associate Professor,
Vignan Institute of Pharmaceutical
Technology



Co-ordinator

Ms. U. Bhavani,
Assistant Professor,
Vignan Institute of Pharmaceutical Technology

Assessment:

Upon completion of the course, assessment is done by
Multiple choice questions.

ABOUT THE INSTITUTION

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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:

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



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INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

Value Added Course On
REGULATORY AUTHORITIES
IN PHARMA SECTOR

01st -09th February 2022

Venue: Tutorial Room-1, VIPT.

Pharmaceutical Regulatory Bodies



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Department of Pharmaceutics

Name of the Topic	Hours
Method Performance Requirements	5
Factors for Identifying a Measurement Technique	5
Reversed-Phase Method Development Workflow	5
Risk Assessments	5
Design of Experiments	5
Method Verification	5
Continuous Monitoring	5
Total	35

Resource Person

Mr. K. Vara Prasada Rao,
Associate Professor,
Vignan Institute of Pharmaceutical
Technology



Co-ordinator

Mr.K.B.R.Babu,
Assistant Professor
Vignan Institute of Pharmaceutical Technology

Assessment

Upon completion of course, the assessment is done by multiple choice questions.

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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,

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

Value Added Course on

Analytical Quality by Design (AQbD) in Pharmaceutical Development

1st to 9th February 2022

Venue: Tutorial Room 02,
Third Floor, VIPT



Organized by
Department of Pharmaceutical
Analysis



VIGNAN
INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

4-11-2021
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PHARMACEUTICAL TECHNOLOGY
Beside: VSEZ, Duvvada, Visakhapatnam-49



S. No	Topic	No. of hours
1	Overview of Immuno- oncology	4
2	Basic Tumor Immunology	4
3	Immune Checkpoint Blockade	4
4	Other approaches (Cytokines, Vaccines & Immune cell engagers	5
5	Oncolytic Viruses and Intravesicular Therapy	5
6	CAR T and Other Novel Therapies	5
7	Implementing Cancer & immunotherapy in Clinical practice	5
8	Regulatory aspects of biological therapy of cancer:	3
Total		35

Resource Person

Dr. G. VASANTHA

Associate Professor,
Vignan Institute of Pharmaceutical Technology

Co-ordinator

Mrs. V. Jhansi Lakshmi

Assistant Professor,
Vignan Institute Of Pharmaceutical Technology

Assessment

Upon completion of the course , assessment is done by Multiple choice questions.



ABOUT THE INSTITUTION

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Course Objectives

This course will enable you to deliver Basics of immuno-oncology ,Immune checkpoint Blockade, various therapies and vaccines for the treatment of various types of Leukemias.

Course Outcomes

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

1. Describe mechanisms of the immune response against cancer cells and how these responses are regulated during cancer development and progression.
2. Principles underlying chimeric antigen receptor transduced T cells (CAR-T cells) ,T cell receptor (TCR)-transduced T cells and their efficacy in the treatment of leukemias etc.
3. Implementing cancer & immunotherapy in clinical practice.

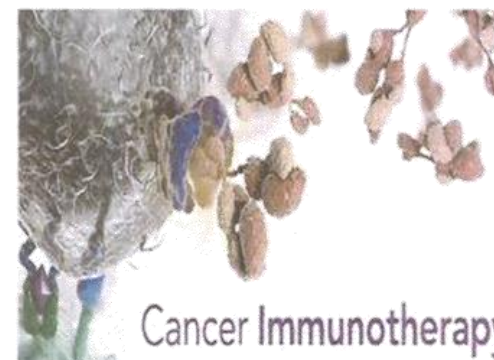


4 weeks
VIGNAN INSTITUTE OF
PHARMACEUTICAL TECHNOLOGY
Beside: VSEZ, Duvvada, Visakhapatnam-49

Value Added Course on Cancer Related Immunotherapy

1st - 9th February 2022

Venue: Tutorial Room-03, VIPT



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Department of Pharmacology



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INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

S.No	Topics	Number of Hrs
1	Introduction To 3D Printing	4
2	Nozzle-based deposition systems	4
3	Tablets, Single API tablets, Multiple API tablets	4
4	Types of 3D printing technology	4
5	Advantages of 3D printing in the pharmaceutical field	5
6	Medical applications of 3D printing, Bioprinting of tissues and organs	5
7	Complex drug release profile, Customized implants and prostheses	4
8	Three-Dimensional Bioprinting	5
	Total	35

Resource Person

Dr. G. Chandra Sekhara Rao,
Professor,
Vignan Institute of Pharmaceutical Technology



Co-ordinator

Mr. P. N. Mallikarjun,
Associate Professor,
Vignan Institute of Pharmaceutical Technology

Assessment procedure: After completion of course the assessment procedure was done by Multiple Choice Questions

ABOUT THE INSTITUTION

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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 fulfil their endeavours

Course Outcomes

Upon completion of the course:

1. Understand the 3D technology in pharma industry
2. Advances in pharmaceutical product manufacturing and Applications of 3D printing.

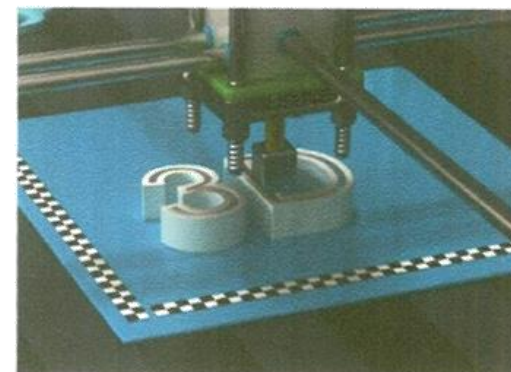


Principle
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Beside: VSEZ, Duvvada, Visakhapatnam-46

Value Added Course On APPLICATION OF 3D PRINTING IN PHARMACEUTICAL SECTOR

06th -14th November 2021

Venue: Tutorial Room-2, Third Floor, VIPT



Organised by
Department of Pharmaceutics



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