



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 2019-2020

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| 18 | Biomedical Nanotechnology | <u>19</u> |
| 19 | Metabolomics in Pharmaceutical R&D | <u>20</u> |
| 20 | Mechanical Ventilation Cum Respiratory Therapy | <u>21</u> |
| 21 | Statistical Interpretation of Animal Studies | <u>22</u> |

| S.No. | Topics | Number of Hrs |
|-------|---|---------------|
| 1 | Introduction | 2 |
| 2 | Clinical Applications | 4 |
| 3 | Retinoid Biosynthesis | 4 |
| 4 | Retinoid Metabolism | 5 |
| 5 | Role of Retinoids in visual signal Transduction | 5 |
| 6 | Functional Domains of Retinoic acid receptors | 5 |
| 7. | Future Perceptives | 5 |
| Total | | 30 |

RESOURCE PERSON

Prof Girija Sastry Vedula

Andhra University college of
Pharmaceutical Sciences



CO-ORDINATOR

Mr .A. Kanka Raju

Associate Professor

Vignan Institute of Pharmaceutical Technology

Upon completion of course, the assessment is 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 will Summarize the all aspects related to Retinoid biosynthesis, metabolism, clinical applications and the rôle of retinoids in visual transduction.

COURSE OUTCOMES

- Understand the functional domain of retinoic acid receptors
- Explain the Role of Retinoids
- Evaluate the future perceptives of retinoids

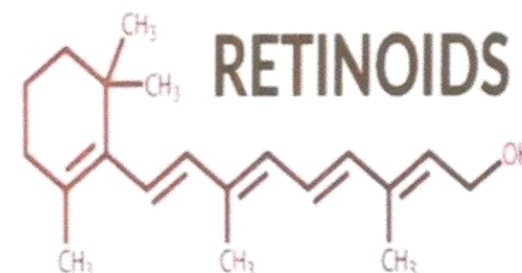
Handwritten signature: G. Srinivasulu
PRINCIPAL
VIGNAN INSTITUTE OF
PHARMACEUTICAL TECHNOLOGY
 Beside: VSEZ, Duvvada, Visakhapatnam-49

Value Added Course on

RETINOIDS

23rd -28th September 2019

Venue: Lecture Hall F01, First Floor, VIPT



Organized by

Department of Pharmaceutical
Chemistry

VIGNAN

INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

| S.No. | Topics | Number of Hrs |
|-------|--|---------------|
| 1 | Challenges for pharmaceutical manufacturing | 5 |
| 2 | Fundamental tools for increased process understanding, Risk management | 5 |
| 3 | Design of experiment, Mechanistic process modelling | 5 |
| 4 | Fluidic systems and multiple flows, Particle based systems | 5 |
| 5 | Production planning and scheduling, Capacity and investment planning | 5 |
| 6 | Technologies for continuous drug product manufacturing | 5 |
| | Total | 30 |

RESOURCE PERSON

Dr. J. Vijaya Ratna
Professor,
Andhra University.



CO-ORDINATOR

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

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

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COURSE OBJECTIVES

Students will know the methodology, different excipients used in solid dosage forms and their evaluation with references to production technologies

COURSE OUTCOMES

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

1. Process understanding
2. Production planning
3. Continuous manufacturing
4. Investment planning

Dr. P.V. Kamala Kumari
PRINCIPAL
VIGNAN INSTITUTE OF
PHARMACEUTICAL TECHNOLOGY
Beside: VSEZ, Duvvada, Visakhapatnam-43

Value Added Course On PHARMACEUTICAL MANUFACTURING AND EMERGING TECHNOLOGIES

23rd September to 28th September, 2019

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



Organized by
Department of Pharmaceutics

VIGNAN
INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

| Name of the Topic | No of Hours |
|---|-------------|
| Introduction of Organometallic Chemistry Ligand Substitution Reactions, Oxidative Addition | 5 |
| Reductive Elimination, Migratory Insertion & Elimination Reactions, Alpha-Migratory Insertion & Alpha-Elimination Reactions | 5 |
| Beta-Migratory Insertion & Elimination Reactions, Alpha-Abstraction & Beta-Abstraction | 5 |
| 4-Center Reactions [2+2] Reactions, External Attack by a Ligand & Reductive Coupling | 5 |
| Hydrogenation Reaction, Stereoselective Hydrogenation Reaction | 5 |
| Carbonylation Reaction | 5 |
| Total | 30 |

RESOURCE PERSON

Dr. P. V. Madhavi Latha ,
Associate Professor,
VITAM College, Visakhapatnam.



CO-ORDINATOR

Dr. P. Chiranjeevi,
Associate Professor
Vignan Institute of Pharmaceutical Technology

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

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COURSE OBJECTIVES

To train the students on Organometallic Chemistry where they will acquire information on Role of Modern Chemistry and its techniques, Basis of metal-ligand complex in Pharmaceutical Analysis. Certification will be provided after successful completion of the course.

COURSE OUTCOMES

Upon completion of the course,

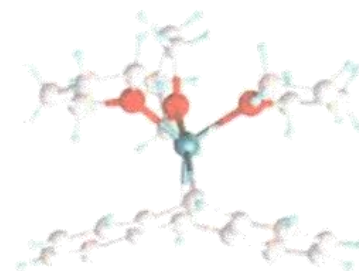
- Understand the Principles of Organometallic Chemistry.
- Identify the Correct Technique/ Different Pathways.
- Performing of Different Methods.
- Design the Methodology for an Analysis.

ods.
an Analysis.

Value Added Course
on
Organometallic Chemistry

23rd to 28th September 2019

**Venue: Lecture Hall – F03,
First Floor, VIPT**



Organised by
Department of Pharmaceutical
Analysis



VIGNAN
INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

| S.No | Topic | Number of hours |
|------|--|-----------------|
| 1 | Introduction- Role of Microbes | 5 |
| 2 | Microorganisms suitable for waste treatment | 5 |
| 3 | Methods of treatment | 5 |
| 4 | Hazardous and Non-hazardous biological waste | 5 |
| 5 | Safety measures and training | 5 |
| 6 | Equipments for waste treatment | 5 |
| | Total | 30 |

RESOURCE PERSON

Mr. B. Rama Rao
Assistant Professor
Vignan institute of pharmaceutical technology



COORDINATOR

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

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 how the biotechnology and biological waste materials influence the surrounding environment. They can learn the types of waste materials resulted from biotechnology based industries. They understand role of microorganisms in the treatment process and advantages of bioremediation compared to other conventional methods.

COURSE OUTCOMES

Upon completion of the course:

1. Understand the impact of biotechnology and biological waste materials on environment.
2. Explain various types of microorganisms and its involvement.
3. Identify the suitable method of treatment.
4. Make use of these techniques alternative to conventional treatment methods.

Value Added Course on **Role of Microbes in Biological and Biotechnological Waste Management** 05th to 13th August 2019

Venue: Lecture Hall-F03, First Floor
VIPT



Organized by
Department of Pharmaceutics



VIGNAN
INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM



27.8.2019
VIGNAN INSTITUTE OF
PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM-46

| S.No | Topic | Number of hours |
|------|--|-----------------|
| 1 | Introduction & Overview Airway Management | 5 |
| 2 | Trauma Emergencies | 5 |
| 3 | Wounds & Analgesia | 5 |
| 4 | Medical Emergencies | 5 |
| 5 | Surgical Emergencies | 5 |
| 6 | Transfusion Emergencies Environmental Emergencies | 5 |
| | TOTAL | 30 |

RESOURCE PERSON

Mr. Vinod Kumar M
Assistant professor, Vignan Institute of
Pharmaceutical
Technology



COORDINATOR

Mr. Koppala RVS Chaitanya
Assistant professor Vignan Institute of Pharmaceutical
Technology

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

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COURSE OBJECTIVE

This course will lay the foundation for Pharmacology and help students understand the emerging approach in handling wound and analgesia, surgical and transfusion, orthopaedics, trauma, geriatric, paediatrics, ocular, cardiovascular medical emergencies and to provide simulated clinical settings in providing help in emergencies

COURSE OUTCOMES

- Understand the various traumas and emergencies related.
- Improve quality of life by planning the specific clinical setting for emergencies.
- Explore various assessment tools for airways problems during emergencies.
- Related the difference between critical and medical emergencies



4.8/5
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Beside VSE, Duvvada, Visakhapatnam

Value Added Course on Medical emergencies

5th August -13th August 2019

Venue: Lecture Hall F-02, 1st Floor, VIPT



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Department of Pharmaceutical Analysis



VIGNAN

INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

| S.No | Topic | No. of hours |
|------|---|--------------|
| 1 | Introduction and Classification of ADR | 6 |
| 2 | Events and Serious Adverse Event follow-up information in clinical trials | 8 |
| 3 | ADR Reporting forms of various Countries Medwatch Suspected ADR Reporting form Yellow card | 6 |
| 4 | Case studies on ADR Empirical Studies of ADR | 10 |
| | Total | 30 |

RESOURCE PERSON

Dr. K .Rajkiran

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.

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COURSE OBJECTIVES

This course will enable you to lay the foundation for Pharmacovigilance and help students understand the concept of Adverse drug reaction reporting and management and Oracle Argus software.

COURSE OUTCOMES

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

1. Understand the classification of adverse reactions
2. Understand the classification of adverse reactions
3. Understanding of spontaneous reporting of ADRs and its strengths and weaknesses

27/08/2019
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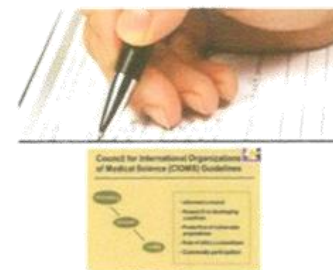
Value Added Course on

ADR reporting and monitoring

5th August 2019 to 13th August 2019

Venue: Lecture Hall-F03 , First Floor, VIPT

REPORTING ADVERSE EVENTS



Organised by
Department of Pharmacology

VIGNAN
INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

| S.No | Topic | Number of hours |
|-------|--|-----------------|
| 1 | Introduction | 5 |
| 2 | Monoclonal Antibodies | 5 |
| 3 | Proteins & Nucleic Acids | 5 |
| 4 | Drug Targeting | 5 |
| 5 | Mechanism and metabolism Merits and demerits | 5 |
| 6 | Applications in Pharma industry | 5 |
| Total | | 30 |

RESOURCE PERSON

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



COORDINATOR

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

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 advantages of targeted drug therapy, various approaches of targeted drug delivery and formulation of antibody drug conjugates. They can understand the release pattern, mechanism and its metabolism with their limitations; they can identify the diseases or disorders treated by targeted drug delivery.

COURSE OUTCOMES

Upon completion of the course:

1. Understand the importance of targeted drug therapy.
2. Explain various approaches in the formulation.
3. Describe the mechanism and its metabolism.
4. Identify the diseases that can be treatable by targeted drug therapy.

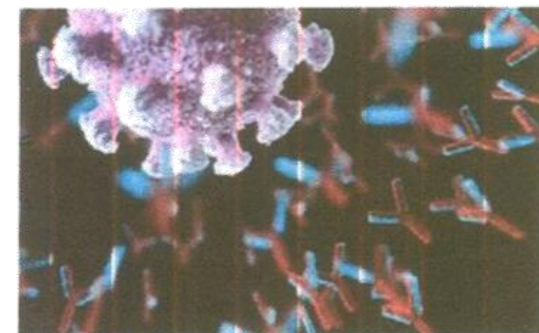


VIGNAN INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
Beside: VSEZ, Duvvada, Visakhapatnam-49

Value Added Course on Monoclonal Antibodies, Proteins and Nucleic Acid Metabolism and its Role in Drug Targeting

25th to 30th November 2019

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



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Department of Pharmaceutics



VIGNAN

INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

| S.No | Contents | Number of Hours |
|-------------|---|-----------------|
| 1 | Introduction and Selection of markers | 5 |
| 2 | components coupled with 'fingerprints' | 5 |
| 3 | Applications of Chemical Markers | 5 |
| 4 | Classification of Secondary metabolites | 5 |
| 5 | Stability test of proprietary products | 5 |
| 6 | Future Prospects | 5 |
| Total Hours | | 30 |

RESOURCE PERSON

Mr Bala Krishnaiah P
Associate Professor
Vignan Institute of Pharmaceutical Technology



COORDINATOR

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

Assessment

Assessment procedure: Assessment is done by multiple choice questions

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COURSE OBJECTIVES

This course will help students to Understand the concept of *In-vitro* culturing techniques of medicinal plants. Understand the initiation of plant cell and tissue cultures and cultivation of plant cells and tissues in vitro

COURSE OUTCOMES

Upon completion of the course:

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



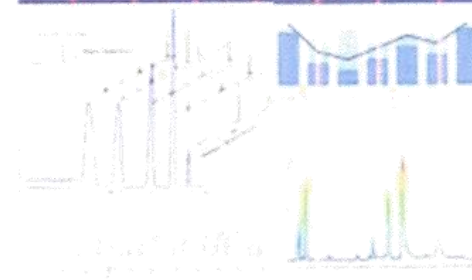
Value Added Course on

Chemotaxonomy and Chemical Markers

25th to 30th November 2019

Venue: Lecture Hall-F03 First Floor VIPT

Role of Markers in Standardization of Herbal Products



Organised by

Department of Pharmacognosy & Phytochemistry



VIGNAN

INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

| S.No | Topic | Number of hours |
|------|--|-----------------|
| 1 | Introduction | 5 |
| 2 | Methods of strain improvement | 5 |
| 3 | Regulatory mechanism of improved strains | 5 |
| 4 | Selection methods for improved strains | 5 |
| 5 | Industrial production by improved strains | 5 |
| 6 | Application of improved strains in commercialization | 5 |
| | Total | 30 |

RESOURCE PERSON

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



COORDINATOR

Mr. B. Rama Rao
Associate professor
Vignan institute of pharmaceutical technology

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 advantages of improved strains over wild strains, methods of strain improvement, selection of improved strains, commercial production of industrial products.

COURSE OUTCOMES

Upon completion of the course:

1. Understand the importance of strain improvement.
2. Explain various methods of strain improvement.
3. Manipulate the conditions to improve the yield.

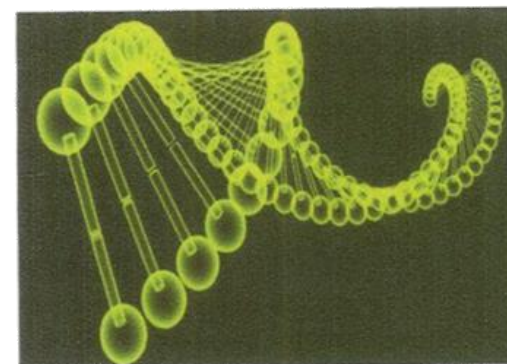


Dr. Sridevi
PRINCIPAL
VIGNAN INSTITUTE OF
PHARMACEUTICAL TECHNOLOGY
Beside VSEZ, Duvvada, Visakhapatnam-45

Value Added Course on Methods of Strain Improvement for Industrially Important Microorganisms

25th to 30th November 2019

Venue: Lecture Hall F-02, First Floor
VIPT



Organized by
Department of Pharmaceutics



VIGNAN
INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

| S.No | Topic | No.of hours |
|--------------|---|-------------|
| 1 | Introduction to oxidative stress | 5 |
| 2 | Oxidative stress and nutrition | 5 |
| 3 | Oxidative stress and herbs | 5 |
| 4 | Best foods to reduce Oxidative stress | 5 |
| 5 | Best herbs to reduce Oxidative stress | 5 |
| 6 | Role of herbs and nutrition in management of diseases | 5 |
| Total | | 30 |

RESOURCE PERSON

Dr. Santosh kumar Ranajit
Associate Professor,
VIPT



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 will enable you to lay the foundation for Pharmacology and help students understand the concept of Oxidative stress and nutrition.

COURSE OUTCOMES

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

1. Understand the role of herbs in Oxidative stress and nutrition .
2. Explain the use of best foods and herbs to prevent oxidative stress, in the management of various diseases

Value Added Course

on HERBAL AND NUTRITIONAL MANAGEMENT OF OXIDATIVE STRESS

20th January 2019 to 25th January 2019

Venue: Lecture Hall-F01 , First Floor, VIPT



Organised by
Department of Pharmacology



VIGNAN

INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

| S.No | Topic | No.of hours |
|------|---|-------------|
| 1 | Introduction to toxicity studies and OECD guideines | 6 |
| 2 | Basics of Toxicokinetics and its statistical interpretation | 8 |
| 3 | Concept of Systemic exposure and toxicity assessment of the drug | 6 |
| 4 | Toxicology studies in safety pharmacology, carcinogenicity and bridging studies | 10 |
| | Total | 30 |

RESOURCE PERSON

Dr. P. Rajeshwara Rao
Principal & Professor
Lydia College of Pharmacy



CO-ORDINATOR

Mrs. Jhansi Laxmi
Assistant Professor,
Vignan Institute Of Pharmaceutical Technology

ASSESSMENT

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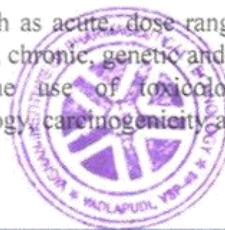
COURSE OBJECTIVES

This course will enable you understand the concept of systemic exposure and toxicity assessment of the drug

COURSE OUTCOMES

Upon completion of the course:

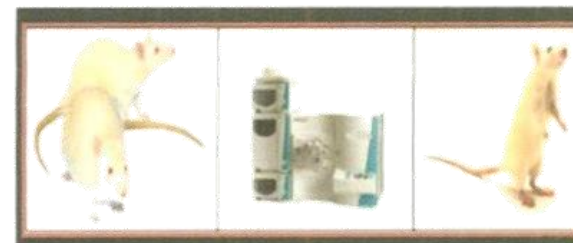
1. Understand the role of different types of toxicology studies such as acute, dose range-finding, repeat dose, subchronic, chronic, genetic and reproductive toxicity.
2. Explain the use of toxicology studies in safety pharmacology, carcinogenicity and bridging studies



Value Added Course on **Toxicokinetic: Assessment and Interpretation**

20st to 25th January 2020

Venue: Lecture Hall-F02, First Floor, VIPT



Organised by
Department of Pharmacology



VIGNAN

INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

| S.No | Topic | No.of hours |
|--------------|--|-------------|
| 1 | Introduction to toxicology | 2 |
| 2 | OECD Guidelines for toxicity studies | 10 |
| 3 | Methods to calculate LD50/LC50 and its limitations | 6 |
| 4 | How OECD guidelines more human, alternatives to use of animal in AOT | 6 |
| 5. | AOT Studies along with its sighting study | 8 |
| Total | | 30 |

RESOURCE PERSON

Dr.K.Eswar Kumar

Associate Professor,
AndhraUniversity



CO-ORDINATOR

Dr.K.Rajkiran

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 enable you to lay the foundation for Pharmacology&Toxicology and help students understand OECD guidelines in toxicity testing

COURSE OUTCOMES

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

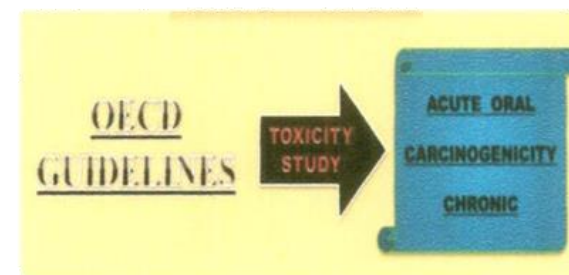
1. Understand, the importance of OECD Guidelines for toxicity testing.
2. Explain the use of LD50 and dose calculations and extrapolations to humans in toxicity testing.

Value Added Course on

OECD guidelines in toxicity testing

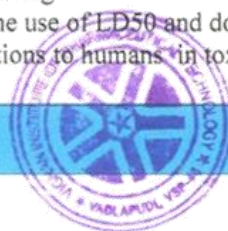
Venue: Seminar Hall, VIPT
20th to 25th January 2020

Venue: Lecture Hall-F03 , First Floor, VIPT



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Department of Pharmacology

VIGNAN
INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM



TOPICS:

| 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. WASIM FEROZ

Assistant Professor,
Vignan Institute of Pharmaceutical Technology



CO-ORDINATOR

Mr. P.SRINU

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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Beside: VSEL, Duvvada, Visakhapatnam-49

Value Added Course

on

INTERPRETATION OF VITAL SIGNS

17th-25th September 2019

Venue: Lecture Hall-S01, Second Floor,
VIPT



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INSTITUTE OF PHARMACEUTICAL TECHNOLOGY

DUVVADA, VISAKHAPATNAM

| S.No | Topic | Number of Hours |
|------|--|-----------------|
| 1 | Welcome to Medical Terminology | 5 |
| 2 | Introduction to Medical Language Records | 5 |
| 3 | Integumentary System | 5 |
| 4 | Musculoskeletal System | 5 |
| 5 | Cardiovascular system | 5 |
| 6 | Urinary system | 5 |
| 7 | Course Final Assessments and Conclusion | 5 |
| | TOTAL | 35 |

RESOURCE PERSON

Dr. Wasim Feroz
Pharm.D
Assistant professor,
Vignan Institute of Pharmaceutical
Technology



CO-ORDINATOR

Dr.V.Swathi
Pharm.D
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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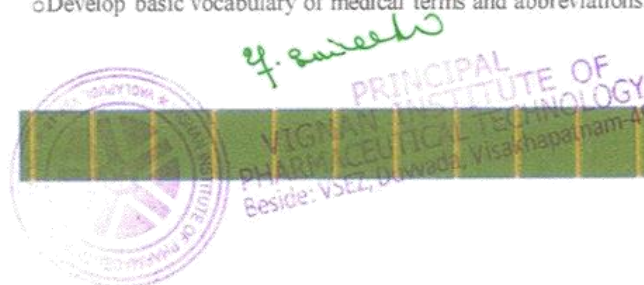
COURSE OBJECTIVE

The purpose of this course is for better understanding of Medical Terminologies and help students to develop basic vocabulary of medical terms and abbreviations.

COURSE OUTCOMES

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

- Identify and define prefixes, roots, and suffixes in order to combine forms of terminology.
- Identify major body structure and functions that reinforces knowledge of basic anatomy and physiology.
- It helps you learn the proper terminology for major diseases and pathological conditions as well as each system of the body.
- Develop basic vocabulary of medical terms and abbreviations.



Value Added Course
on

MEDICAL TERMINOLOGIES

Date: 16th-25th August 2019

Venue: Lecture Hall – S03, Second Floor, VIPT.



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Practice



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DUVVADA, VISAKHAPATNAM

Topic:

| S.No | Topic | No. of Hours |
|-------|---|--------------|
| 1 | Introduction to the biology of cancer | 5 |
| 2 | Understanding cancer metastasis | 5 |
| 3 | Understanding cancer-Incidence, Risk Factors | 5 |
| 4 | Biology, Incidence, and Risk Factors for Cancer | 5 |
| 5 | Diagnosis and staging of cancer | 5 |
| 6 | Localized Cancer treatment | 5 |
| 7 | Treatment of Metastatic Cancer | 3 |
| TOTAL | | 35 |

RESOURCE PERSON

Mr. KRVS Chaitanya

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 understanding Cancer Course should be helpful to anyone who wants to develop a deeper understanding of prostate cancer biology and treatment. It should be useful to students who are interested in a deeper understanding of the science of cancer.

COURSE OUTCOMES

Upon completion of the course:

- Describe the risk factors for the major cancers worldwide, including lung cancer, breast cancer, colon cancer, prostate cancer, liver cancer, and stomach cancer.
- Explain how cancer is staged, the major ways cancer is found by imaging, and how the major cancers are treated.



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Beside: VSEC, Duvvada, Visakhapatnam-49

Value Added Course

on

Screening tests for cancer

11th-19th June 2019

Venue: Lecture Hall S04, Second Floor VIPT



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Department of Pharmacy Practice



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DUVVADA, VISAKHAPATNAM

Topics:

| S.No | Topic | No. of Hours |
|------|------------------------------|--------------|
| 1 | Introduction-Features of CBT | 5 |
| 2 | Human Emotions | 5 |
| 3 | Levels of Change | 5 |
| 4 | Counselling Skills | 5 |
| 5 | Counselling Approaches | 5 |
| 6 | CBT Principles | 5 |
| 7 | CBT Sessions | 5 |
| | Total | 35 |

RESOURCE PERSON

Dr. WASIM FEROZ

Assistant Professor,
Vignan Institute of Pharmaceutical Technology



CO-ORDINATOR

Mr. M.VINOD KUMAR

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 teach you a wide range of CBT techniques. These will help you to identify and change any of your own thoughts and behaviors that may be limiting your progress in life.

COURSE OUTCOMES

Upon completion of the course:

- Identify the principles and methods of CBT
- Discuss current research
- List benefits and limitations of CBT,
- Conceptualize a case from a CBT framework



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Beside: V&E, Duvvada, Visakhapatnam-49

Value Added Course

on

Cognitive Behavioral Therapy

24th June- 01st July 2019

Venue: Lecture Hall-F08, First Floor, VIPT.



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DUVVADA, VISAKHAPATNAM

TOPICS:

| S.No | Topic | No. of Hours |
|-------|--|--------------|
| 1 | Introduction and aims of Pharmacovigilance | 5 |
| 2 | Adverse drug reaction | 5 |
| 3 | Medication error | 5 |
| 4 | Adverse drug event | 5 |
| 5 | Stakeholders involved in Pharmacovigilance | 5 |
| 6 | Causality Assessment and Signal Detection | 5 |
| 7 | Pharmacovigilance in India | 5 |
| Total | | 35 |

RESOURCE PERSON

Mr. M.VINOD KUMAR

Assistant Professor,
Vignan Institute of Pharmaceutical Technology



CO-ORDINATOR

Mr. P.SRINU

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 basic objective of pharmacovigilance is the safe use of drugs, patient safety, and, ultimately, safeguarding public health.
- Pharmacovigilance can be defined as the science and activities concerned with the detection, assessment, understanding and prevention of adverse reactions to medicines (i.e. adverse drug reactions or ADRs).

COURSE OUTCOMES

Upon completion of the course:

- Describe basic concepts, and establishment of Pharmacovigilance.
- Assessing the known and potential risks of each medicine before marketing and developing plans to collect data and minimize those risks (risk management planning).

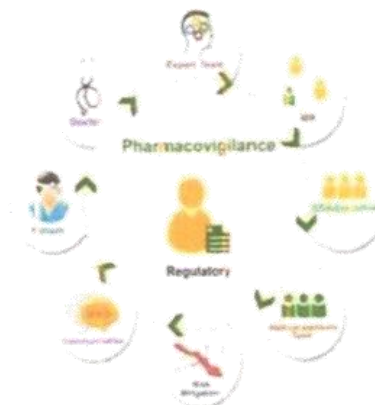
Value Added Course

on

Fundamentals of Pharmacovigilance

01st - 10th July 2019

Venue: Lecture Hall-F08, First Floor, VIPT



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Beside: VSEZ, Duvvada, Visakhapatnam-49

| S.No. | Topics | Number of Hrs |
|-------|---|---------------|
| 1 | Introduction to Biomedical Nanotechnology | 5 |
| 2 | Characterisation of nanomaterials | 5 |
| 3 | Nanomaterials for cancer diagnosis | 5 |
| 4 | Nano artificial cells, Nanotechnology in organ printing | 5 |
| 5 | Cellular uptake mechanism of nanomaterials | 5 |
| 6 | implants and prostheses | 5 |
| 7 | Trends in Biomedical Nanotechnology Programs Worldwide | 5 |
| | Total | 35 |

RESOURCE PERSON

Dr. S. Satya Lakshmi,
Associate Professor,
Vignan institute of pharmaceutical technology



CO-ORDINATOR

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

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

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COURSE OBJECTIVES

- The main objective of this course is to impart knowledge on biomedical applications of nanotechnology.
- ultimate goal of personalized health management
- Nanotechnology assisted drug delivery systems have demonstrated site-specific delivery and drug release to manage targeted diseases

COURSE OUTCOMES

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

- Apply nanotechnology in all the medical fields
- Synthesize nanomaterials by various methods
- Understand about DNA nanotechnology
- Characterize nanomaterials
- Analyze in vitro methods to study antibacterial and anticancer properties of nanomaterials

Value Added Course On

BIOMEDICAL NANOTECHNOLOGY

23rd September to 1st October, 2019

Venue: Tutorial Room -01, Second Floor, VIPT



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DUVVADA, VISAKHAPATNAM



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Beside: VSEZ, Duvvada, Visakhapatnam-53

Name of the Topic**Hours**

| | |
|---|-----------|
| Metabolomics Analytical Technologies | 5 |
| NMR Spectroscopy | 5 |
| Mass Spectrometry | 5 |
| Chemometrics Methods | 5 |
| Statistical Spectroscopy for Biomarker Identification | 5 |
| Standards and Reporting Needs in Metabolomics | 5 |
| Pharmaceutical R&D Metabolomics Applications | 6 |
| Total | 36 |

RESOURCE PERSON**Mr. K. Varaprasada Rao**

Vignan Institute of Pharmaceutical Technology

**COORDINATOR****Dr. D. Vasudha**

Associate Professor

Vignan Institute of Pharmaceutical Technology

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

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COURSE OBJECTIVE

To train the students in skills required for Research and Development and certification will be provided after successful completion.

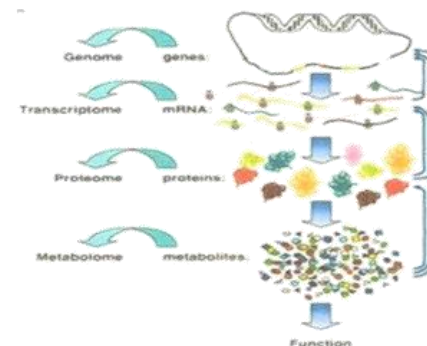
COURSE OUTCOMES

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

- Understand the principles of Metabolomics.
- Develop Research Skills.
- Knowledge of various analytical Instruments required for R&D.
- Pharmaceutical R&D Metabolomics applications.



Value Added Course On **Metabolomics in Pharmaceutical R&D**

14th -22nd Oct 2019**Venue: Tutorial Room – 02,
Third Floor, VIPT**

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Analysis****VIGNAN**INSTITUTE OF PHARMACEUTICAL TECHNOLOGY
DUVVADA, VISAKHAPATNAM

TOPICS:

| S. No | Topics | Number of Hrs |
|-------|---|---------------|
| 1 | Introduction | 4 |
| 2 | Mechanism of respiration | 4 |
| 3 | Risk factors effecting respiration | 4 |
| 4 | Mechanical ventilation | 5 |
| 5 | Mechanical ventilation and its application | 5 |
| 6 | Respiratory therapy Applications of respiratory therapy | 5 |
| 7 | Applications of respiratory therapy | 5 |
| 8 | Significance of the course | 3 |
| | Total | 35 |

RESOURCE PERSON

Dr. K. Eswar Kumar
Assistant Professor
A.U. College of Pharmaceutical sciences

COORDINATOR

Dr. K. Raj Kiran,
Professor
Department of pharmacology,
Vignan institute of Pharmaceutical Technology



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

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COURSE OBJECTIVE

The course is framed to make students gain knowledge about risk factors which effect respiration process and need for mechanical ventilation cum respiratory therapy.

COURSE OUTCOMES

Upon completion of the course

1. Understand the various risk factors which effect respiration
2. Explain the process of mechanical ventilation
3. Explore various method of respiratory therapy



Dr. Eswar Kumar

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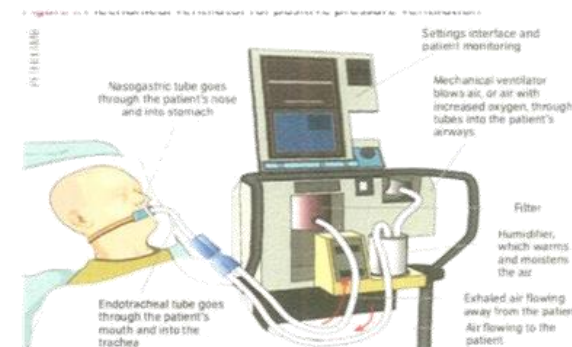


Value Added Course On

“Mechanical ventilation cum Respiratory therapy”

21st to 29th October 2019

Venue: Tutorial Hall F03, VIPT



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DUVVADA, VISAKHAPATNAM

| S.No | Topic | No. of hours |
|-------|--|--------------|
| 1 | Introduction | 5Hrs |
| 2 | Guidelines of Statistical Analysis of Experiments Using Laboratory Animals | 5Hrs |
| 3 | Designs for the Statistical interpretation | 5Hrs |
| 4 | Research strategy and the use of models in research | 5Hrs |
| 5 | Experimental designs | 3Hrs |
| 6 | Randomisation | 4Hrs |
| 7 | Statistical analysis of planned experiments | 4Hrs |
| 8 | Analysis using InVivoStat | 4Hrs |
| Total | | 35 |

RESOURCE PERSON

Dr. K. Rajkiran
Professor,
Vignan Institute of Pharmaceutical Technology



CO-ORDINATOR

Mr. P. Srinu
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 description of animals, experimental designs, Randomisation trials and statistical methods used.

COURSE OUTCOMES

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

1. Understand the reason for choosing their particular animal model;
2. Describe the Guidelines, designs & randomisation trials in interpretation studies on laboratory animals.
3. Describe the objectives of the research and/or the hypotheses, and other statistical methods used for analysis to be tested;
4. Explain the species, strain, source, and type of animal used;
5. Analyse the professional and safety responsibilities for working in the analysis laboratory



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Address: VSEZ, Duvvada, Visakhapatnam-46

Value Added Course on Statistical Interpretation on Animal studies

20th to 28th January 2020

Venue: Tutorial Room-01, Third Floor, VIPT



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DUVVADA, VISAKHAPATNAM