



VIGNAN INSTITUTE OF PHARMACEUTICAL TECHNOLOGY

Beside VSEZ, Duvvada, Visakhapatnam-530049

Summary Report on Add on /Certificate/ Value Added Programs for Academic Year 2019-2020

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VALUE ADDED COURSE

on

RETINOIDS

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 23rd Sep 2019 to 28th Sep 2019 . The course was conducted on “ **RETINOIDS** “. The resource person for the course is **Prof. Girija Sastry Vedula** , Department of Pharmaceutical Chemistry Andhra university College of Pharmaceutical Sciences, Visakhapatnam, A.P, India. The course started on 23rd Sep 2019 with the welcome address by the coordinator **Mr.A.Kanka Raju Associate Professor** and introduced the resource person. It ended on 28th Sep 2019 with concluding remarks by the resource person. A total of 28 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective:

This course will Summarize the all aspects related to Retinoid biosynthesis, metabolism, clinical applications and the role of retinoids in visual transduction.

Course Outcomes:

Upon completion of the course:

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



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Name of the Value added Course: **RETINOIDS**

Date: 23rd to 28th Sep 2019

Latitude	17.717849 ⁰
Longitude	83.194059 ⁰



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hrs
23 rd sep 2022 1.00PM-6.00PM	Introduction, Clinical Applications	5
24 th sep 2022 1.00PM-6.00PM	Retinoid Biosynthesis	5
25 th sep 2022 1.00PM-6.00PM	Retinoid Metabolism	5
26 th sep 2022 1.00PM-6.00PM	Role of Retinoids in visual signal Transduction	5
27 th sep 2022 1.00PM-6.00PM	Functional Domains of Retinoic acid receptors	5
28 th sep 2022 1.00PM-6.00PM	Future Perceptives	5
Total		30


CO-ORDINATOR


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VALUE-ADDED COURSE

on

PHARMACEUTICAL MANUFACTURING AND EMERGING TECHNOLOGIES

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 23rd to 28th september 2019. The course was conducted on "**Pharmaceutical manufacturing and emerging technologies**". The resource person for the course is **Dr. J. Vijaya Ratna**, Professor, VIPT. The course started on 23rd September 2019 with the welcome address by the coordinator and introductory remarks by the head of the Department **Dr P.V. Kamala Kumari** and the resource person. It ended on 28th September 2019 with concluding remarks by the resources person. A total of 28 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective:

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:

- Process understanding
- Production planning
- Continuous manufacturing
- Investment planning



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Name of the Value added Course: **Pharmaceutical manufacturing and emerging technologies**

Date: **23rd to 28th september 2019**

Latitude	17.111635 ⁰
Longitude	83.112108 ⁰



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
23 rd September 2019 01:00 to 06:00PM	Challenges for pharmaceutical manufacturing Definition, types of manufacturing methods , Production problems, General considerations, advantages	5 Hrs
24 th September 2019 01:00 to 06:00PM	Fundamental tools for increased process understanding, Risk management Risk register, Root cause analysis, Risk data quality assessment	5 Hrs
25 th September 2019 01:00 to 06:00PM	Design of experiment, Mechanistic process modelling Factorial designs, fractional factorial designs, Levels and factors in designs	5 Hrs
26 th September 2019 01:00 to 06:00PM	Fluidic systems and multiple flows, Particle based systems Study of various factors that affect flow, Unit operations, Flow parameters	5 Hrs
27 th September 2019 01:00 to 06:00PM	Production planning and scheduling, Capacity and investment planning Forecast the demand of your product, determine potential options for production, choose the option for production that use the combination of resources more effectively, monitor and control	5 Hrs
28 th September 2019 01:00 to 06:00PM	Technologies for continuous drug product manufacturing Steps towards continuous manufacturing, recent advances, crystallization, filtration, powder blending, tableting	5 Hrs
Total		30 Hrs

P.V. *P. V. Venkatesh*
CO-ORDINATOR

P. V. Venkatesh
PRINCIPAL



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VALUE ADDED COURSE

on

Organometallic Chemistry

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 23.09.19 to 28.09.19. The course was conducted on "*Organometallic Chemistry*". The resource person for the course is **Dr. P. V. Madhavi Latha**, Associate Professor, Department of Pharmaceutical Analysis, VITAM College, Visakhapatnam, A.P, India. The course started on 23rd September 2019 with the welcome address by the co-ordinator **Dr. P. Chiranjeevi**, Associate Professor and introduced the resource person. It ended on 28th September 2019 with concluding remarks by the resource person. A total of 28 students participated and completed the course. The overall feedback from the participants was very good.

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, the student will be able to achieve the following outcomes:

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



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Name of the Value added Course: Organometallic Chemistry	
Date: 23.09.19 to 28.09.19	
Latitude	17.711748°
Longitude	83.164124°



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PROGRAM SCHEDULE


Date& Time	Topic	No. of Hours
23.09.19 9:30-12.30 PM & 2:00-4:00 PM	Introduction of Organometallic Chemistry Ligand Substitution Reactions, Oxidative Addition	5
24.09.19 9:30-12.30 PM & 2:00-4:00 PM	Reductive Elimination, Migratory Insertion & Elimination Reactions, Alpha-Migratory Insertion & Alpha-Elimination Reactions	5
25.09.19 9:30-12.30 PM & 2:00-4:00 PM	Beta-Migratory Insertion & Elimination Reactions, Alpha-Abstraction & Beta-Abstraction	5
26.09.19 9:30-12.30 PM & 2:00-4:00 PM	4-Center Reactions [2+2] Reactions, External Attack by a Ligand & Reductive Coupling	5
27.09.19 9:30-12.30 PM & 2:00-4:00 PM	Hydrogenation Reaction, Stereoselective Hydrogenation Reaction	5
28.09.19 9:30-12.30 PM & 2:00-4:00 PM	Carbonylation Reaction	5
Total		30


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VALUE ADDED COURSE

on

ROLE OF MICROBES IN BIOLOGICAL AND BIOTECHNOLOGICAL WASTE MANAGEMENT

SUMMARY REPORT

A Value Added Course for B. Pharmacy Students organized by the Department of Pharmaceutics at Vignan Institute of Pharmaceutical Technology from 5th August to 13th August 2019. The course was conducted on "Role of Microbes in Biological and Biotechnological Waste Management". The resource person for the course is **Mr. B. Rama Rao**, Assistant Professor, Vignan Institute of Pharmaceutical Technology, Andhra Pradesh. The course started on 5th August, 2019 with the welcome address by the coordinator, Dr. S. Satya Lakshmi, VIPT. It ended on 13th August, 2019 with concluding remarks by the source 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 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.



Name of the Value added Course: **Role of Microbes in Biological and Biotechnological**
Date: **5th to 13th August 2019**

Latitude	17.71184°
Longitude	83.164141°

PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
05 th August 2019 01:00PM to 06:00PM	Introduction- Role of Microbes	5
06 th August 2019 01:00PM to 06:00PM	Microorganisms suitable for waste treatment	5
07 th August 2019 01:00PM to 06:00PM	Methods of treatment	5
08 th August 2019 01:00PM to 06:00PM	Hazardous and Non-hazardous biological waste	5
09 th August 2019 01:00PM to 06:00PM	Safety measures and training	5
13 th August 2019 01:00PM to 06:00PM	Equipments for waste treatment	5
Total		30 Hours

S. Satyalakshmi
CO-ORDINATOR

Y. Srinivasulu
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VALUE-ADDED COURSE

on

“Medical emergencies”

SUMMARY REPORT

A Value-Added Course for B. Pharmacy 2nd Year Students was organized by the Department of Pharmaceutical analysis at Vignan institute of pharmaceutical technology 05-08-2019 to 13-08-2019. The course was conducted on “Vignan Institute of Pharmaceutical Technology”, Duvvada, Visakhapatnam. The resource person for the course is **Mr. Vinod Kumar M**, Asst. Professor, Vignan Institute of Pharmaceutical Technology, Visakhapatnam, Andhra Pradesh. The course started on 05.08.19 with the welcome address by the coordinator **Mr. Koppala RVS Chaitanya, VIPT**. It ended on 13.09.18 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 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



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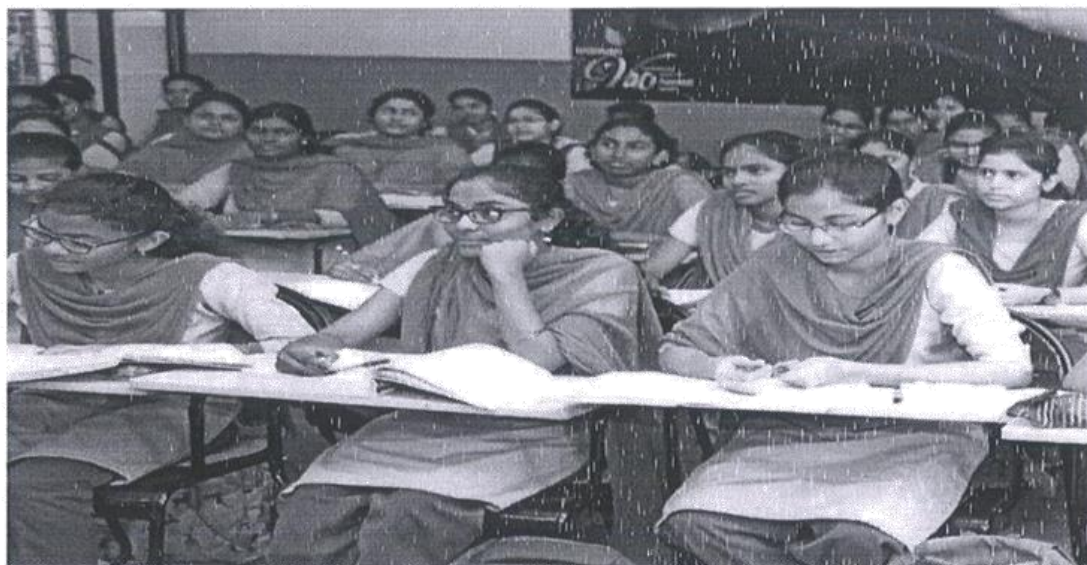
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PROGRAM SCHEDULE



Name of the Value added Course: **Medical emergencies**

Date: 05-08-2019 to 13-08-2019

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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
05.08.2019	Introduction & Overview Airway Management	5 hrs
06.08.2019	Trauma Emergencies	5 hrs
07.08.2019	Wounds & Analgesia	5 hrs
08.08.2019	Medical Emergencies	5 hrs
09.08.2019	Surgical Emergencies	5 hrs
13.08.2019	Transfusion Emergencies Environmental Emergencies	5 hrs
Total		30 Hrs



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VALUE-ADDED COURSE

on

ADR reporting and monitoring

SUMMARY REPORT

A Value-Added Course for IIB.Pharmacy-ISemester Students of Pharmaceutical Analysis was organized by the Department of Pharmacology at Vignan institute of Pharmaceutical Technology from 05.08.2019 to 13.08.2019. The course was conducted on "*ADR reporting and monitoring*". The resource person for the course is Dr.K.Rajkiran, Professor, Department of Pharmacology, Vignan institute of Pharmaceutical Technology, Duvvada, Visakhapatnam, A.P, India. The course started on 05/08/2019 with the welcome address by the coordinator Mrs.V.Jhansi Lakshmi and introduced the resource person. It ended on 13/08/2019 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:

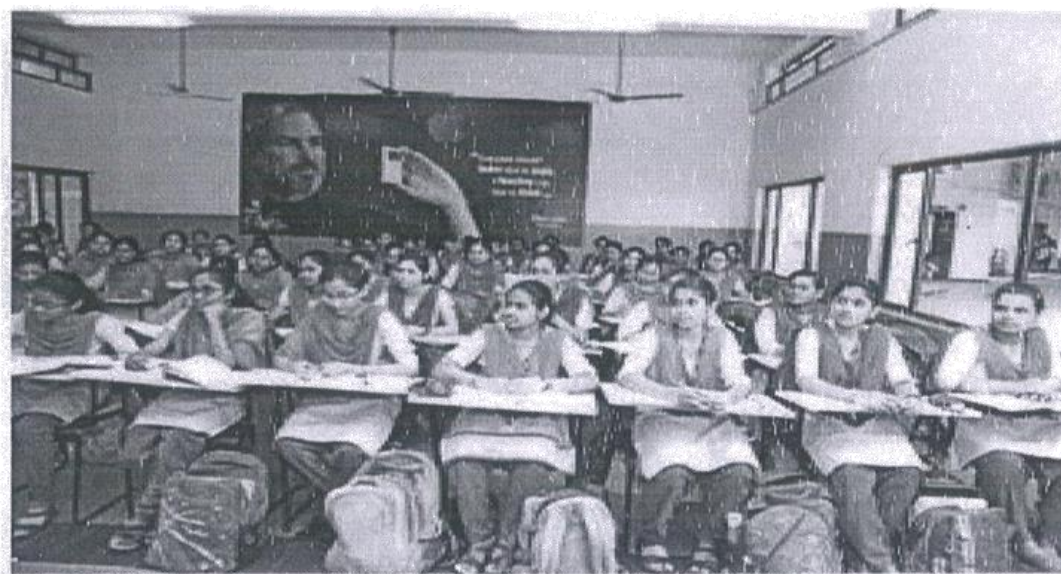
- To disseminate knowledge on Adverse drug reaction reporting and management
- To disseminate knowledge on Oracle Argus software.

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

- Understand the classification of adverse reactions
- Explore the Awareness of why having a knowledge of adverse drug reactions is central to Pharmacovigilance.
- Understand the monitoring and evaluation of safety in clinical trials
- Understand spontaneous reporting of ADRs and its strengths and weaknesses
- Enumerate what safety issues need to be monitored and the appropriate methods and tools to use
- Explain what safety data needs to be reported and when and how this should be done



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Name of the Value added Course: <i>ADR reporting and monitoring</i>	
Date: 05.08.2019 to 13.08.2019	
Latitude	17.71185 ⁰
Longitude	83.164141 ⁰

PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
05.08.2019 10:30-12:30PM 1:30-5:30PM	Introduction and Classification of ADR Describe the elements of a valid SAE report. Indicate why Adverse Events are collected. Define and differentiate between: Adverse Events Serious Adverse Events Adverse Drug Reaction	6Hrs
06.08.2019 07.08.2019 10:30-12:30PM 1:30-3:30PM	Spontaneous reporting and observational studies and Management Events and Serious Adverse Event follow-up information in clinical trials. Explain the correct sequence of information flow in the Serious Adverse Event reporting process.	8 Hrs
08.08.2019 10:30-12:30PM 1:30-5:30PM	ADR Reporting forms of various Countries Medwatch Suspected ADR Reporting form Yellow card	6 Hrs
09.08.2019 13.08.2019 11:30-12:30PM 01:30-05:30 PM	Case studies on ADR Empirical Studies of ADR	10Hrs
Total		30Hrs

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VALUE ADDED COURSE

on

MONOCLONAL ANTIBODIES, PROTEINS AND NUCLEIC ACID METABOLISM AND ITS ROLE IN DRUG TARGETING

SUMMARY REPORT

A Value Added Course for B. Pharmacy Students organized by the Department of Pharmaceutics at Vignan Institute of Pharmaceutical Technology from 25th November to 30th November 2019. The course was conducted on “**Monoclonal Antibodies, Proteins and Nucleic Acid Metabolism and its Role in Drug Targeting**”. The resource person for the course is **Dr. P.V. Kamala Kumari, Professor**, Vignan Institute of Pharmaceutical Technology, Andhra Pradesh. The course started on 25th November, 2019 with the welcome address by the coordinator Dr. S. Satya Lakshmi. It ended on 30th November, 2019 with concluding remarks by the source person. A total of 28 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 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.



Name of the Value added Course: **Monoclonal Antibodies, Proteins and Nucleic Acid Metabolism and its Role in Drug Targeting**
Date: 25th to 30th November 2019

Latitude	17.71184°
Longitude	83.164141°

PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
25 th November 2019 01:00PM to 06:00PM	Introduction - Types of diseases - Sources of infection	5
26 th November 2019 01:00PM to 06:00PM	Monoclonal Antibodies - Types - Role in infection	5
27 th November 2019 01:00PM to 06:00PM	Proteins & Nucleic Acids - Definition - Classification	5
28 th November 2019 01:00PM to 06:00PM	Drug Targeting - Introduction - Selection of targets	5
29 th November 2019 01:00PM to 06:00PM	Mechanism and metabolism Merits and demerits - Action of Monoclonal Antibodies - Merits & Demerits of Monoclonal Antibodies	5
30 th November 2019 01:00PM to 06:00PM	Applications in Pharma industry.	5
Total		30 Hours

S. Satya Lakshmi
CO-ORDINATOR

Y. Suresh
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VALUE-ADDED COURSE on Chemotaxonomy and Chemical Markers 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 25th to 30th November 2019. The course was conducted on “**Chemotaxonomy and Chemical Markers**”. The resource person for the course is **Dr P. Balakrishnaiah**, Associate professor, Vignan Institute of Pharmaceutical Technology. He has experience to train students and industrial persons in Global Regulatory Framework. The course started on 25th November 2019, with the welcome address by the coordinator and introductory remarks by the Coordinator Dr. Gana Manjusha K and the resource person. It ended on 30th November 2019, 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: Chemotaxonomy also called chemosystematics, is used to classify and identify organisms (mainly plants), according to perceptible differences and similarities in their biochemical compositions. The compounds studied in all cases are either primary metabolites or secondary metabolites (SMs). Chemotaxonomy contributes to the classification of plants when uncertainty exists using classical botanical methods. Chemosystematics can be regarded as a fusion science that complements available morphological and molecular data to improve plant systematic and to facilitate pharmaceutical resource discovery.

Course Outcomes:

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

- Understand chemotaxonomical classification of plant sources.
- Explain role of markers in the synthesis of secondary metabolites.
- Explain morphological data to facilitate pharmaceutical drug discovery.



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Name of the Value added Course: **Chemotaxonomy and Chemical Markers**

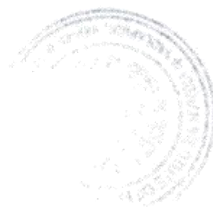
Date: **25th to 30th November 2019**

Latitude	17.71184°
Longitude	83.164141°

PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
25 th November 2019 01:00 to 06:00PM	Selection of markers	5
26 th November 2019 01:00 to 06:00PM	components coupled with 'fingerprints'	5
27 th November 2019 01:00 to 06:00PM	Applications of Chemical Markers	5
28 th November 2019 01:00 to 06:00PM	Classification of Secondary metabolites	5
29 th November 2019 01:00 to 06:00PM	Stability test of proprietary products	5
30 th November 2019 01:00 to 06:00PM	Future Prospects	5
Total		30

Gana R. R. R.
CO-ORDINATOR



Y. Srinivas
PRINCIPAL

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VALUE ADDED COURSE on METHODS OF STRAIN IMPROVEMENT FOR INDUSTRIALLY IMPORTANT MICROORGANISMS

SUMMARY REPORT

A Value Added Course for B. Pharmacy Students organized by the Department of Pharmaceutics at Vignan Institute of Pharmaceutical Technology from 25th November to 30th November 2019. The course was conducted on "**Methods of strain improvement for industrially important microorganisms**". The resource person for the course is **Dr. P.V. Kamala Kumari, Associate Professor, Vignan Institute of Pharmaceutical Technology**. The course started on 25th Nov, 2019 with the welcome address by the coordinator, **Mr. B. Rama Rao, VIPT**. It ended on 30th Nov, 2019 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 make the students aware of advantages of improved strains over wild strains, methods of strain improvement, selection of improved strains, and 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.



24-11-2019
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Name of the Value added Course: **Methods of strain improvement for industrially important microorganisms**

Date: 25th to 30th November 2019

Latitude	17.71189°
Longitude	83.164138°

PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
25/11/19 01:00PM to 06:00PM	Introduction	5
26/11/19 01:00PM to 06:00PM	Methods of strain improvement	5
27/11/19 01:00PM to 06:00PM	Regulatory mechanism of improved strains	5
28/11/19 01:00PM to 06:00PM	Selection methods for improved strains	5
29/11/19 01:00PM to 06:00PM	Industrial production by improved strains	5
30/11/19 01:00PM to 06:00PM	Application of improved strains in commercialization	5
Total		30 Hours



CO-ORDINATOR




PRINCIPAL

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VALUE-ADDED COURSE

on

Herbal and nutritional management of oxidative stress SUMMARY REPORT

A Value-Added Course for IVB.Pharmacy–II Semester Students was organized by the Department of Pharmacology at Vignan institute of Pharmaceutical Technology from 20th jan 2020 to 25th jan 2020 . The course was conducted on **“HERBAL AND NUTRITIONAL MANAGEMENT OF OXIDATIVE STRESS”**.The resource person for the course is **Dr.Santosh kumar Ranajit**, Associate Professor, Department of Pharmaceutical Analysis,Vignan institute of Pharmaceutical Technology, Duvvada,Visakhapatnam, A.P, India.The course started on 20th jan2020 with the welcome address by the coordinator **Mrs.V. Jhansi Lakshmi** and introduced the resource person. It ended on 25th jan2020 with concluding remarks by the resource person. A total of 29 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective:

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

Course Outcomes:

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

- The students once they complete their academic projects, This course will lay the foundation for Pharmacology and help students understand the concept of Oxidative stress and nutrition.



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Name of the Value added Course: **HERBAL AND NUTRITIONAL
MANAGEMENT OF OXIDATIVE STRESS**

Date: 20th to 25th Jan 2020

Latitude	17.71186 ⁰
Longitude	83.164142 ⁰



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
20.01.2020 01:00-06:00PM	Introduction to oxidative stress Mechanism of Oxidative stress	5Hrs
21.01.2020 01:00-06:00PM	Oxidative stress and nutrition Nutraceuticals and oxidative stress	5Hrs
22.01.2020 01:00-06:00PM	Oxidative stress and herbs Total amount of anti oxidants in herbs and spices	5Hrs
23.01.2020 01:00-06:00PM	Best foods to reduce Oxidative stress Dietary Regulation of Oxidative Stress in Chronic Metabolic Diseases Mediterranean Diet Oral Dietary Control of Oxidative Stress Diet in Type 2 Diabetes Mellitus (T2DM)	5Hrs
24.01.2020 01:00-06:00PM	Best herbs to reduce Oxidative stress Total antioxidant content of foods and drinks: largest density of antioxidants contained in spices and herbs	5Hrs
25.01.2020 01:00-06:00PM	Role of herbs and nutrition in management of diseases Oxidative Stress and Obesity Oxidative Stress and Neurodegenerative Diseases Oxidative Stress and Immune Inflammation Diet in Cardiovascular Disease Dietary Pattern in Chronic Diseases and Oxidative Stress	5Hrs
Total		30Hrs

V. Jha
CO-ORDINATOR

Y. Subash
PRINCIPAL



Y. Subash
PRINCIPAL
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Beside VSEZ, Kapujaggaraju Peta Duvvada, Visakhapatnam-530049. A.P

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VALUEADDED COURSE on Toxicokinetic: Assessment and Interpretation

SUMMARY REPORT

A Value added course for IVth B.Pharmacy -IISemester Students of B.Pharmacy was organized by the Department of Pharmacology at Vignan institute of Pharmaceutical Technology from 20th jan 2020 to 25th jan 2020. The course was conducted on "*Toxicokinetic: assessment and interpretation*". The resource person for the course is Dr. P. Rajeswara Rao, **Principal & Professor, Lydia College of Pharmacy, A.P.** The course started on 20th jan 2020 with the welcome address by the coordinator **Mrs.V.Jhansi Lakshmi VIPT** and introduced the resource person. It ended on 25th jan 2019 with concluding remarks by the resource person. A total of 29 students participated. The overall feedback from the participants was very good.

Course Objectives:

- To Disseminate Knowledge On Toxicity Studies And OECD Guideines
- To Disseminate Knowledge On Toxicokinetics And Its Statistical Interpretation
- To Disseminate Knowledge On Systemic Exposure And Toxicity Assessment Of The Drug.
- To Disseminate Knowledge On Toxicology Studies In Safety Pharmacology, Carcinogenicity And Bridging Studies .

Course Outcomes:

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

- The students once they complete their academic projects, shall get an adequate knowledge on role of different types of toxicology studies such as acute, dose range-finding, repeat dose, subchronic .
- Explain the use of toxicology studies in safety pharmacology, carcinogenicity and bridging studies.

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Name of the Value added Course: **Toxicokinetic: assessment and interpretation**
Date: **20th to 25th Jan 2020**

Latitude	17.71187 ⁰
Longitude	83.164641 ⁰



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PROGRAM SCHEDULE


Date& Time	Topics	No. of Hours
20 th Jan 2020 1:00- 6:00PM	Introduction to toxicity studies and OECD guidelines Oecd guidelines for acute oral toxicity Methods to calculate LD50	5 Hrs
21 st Jan 2020 1:00- 6:00PM	Basics of Toxicokinetics and its statistical interpretation	5 Hrs
22 nd Jan 2020 1:00- 6:00PM	Toxicokinetics in relation to Pharmacokinetics Factors determining the severity of toxicity Statistical interpretation	5 Hrs
23 rd Jan 2020 1:00- 6:00PM	Concept of Systemic exposure and toxicity assessment of the drug Standards, guidelines, and guidance for acute systemic toxicity testing. Current requirements for animal testing and flexibility for the use of alternatives. Acceptance of alternative methods and approaches to determine acute toxicity	5 Hrs
24 th Jan 2020 1:00- 6:00PM	Toxicology studies in safety pharmacology, carcinogenicity and bridging studies	5 Hrs
25 th Jan 2020 1:00- 6:00PM	General Considerations In Selection And Design Of Safety Pharmacology Studies. Chemical carcinogenesis Mechanism of action. Bridging or Waiving Data Requirements	5 Hrs
Total		30Hrs


CO-ORDINATOR




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VALUE-ADDED COURSE on OECD guidelines in toxicity testing

A Value-Added Course for IVB.Pharmacy-II Semester Students of B.Pharmacy was organized by the Department of Pharmacology at Vignan institute of Pharmaceutical Technology from 20th jan 2020 to 25th jan 2020. The course was conducted on "*OECD guidelines in toxicity testing*". The resource person for the course is **Dr.K.Eswar Kumar**, Associate Professor, Department of Pharmaceutical Analysis, Vignan institute of Pharmaceutical Technology, Duvvada, Visakhapatnam, A.P, India. The course started on 20th jan 2020 with the welcome address by the coordinator **Dr.K.Rajkiran**, introduced the resource person. It ended on 25th jan 2020 with concluding remarks by the resource person. A total of 29 students participated. The overall feedback from the participants was very good.

Course Objective:

This course 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:
 - Understand, the importance of OECD Guidelines for toxicity testing.
- Explain the use of LD50 and dose calculations and extrapolations to humans in toxicity testing



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Name of the Value added Course: OECD guidelines in toxicity testing
Date: 20th to 25th Jan 2020

Latitude	17.711187 ⁰
Longitude	83.164641 ⁰



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
20 th Jan 2020 1:00- 6:00PM	Introduction to toxicology	5 Hrs
21 st Jan 2020 1:00- 6:00PM	OECD Guidelines for toxicity studies	5 Hrs
22 nd Jan 2020 1:00- 6:00PM	Methods to calculate LD50/LC50 and its limitations	5 Hrs
23 rd Jan 2020 1:00- 6:00PM	How OECD guidelines more human, alternatives to use of animal in AOT	5 Hrs
24 th Jan 2020 1:00- 6:00PM	AOT Studies along with its sighting study	5 Hrs
25 th Jan 2020 1:00- 6:00PM	Introduction to toxicology	5 Hrs
Total		30Hrs



CO-ORDINATOR




PRINCIPAL

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PRINCIPAL
VIGNAN INSTITUTE OF
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Value Added Course on Interpretation of Vital Signs 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 17th to 25th September 2019. The course was conducted on “**Interpretation Of Vital Signs**”. The resource person for the course is **Dr. Wasim Feroz**, Assistant Professor, Vignan Institute Of Pharmaceutical Technology, Visakhapatnam, Andhra Pradesh. The course started on **17-09-2019** with the welcome address by the coordinator and introductory remarks by the head of the Department **Dr. K. Rajkiran** and the resource person. It ended on **25-09-2019** 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: 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.

Y. Srinivas

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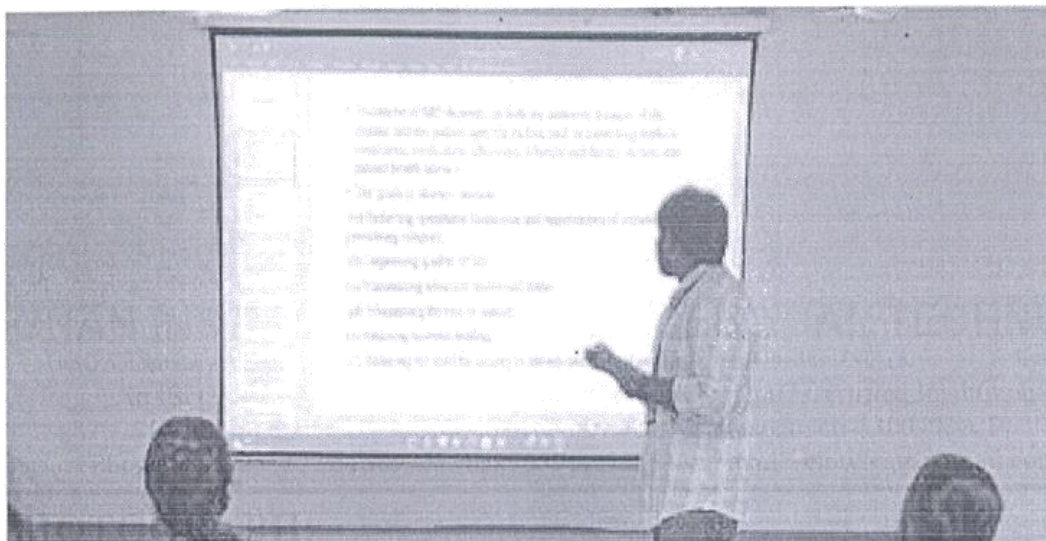
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PHOTOGRAPH:



Vignan Institute of Pharmaceutical Technology, Duvvada, Visakhapatnam,
Andhra Pradesh 530049

Latitude	17.711645 ⁰
Longitude	83.164108 ⁰



Vignan Institute of Pharmaceutical Technology, Duvvada, Visakhapatnam,
Andhra Pradesh 530049

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Longitude	83.164108 ⁰



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
17-09-2019 11AM to 1:00PM & 02:00 to 05:00PM	Introduction to vital signs Clinical significance, major abbreviations and definitions, variations in vital signs.	05
18-09-2019 11AM to 1:00PM & 02:00 to 05:00PM	Interpretation of Pulse/Heart Rate Definitions, normal values, tachycardia, bradykardia, measurement techniques, interpretation.	05
19-09-2019 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
20-09-2019 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
23-09-2019 11AM to 1:00PM & 02:00 to 05:00PM	Interpretation of Temperature Definition, different homeostatic mechanisms, hyperthermia, hypothermia, disorders and interpretation.	05
24-09-2019 11AM to 1:00PM & 02:00 to 05:00PM	Interpretation of Respiration Rate Definition, respiratory capacities, instruments, pulmonary function tests and interpretation.	05
24-09-2019 11AM to 1:00PM & 02:00 to 05:00PM	Interpretation of Pain Pain pathways, definition of pain, pain assessment scales and interpretation	05
		35Hrs

Warun K. Rao
CO-ORDINATOR



4. Siva
PRINCIPAL
VIGNAN INSTITUTE OF
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Beside: VSEZ, Duvvada, Visakhapatnam-53

4. Siva
PRINCIPAL

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Value Added Course on MEDICAL TERMINOLOGIES 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 16th August 2019 TO 25th August 2019 . The course was conducted on “**MEDICAL TERMINOLOGIES**”. The resource person for the course is **Dr.Wasim Feroz**, Assistant Professor, Vignan Institute Of Pharmaceutical Technology, Visakhapatnam, Andhra Pradesh. The course started on : **16-08-2019** with the welcome address by the coordinator and introductory remarks by the coordinator **Dr.V.Swathi** and the resource person. It ended on **25-08-2019** 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 lay the foundation for Medical Terminologies and help students to develop basic vocabulary of medical terms and abbreviations.

OUTCOMES OF THE COURSE:

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

- Identify and define prefixes, roots, and suffices 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.



24.8.2019
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PHOTOGRAPH:



Name of the Value Added Course: Medical Terminologies

Date: 16th August 2019 TO 25th August 2019

Latitude	17.711645 ⁰
Longitude	83.164108 ⁰

**PROGRAM SCHEDULE**

Date& Time	Topic	No. of Hours
16-08-2019 11AM to 1:00PM	Medical terminologies Introduction to different medical terminologies , applications,basic abbreviations and terms used.	2
17-08-2019 02:00 to 05:00PM	Medical terminologies Introduction to different medical terminologies , applications,basic abbreviations and terms used.	3
18-08-2019 11AM to 1:00PM & 02:00 to 05:00PM	Medical language and records Case profile forms,patient profile forms,data collection forms,adverse reaction reporting forms,terms and structure.	5
19-08-2019 11AM to 1:00PM & 02:00 to 05:00PM	Integumentary system Basic definitions in integumentary system,terminologies,tests,investigations,clinical manifestations.	5
21-08-2019 11AM to 1:00PM & 02:00 to 05:00PM	Musculoskeletal system Basic definitions in Musculoskeletal system ,terminologies,tests,investigations,clinical manifestations.	5
23-08-2019 11AM to 1:00PM & 02:00 to 05:00PM	Cardiovascular system Basic definitions in Cardiovascular system ,terminologies,tests,investigations,clinical manifestations.	5
2-08-2019 11AM to 1:00PM & 02:00 to 05:00PM	Urinary system Basic definitions in Urinary system ,terminologies,tests,investigations,clinical manifestations.	5



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25-08-2019 11AM to 1:00PM & 02:00 to 05:00PM	Conclusion and Course final assessment Application of different medical terms and assessment.	5
Total		35Hrs

S. Thi

CO-ORDINATOR



Y. Suresh

PRINCIPAL

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Beside VSEZ, Kapujaggaraju Peta Duvvada, Visakhapatnam-530049. A.P



Y. Suresh
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Beside VSEZ, Duvvada, Visakhapatnam-46



Value Added Course on Screening Tests for Cancer

SUMMARY REPORT

A Value-Added Course for Pharm.D IIIrd Year Students was organized by the Department of Pharmacy Practice at Vignan Institute of Pharmaceutical Technology from 11th to 19th June 2019. The course was conducted on "Screening Tests for Cancer". The resource person for the course is **Mr. KRVS Chaitanya**, Assistant Professor, Vignan Institute of Pharmaceutical Technology. He has experience to train students skills regarding Screening tests for cancer. The course started on **11th June 2019** with the welcome address by the coordinator and introductory remarks by the **Dr. Wasim Feroz**, Assistant Professor, Vignan Institute of Pharmaceutical Technology. It ended on 19th June 2019 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 understanding cancer course should be helpful to anyone who wants to develop a deeper understanding of 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, the student will be able to achieve the following outcomes:

- 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.

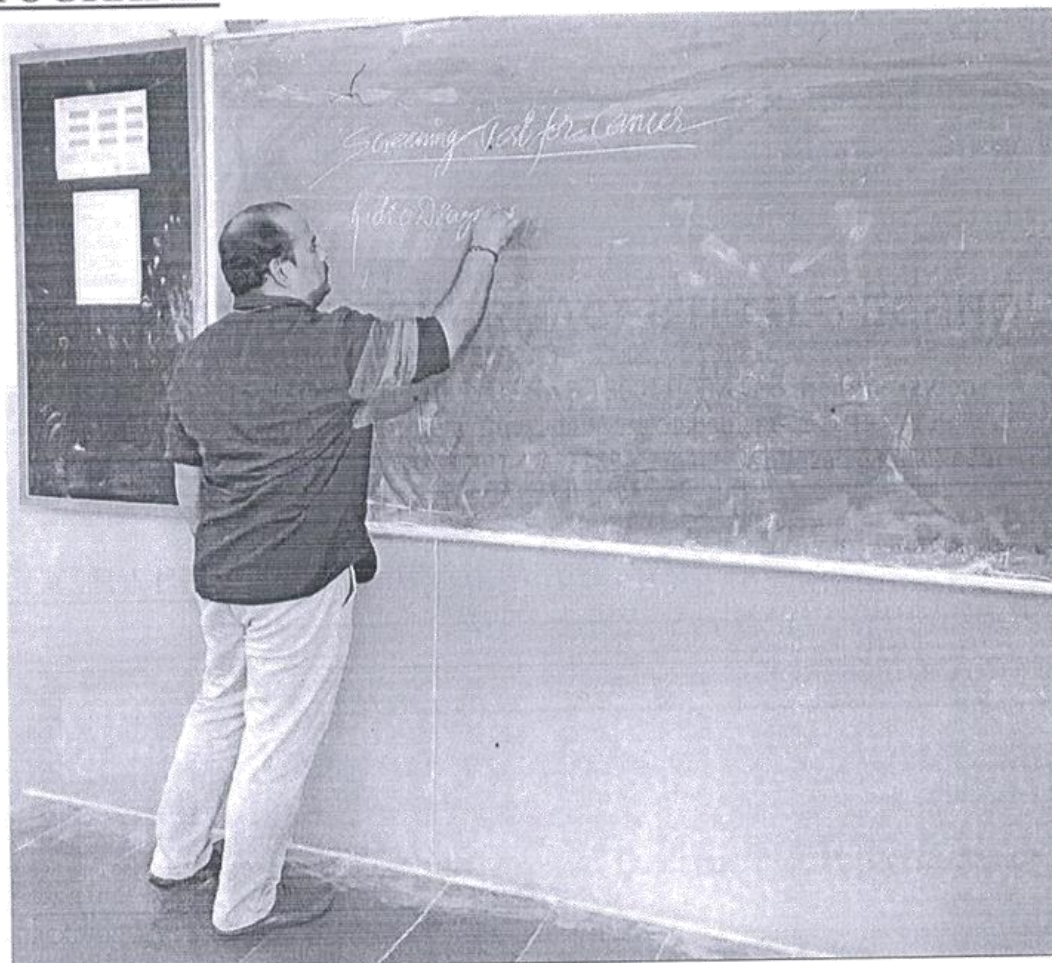


Dr. Wasim Feroz

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



PHOTOGRAPH:



Vignan Institute of Pharmaceutical Technology, Duvvada, Visakhapatnam,
Andhra Pradesh 530049

Latitude	17.711645 ⁰
Longitude	83.164108 ⁰



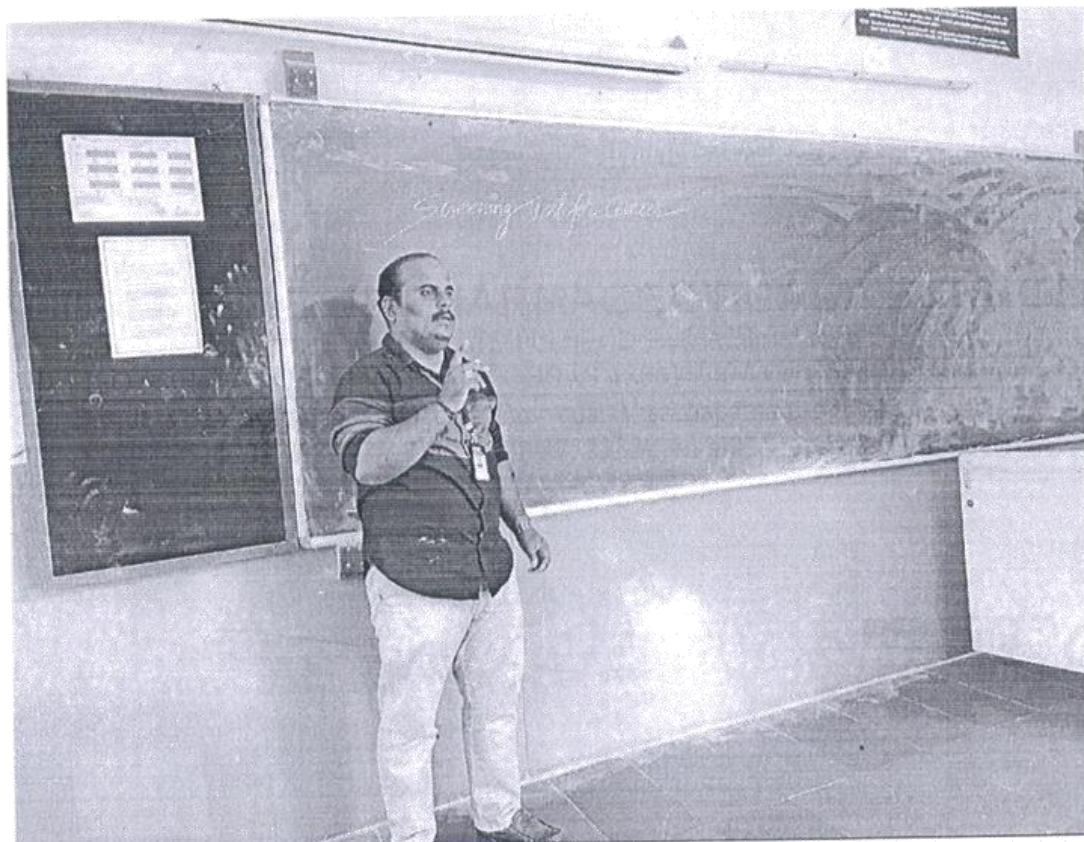
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Vignan Institute of Pharmaceutical Technology, Duvvada, Visakhapatnam, Andhra Pradesh 530049

Latitude	17.711645 ⁰
Longitude	83.164108 ⁰



PROGRAM SCHEDULE

S. No	Date & Time	Module Name	Number of Hours
1	11-06-2019 10:00 to 12:00 pm 01:00 to 3:00pm	Introduction to the biology of cancer: Incidence and Etiology of Cancer, Genetics of Cancer, Ten Cellular Hallmarks of Cancer, Metastasis, Imaging in Oncology	5
2	12-06-2019 10:00 to 12:00 pm 01:00 to 5:00pm	Understanding cancer metastasis: History and Overview of Metastasis, Primary Tumour Growth and Neo angiogenesis, EMT / Invasion / Intravasation, Survival in the Circulation and Extravasation, Dormancy and Secondary Tumour Growth, Morbidity and Mortality Associated with Metastasis	5
3	13-06-2019 10:00 to 12:00 pm 01:00 to 4:00pm	Understanding cancer: Incidence, Risk Factors, Screening, Cancer Risk Factors , Cancer Screening	5
4	14-06-2019 10:00 to 12:00 pm 01:00 to 4:00pm	Biology, Incidence, and Risk Factors for Cancer: Introduction to Biology, Incidence, and Risk Factors for Cancer, Biology, er Screening	5
5	15-06-2019 10:00 to 12:00 pm 01:00 to 4:00pm	Diagnosis and staging of cancer Introduction to How Cancer is Found, Diagnosed, and Staged, Finding Cancer: Grading and Staging, Staging for Cancer.	5
6	17-06-2019 10:00 to 12:00 pm 01:00 to 4:00pm	Localized Cancer treatment: Introduction, Treatment, Side Effects of Treatment, Treatment of Very Low-Risk and Low-Risk Cancer, Treatment of Intermediate, High-Risk, Very High Risk Cancer.	5
7	18-06-2019 01:00 to 4:00pm	Treatment of Metastatic Cancer: Introduction, Treatment, Second-line Hormone Therapy for Metastatic Cancer,	3



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8	19-06-2019 10:00 to 12:00 pm	Chemotherapy and Other Treatments for Metastatic Cancer, Clinical Trials.	2
		Total hours	35

Wasim Feroz
CO-ORDINATOR



y. susha
PRINCIPAL

PRINCIPAL
VIGNAN INSTITUTE OF
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Beside VSEZ, Duvvada, Visakhapatnam-46



y. susha
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**Value Added Course
on
COGNITIVE BEHAVIORAL THERAPY
SUMMARY REPORT**

A Value-Added Course for Pharm.D 4th Year Students was organized by the Department of Pharmacy Practice at Vignan Institute of Pharmaceutical Technology from 24th June to 01st July 2019. The course was conducted on “Cognitive Behavioral Therapy”. The resource person for the course is **Dr. Wasim Feroz** Assistant Professor, Vignan institute of pharmaceutical technology. He has experience to train students skills regarding medical terminologies. The course started on **24th June 2019** with the welcome address by the coordinator and introductory remarks by the **Mr. M.VINOD KUMAR** Assistant Professor, Vignan Institute of Pharmaceutical Technology. It ended on 01st July 2019 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 Objective:

- 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.
- CBT is an evidence based psychotherapy, which has been validated as an effective treatment for many mental health disorders, including substance use, major depression, anxiety disorders like posttraumatic stress disorder, eating disorders, and schizophrenia.
- The premise of CBT is that cognition (thoughts and beliefs) can influence feelings and behavior.
- CBT attempts to modify thoughts and beliefs about experiences, which in turn determine feelings and behaviors. By completing this training series you learn the skills and practice the techniques required to provide effective CBT to the people you serve.



4- June 19

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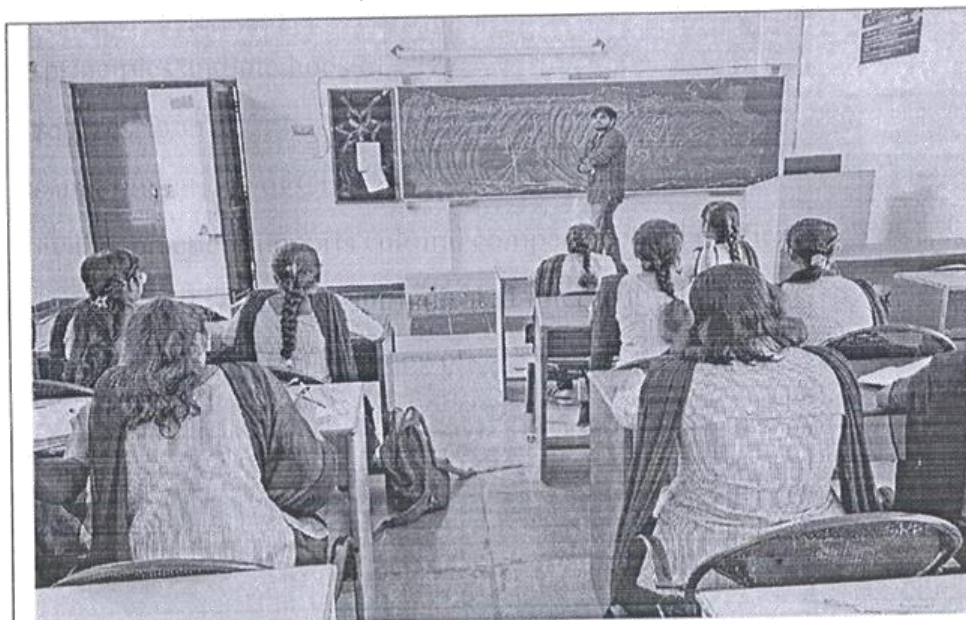
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Course Outcomes:

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

- Identify the principles and methods of CBT
- Discuss current research
- List benefits and limitations of CBT
- Describe how this practice supports cultural competence and resiliency
- Accurately assess if CBT is a relevant/indicated intervention
- Conceptualize a case from a CBT framework

Photograph:



Vignan Institute of Pharmaceutical Technology, Duvvada,
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Latitude	17.711645 ⁰
Longitude	83.164108 ⁰



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PROGRAM SCHEDULE

S. No	Date & Time	Module Name	Number of Hours
1	24-06-2019 10:00 to 12:00 pm 01:00 to 3:00pm	Introduction: Features of CBT, Comparison with person-centered, psychodynamic, mindfulness. Understanding the brain, Thoughts, feelings and behaviors, Brain, chemicals, mood, memory.	5
2	25-06-2019 10:00 to 12:00 pm 01:00 to 5:00pm	Human Emotions: Exploring Emotion, Stress response, Lazarus & Folkman model, Classical conditioning	5
3	26-06-2019 10:00 to 12:00 pm 01:00 to 4:00pm	Levels of Change	5
4	27-06-2019 10:00 to 12:00 pm 01:00 to 4:00pm	Counselling Skills	5
5	28-06-2019 10:00 to 12:00 pm 01:00 to 4:00pm	Counselling Approaches CBT Applications	5
6	29-06-2019 10:00 to 12:00 pm 01:00 to 4:00pm	CBT Principles CBT Variations & Case Studies	5
7	01-07-2019 10:00 to 12:00 pm 01:00 to 4:00pm	CBT Sessions Cognitive Behavior Techniques	5
		Total	35

Mr. Vinod Kumar
CO-ORDINATOR



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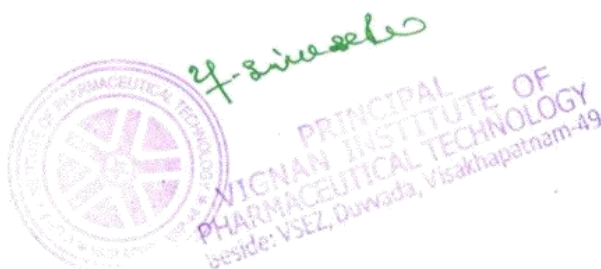


Value Added Course on Fundamentals of Pharmacovigilance SUMMARY REPORT

A Value Added Course for Pharm.D Vth Year Students was organized by the Department of Pharmacy Practice at Vignan Institute of Pharmaceutical Technology from 1st July to 10th July 2019. The course was conducted on “Fundamentals of Pharmacovigilance”. The resource person for the course is **Mr. M. Vinod Kumar, Assistant Professor, Vignan Institute of Pharmaceutical Technology**. He has experience to train students skills regarding Pharmacovigilance. The course started on 1st July 2019 with the welcome address by the coordinator and introductory remarks by the **Mr. P. Srinu, Assistant Professor, Vignan Institute of Pharmaceutical Technology**. It ended on 10th July 2019 with concluding remarks by the resource person. A total of 28 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective: 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).
- Maintain a robust monitoring system for new safety issues.
- Implement effective approaches to minimize risk.
- Install procedures for rapid decision making and triggering actions in case of (immediate) safety concerns
- Improve patient care and safety in relation to the use of medicines and all medical and paramedical (services that support medical work, such as nursing, first aid, radiography) interventions.





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Course Outcomes:

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

- 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)
- Signal detection and management - analysing the data (reports of suspected adverse reactions) to identify 'signals' (any new or changing safety issue)
- Routine benefit-risk monitoring of medicines via periodic safety update reports (PSURs).
- Explain Adverse drug reaction and its management
- Explain ADR reporting, methods and tools used in Pharmacovigilance



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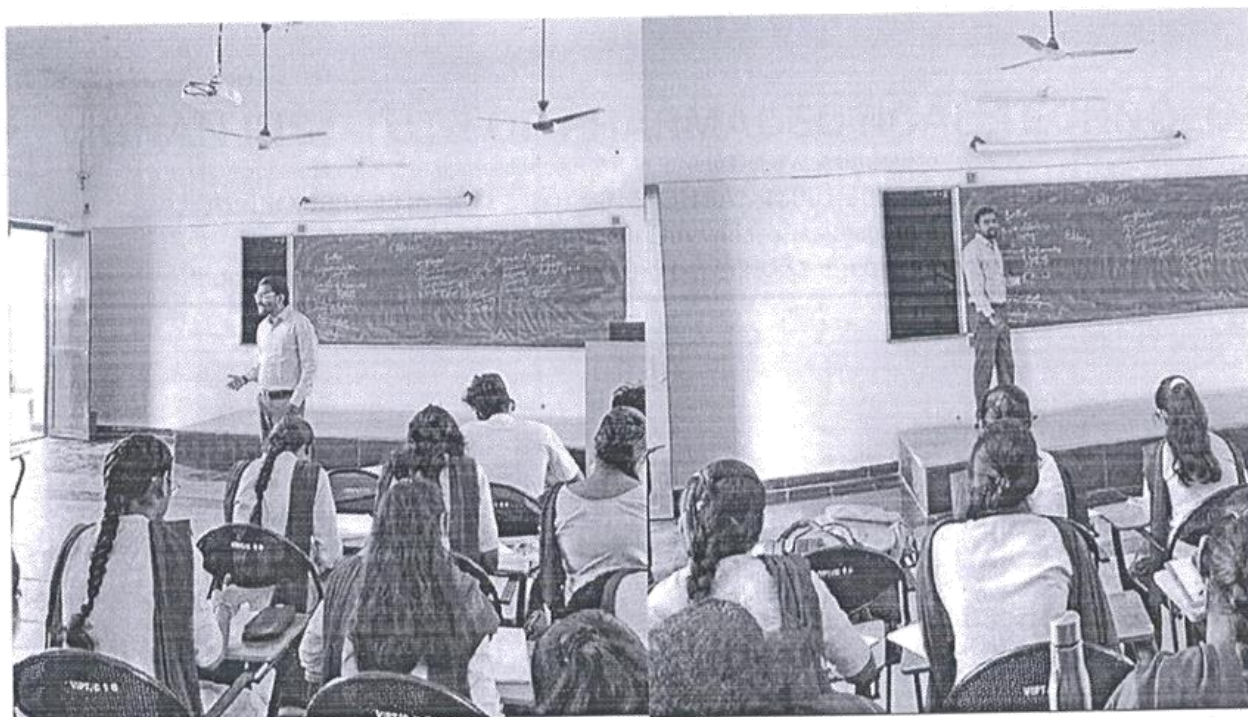
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Photograph:



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Latitude	17.711645 ⁰
Longitude	83.164108 ⁰



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PROGRAM SCHEDULE

S. No	Date & Time	Module Name	Number of Hours
1	01-07-2019 10:00 to 12:00 pm 01:00 to 3:00pm	Introduction and Aims of Pharmacovigilance	5
2	02-07-2019 10:00 to 12:00 pm 01:00 to 5:00pm	Adverse drug reaction Types, Forms, UMC	5
3	03--07-2019 10:00 to 12:00 pm 01:00 to 4:00pm	Medication errors Incorrect diagnosis, prescribing errors, dose miscalculations, poor drug distribution practices.	5
4	04-07-2019 10:00 to 12:00 pm 01:00 to 4:00pm	Adverse drug events Introduction, types, methods	5
5	08-07-2019 10:00 to 12:00 pm 01:00 to 4:00pm	Stakeholders involved in Pharmacovigilance	5
6	09-07-2019 10:00 to 12:00 pm 01:00 to 4:00pm	Causality Assessment and Signal Detection Methods. Naranjo scale, WHO scale	5
7	10-07-2019 10:00 to 12:00 pm 01:00 to 4:00pm	Pharmacovigilance in India The role of healthcare professionals	5
		Total Hours	35

P. Shiva

CO-ORDINATOR



Y. Suresh

PRINCIPAL
VIGNAN INSTITUTE OF
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Beside VSEZ, Duvvada, Visakhapatnam-49



Y. Suresh
PRINCIPAL

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VALUE-ADDED COURSE ON BIOMEDICAL NANOTECHNOLOGY 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 23rd September to 1st October 2019. The course was conducted on "**Biomedical Nanotechnology**". The resource person for the course is **Dr S.Satya Lakshmi**, Associate Professor, VIPT. The course started on 23rd September 2019 with the welcome address by the coordinator and introductory remarks by the head of the Department **Dr P.V. Kamala Kumari** and the resource person. It ended on 1st October 2019 with concluding remarks by the resources person. A total of 15 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective:

- The main objective of this course is to impart knowledge on biomedical applications of nanotechnology.
- Dedicated to exploring Nanoscience and Nanotechnology for health wellness, with the 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
- Apply nanomaterials in tissue engineering, cancer diagnosis
- Analyze in vitro methods to study antibacterial and anticancer properties of nanomaterials



g. sree
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Name of the Value added Course: Biomedical Nanotechnology	
Date: 23rd September to 1st October 2019	
Latitude	17.110635 ⁰
Longitude	83.122108 ⁰



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PROGRAM SCHEDULE

Date & Time	Topic	No. of Hours
23/09/2019 01:00 to 06:00PM	Introduction nano, Nano-biomimicry, Synthesis of nanomaterials by physical and chemical methods, Synthesis of nanomaterials by biological methods	5
24/9/2019 01:00 to 06:00PM	Characterisation of nanomaterials: DNA nanotechnology, Protein & glyco nanotechnology, Lipid nanotechnology, Bio-nanomachines,	5
25/9/2019 01:00 to 06:00PM	Nanomaterials for cancer diagnosis: Nanomaterials for cancer therapy, Nanotechnology in tissue engineering, Nano artificial cells, Nanotechnology in organ printing.	5
26/9/2019 01:00 to 06:00PM	Nano artificial cells, Nanotechnology in organ printing: Nanotechnology in point of care diagnostics, Nanopharmacology & drug targeting	5
27/9/2019 01:00 to 05:00PM	Cellular uptake mechanism: Nanomaterials, Carbon nanotube and its bioapplications	4
28/9/2019 02:00 to 04:00PM	Cellular uptake mechanism of nanomaterials	2
30/9/2019 02:00 to 04:00PM	Implants and prostheses: diagnostics and screening	2
1/10/2019 02:00 to 04:00PM	Nanotechnology platforms for biomedicine: funding and policy implications	2

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



[Signature]
PRINCIPAL



[Signature]
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VALUE-ADDED COURSE

on

Certificate Programme On Metabolomics in Pharmaceutical R&D 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 14-10-2019 to 22-10-2019. The course was conducted on "**Certificate Programme On Metabolomics in Pharmaceutical R&D**". The resource person for the course is Asst. Professor Mr. K. Vara Prasad Rao Department of Pharmaceutical Analysis, Vignan institute of Pharmaceutical Technology, Duvvada, Visakhapatnam, A.P, India. The course started on 14 October 2019 with the welcome address by the coordinator **Dr.D. Vasudha** and introduced the resource person. It ended on 22nd Oct 2019 with concluding remarks by the resource person. A total of 15 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective:

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

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



24-10-2019
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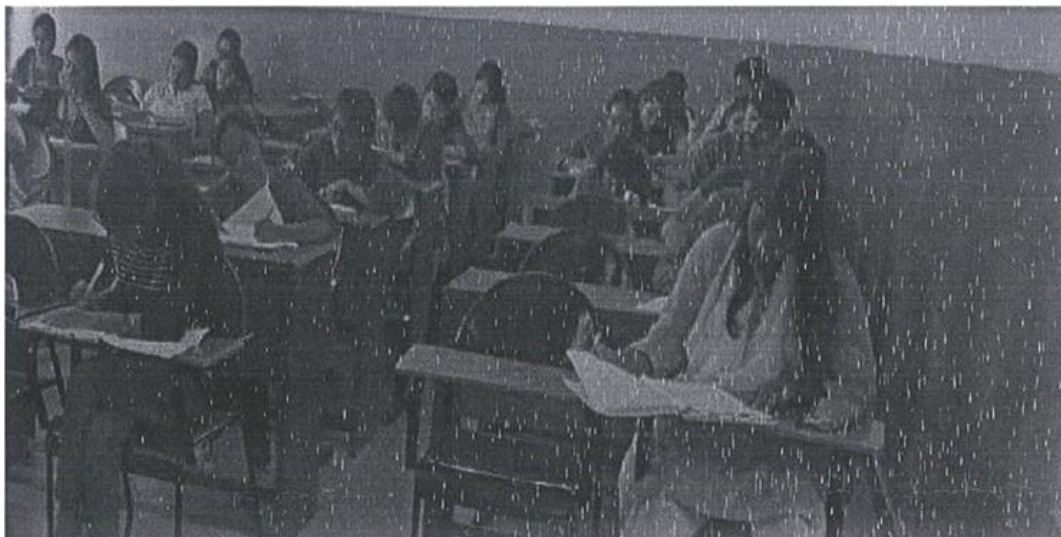
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Name of the Value added Course: ***Certificate Programme On Metabolomics in Pharmaceutical R&D***

Date: 14-10-2019 to 22-10-2019

Latitude	17.711716°
Longitude	83.164142°



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
14.10.19 9:30-12.30 pm & 2:00- 4:00 pm	Metabolomics Analytical Technologies- Introduction, Sample preparation methods for metabolomics, Separation and identification methods, Summary and future trends	5
15.10.19 9:30-12.30 pm & 2:00- 4:00 pm	NMR Spectroscopy – What is NMR?, Principle of Nuclear Magnetic Resonance (NMR) Spectroscopy, Working of Nuclear Magnetic Resonance(NMR) Spectroscopy, Instrumentation of Nuclear Magnetic Resonance (NMR) Spectroscopy, Applications of Nuclear Magnetic Resonance (NMR) Spectroscopy	5
16.10.19 9:30-12.30 pm & 2:00- 4:00 pm	Mass Spectrometry - Basic Principle, Components, Analysis of Biomolecules using Mass Spectrometry, Software for Mass Spectrometric Data Analysis, Applications	5
17.10.19 9:30-12.30 pm & 2:00- 4:00 pm	Chemometrics Methods – Background, Origins, Techniques, Multivariate calibration, Classification, pattern recognition, clustering, Multivariate curve resolution, Other techniques.	5
18.10.19 9:30-12.30 pm & 2:00- 4:00 pm	Statistical Spectroscopy for Biomarker Identification - Ion Statistical Methods to Quantify Classification, Potential of the Biomarker, Statistical Methods to Evaluate the Incremental Value of Biomarkers	5
19.10.19 9:30-12.30 pm & 2:00- 4:00 pm	Standards and Reporting Needs in Metabolomics - Introduction, Summary Report, Toxicology Experiment Module, MRF Technology-specific Data Acquisition & Processing Reporting Modules, Data Analysis Reporting Modules	5
21.10.19 9:30-12.30 pm & 22.10.19	Pharmaceutical R&D Metabolomics Applications – Outline- Introduction, Metabolomics technologies: A brief overview, Metabolomics concepts, Analytical	6



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9.30 – 12.30 pm	technologies, New developments and future directions, Metabolomics during the early stages of drug development, Substrate identification, Target identification, physiological response markers, and mode of action, Limitations, Prediction of adverse effects, Drug repurposing	
Total		36

CO - ORDINATOR

PRINCIPAL



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VALUE ADDED COURSE

on

“MECHANICAL VENTILATION CUM RESPIRATORY THERAPY”

SUMMARY REPORT

A Value-Added Course for M.Pharmacy I Year Students was organized by the Department of Pharmacology at Vignan institute of Pharmaceutical Technology from 21st October 2019 to 29th October 2019. The course was conducted on “*Mechanical ventilation cum Respiratory therapy*”. The resource person for the course was **Dr. K.Eswar Kumar**, Assistant Professor A.U College of Pharmaceutical sciences. The course started on 21-10-2019 with the welcome note by the course coordinator **Mr.K.Raj Kiran**, Associate professor, Vignan institute of pharmaceutical technology, she has also introduced the resource person to students. The course has ended on 29-10-2019, with concluding remarks by the resource person. A total of 04 students participated and completed the course. The overall feedback from the participants regarding the course was very good.

Course Objective:

- This course is designed to promote students understanding about the physiology of respiration. To gain knowledge about risk factors which effect respiration process and need for mechanical ventilation cum respiratory therapy. 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 :

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



Dr. Eswar Kumar

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Phone 0891-2511222/2589777, Fax: 0891-2752333:: email : viptvizag@gmail.com



Name of the Value added Course: **Mechanical ventilation cum Respiratory therapy**
Date: **21st to 29th October 2019**

Latitude	17.711725°
Longitude	83.164326°



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
21.10.2019 09:30 AM to 12:30 PM & 01:30 PM to 2:30 PM	Introduction <ul style="list-style-type: none">Anatomy of Respiratory SystemStructure of lungs	4
22.10.2019 09:30 AM to 12:30 PM & 01:30 PM to 2:30 PM	Mechanism of respiration <ul style="list-style-type: none">ExpirationInspirationLung capacity	4
23.10.2019 09:30 AM to 12:30 PM & 01:30 PM to 2:30 PM	Risk factors effecting respiration <ul style="list-style-type: none">SmokingObesityAlcohol consumption	4
24.10.2019 9:30 AM to 12:30 PM & 01:30 PM to 3:30 PM	Respiratory therapy <ul style="list-style-type: none">Need for respiratory therapyMechanism of respiratory therapy.	5
25.10.2019 09:30 AM to 12:30 PM & 01:30 PM to 3:30 PM	Types of mechanical ventilation <ul style="list-style-type: none">Positive pressureNegative pressureIntermittent abdominal pressure ventilatorOscillatorHigh Frequency Jet Ventilation	5
26.10.2019 09:30 AM to 12:30 PM & 01:30 PM to 3:30 PM	Mechanical ventilation <ul style="list-style-type: none">Mechanism of mechanical ventilationProcedure of mechanical ventilation	5
28.10.2019 09:30 AM to 12:30 PM & 01:30 PM to 3:30 PM	Types of mechanical ventilators <ul style="list-style-type: none">Transport ventilatorsIntensive-care ventilatorsNeonatal ventilatorsPositive airway pressure ventilators (PAP)	5
29.10.2019 09:30 AM to 12:30 PM	Complications of mechanical ventilators <ul style="list-style-type: none">Disadvantages of mechanical ventilators	3
Total		35

CO - ORDINATOR



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VALUE-ADDED COURSE on Statistical interpretation on animal studies SUMMARY REPORT

A Value-Added Course for M.Pharmacy Students was organized by the Department of Pharmacology at Vignan institute of Pharmaceutical Technology from 20th Jan 20 to 28th Jan 2020. The course was conducted on "*Statistical Interpretation on Animal studies*". The resource person for the course is **Dr. K. Rajkiran**, Professor, Department of Pharmacology, Vignan Institute of Pharmaceutical Technology. The course started on 20th Jan 2020 with the welcome address by the coordinator **Mr. P. Srinu** and introduced the resource person. It ended on 28th Jan 2020 with concluding remarks by the resource person. A total of 31 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective:

- This course will lay the experiments using laboratory animals should be well designed, efficiently executed, correctly analyzed, clearly presented, and correctly interpreted.
- They should also ensure that full description of animals, experimental designs, and statistical methods used.

Course Outcomes:

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

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



P. Srinu
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Name of the Value added Course: **Stastical Interpretation on Animal studies**
Date: **20th to 28th June 2020**

Latitude	17.711606°
Longitude	83.164273°



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PROGRAM SCHEDULE

Date & Time	Topic	No. of Hours
20 th Jan 2020 1.00PM-6.00PM	Introduction	5
21 th Jan 2020 1.00PM-6.00PM	Guidelines of Statistical Analysis of Experiments Using Laboratory Animals	5
22 th Jan 2020 1.00PM-6.00PM	Designs for the Statistical interpretation	5
23 th Jan 2020 1.00PM-6.00PM	Research strategy and the use of models in research	5
24 th Jan 2020 1.00PM-6.00PM	Experimental designs	3
25 th Jan 2020 1.00PM-6.00PM	Randomisation	4
27 th Jan 2020 1.00PM-6.00PM	Statistical analysis of planned experiments	4
28 th Jan 2020 1.00PM-6.00PM	Analysis using InVivoStat	4
Total		35

P. Brin

CO - ORDINATOR



Y. Suresh

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