



VIGNAN INSTITUTE OF PHARMACEUTICAL TECHNOLOGY

Beside VSEZ, Duvvada, Visakhapatnam-530049

Summary Report on Add on /Certificate/ Value Added Programs for Academic Year 2017-2018

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VALUE ADDED COURSE on PHARMACEUTICAL MANAGEMENT AND MARKETING SUMMARY REPORT

A Value Added Course for B. Pharmacy Students organized by the Department of Pharmaceutics at Vignan Institute of Pharmaceutical Technology from 3rd to 07th October 2017. The course was conducted on "**Pharmaceutical Management and Marketing**". The resource person for the course is Dr. P. V. K. Kamala Kumari, Professor, Vignan institute of pharmaceutical technology. The course started on 3rd October 2017 with the welcome address by the coordinator Dr. M. Saritha, It ended on 07th October 2017 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 Objectives:

- To Describe the concept of pharmaceutical marketing
- To Enumerate the concept of product management in pharmaceutical industry
- Discuss the various components of promotion of pharmaceutical products
- Explain the different pharmaceutical marketing channels
- Discuss the emerging concepts of marketing

Course Outcomes:

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

- A thorough overview of the general principles of marketing including marketing as a process
- Marketing effectiveness in the pharmaceutical environment
- A coverage of marketing brand and generic drugs with special emphasis on direct-to-consumer advertising and the impact of social media and technology



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Name of the Value added Course: **Pharmaceutical Management and Marketing**

Date: 3rd to 7th October 2017

Latitude	17.111635 ⁰
Longitude	83.141108 ⁰



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PROGRAM SCHEDULE


Date& Time	Topic	No. of Hours
3 rd October 2017 01:00PM to 07:00PM	Introduction and Fundamental rules in Marketing: Value of Marketing, The Characteristic of The Market, Characteristic, Structure And Organization of Pharmaceutical Market	6
4 th October 2017 01:00PM to 07:00PM	Management of Pharmaceutical Marketing: Process of Marketing Management, Marketing Management And Its Evolution, The Organizational Structure of Services Marketing, Pricing policy in International Marketing	6
5 th October 2017 01:00PM to 07:00PM	Marketing Research and the Information, Marketing Information Systems: The purpose, objects and methods of marketing research, The value of the pharmaceutical information, marketing information systems	6
6 th October 2017 01:00PM to 07:00PM	Methods and systems of Distribution of Pharmaceutical product, Forms of entering of Pharmaceutical companies on Foreign Markets: Strategy of International Marketing	6
7 th October 2017 01:00PM to 07:00PM	Sales Promotion of Pharmaceutical Goods: Personal Selling. Network And Direct Marketing, Exhibitions And Trade Fairs, Dvertising on Point of Selling, Merchandising. In Pharmacies Enterprises And Institutions	6
Total		30


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VALUE ADDED COURSE on Spectroscopy of Organic Compounds

SUMMARY REPORT

A Value added course for B.Pharmacy Ist Year Students was organized by the Department of Pharmaceutical Analysis at Vignan institute of Pharmaceutical Technology from 3rd October 2017 to 9th October 2017. The course was conducted on "*Spectroscopy of Organic Compounds*". The resource person for the course is Mr .K.Varaprasada Rao, Assistant Professor, Department of Pharmaceutical Analysis, Vignan Institute of Pharmaceutical Technology, Duvvada, Visakhapatnam, A.P, India. The course started on 3rd October 2017 with the welcome address by the coordinator Dr.T.Hemanth Kumar and introduced the resource person. It ended on 9th October 2017 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:

- Understand the Interaction of Matter with Electromagnetic Radiations and its Applications in Drug Analysis.
- Understand the Infrared Frequency and Absorption Maxima of various Organic Compounds.
- Understand the Interpretation of Compound by using Instrumental Methods.
- Qualitative Analysis of various Organic Compounds.

Course Outcomes:

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

- Study and Solve Problems of Ultraviolet and Visible Spectroscopy of Organic Molecules.
- Understand Infrared Spectroscopy and its Applications to Structural Problems.

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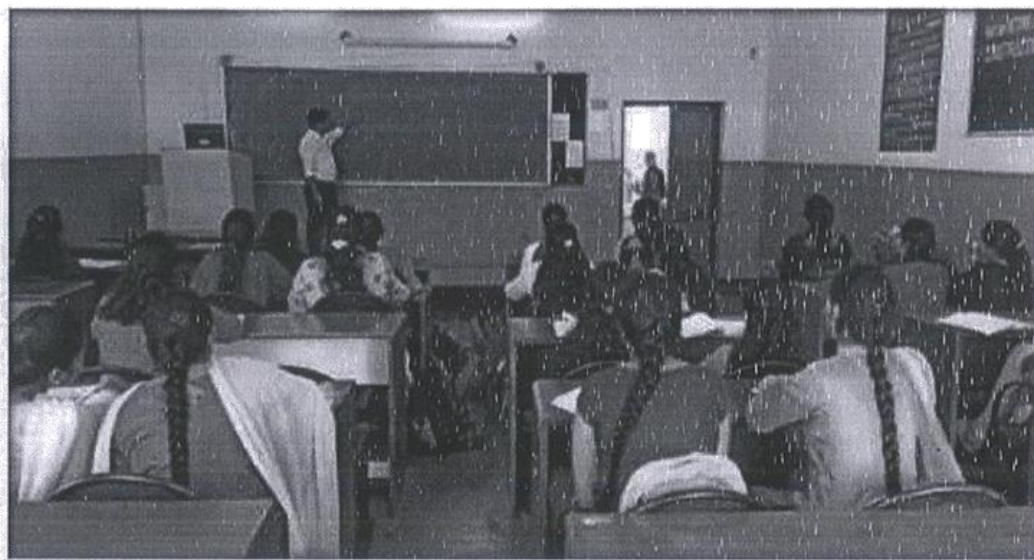
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- Problems Solved Based on UV, IR, H NMR, Mass, C13NMR, 2D COSY Spectroscopy to Interpret Structure.



Name of the Value added Course: Spectroscopy of Organic Compounds
Date: 3rd to 9th October 2017

Latitude	17.711791 ⁰
Longitude	83.164125 ⁰



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PROGRAM SCHEDULE

Date& Time	Topics	No. of Hours
3 rd October 2017 1:00PM -6:00PM	Introduction to UV Spectroscopy:Spectrum of Acetone,isoprene,Cholest-4-en-3one,Mesityl Oxide	5
4 th October 2017 1:00PM -6:00PM	Introduction to IR: Spectrum of florobenzene ,cyclohexane,Toluene,Valine	5
5 th October 2017 1:00PM -6:00PM	Introduction to HNMR: 1 bromo 3chloro propane,1 butanol,Isopropyl bromide,Linalool	5
6 th October 2017 1:00PM -6:00PM	Introduction to C13 NMR: 1Pentanal,Anisole,Adipic acid,Pentanitrile	5
7 th October 2017 1:00PM -6:00PM	Introduction to 2D COSY: lysine,Thymol,khusol,p-acetamol	5
9 th October 2017 1:00PM -6:00PM	Introduction to Mass Spectroscopy: 1Bromohexane, 2 butanol,pentanoic acid,Propanol	5
Total		30



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VALUE ADDED COURSE on LIFE STYLE AND OVER THE COUNTER DRUGS SUMMARY REPORT

The course was conducted on "Life Style and Over the Counter Drugs" The resource person for the course is **Murali Krishna Kumar Muthyala**, Assistant Professor College of Pharmaceutical Sciences Andhra University, Department of Pharmaceutical Chemistry Andhra university College of Pharmaceutical Sciences, Duvvada, Visakhapatnam, A.P, India. The course started on 3rd Oct 2017 with the welcome address by the coordinator Dr.P.Chiranjeevi, Associate Professor and introduced the resource person. It ended on 9th Oct 2017 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 all the aspects related to the over the counter drugs, Life style drugs & future trends for over the counter drugs

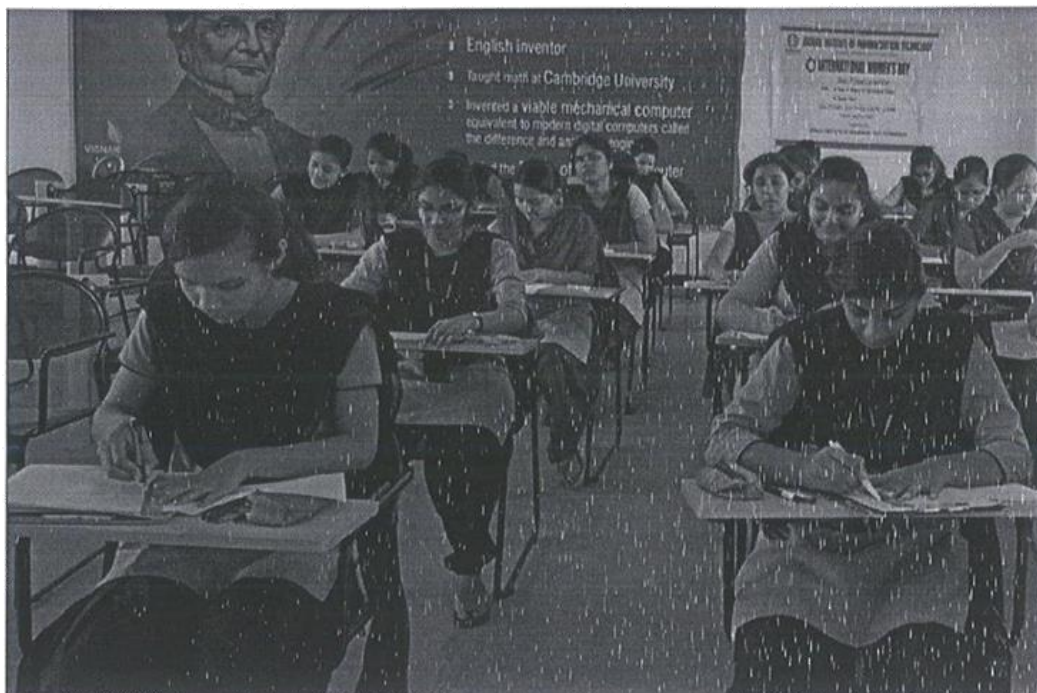
Course Outcomes:

Upon completion of the course

- Understand the Over the counter drugs
- Explain the life style drugs
- Describe the future trends for OTC & life style drugs



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Duvvada, Visakhapatnam, A.P. 530049



Name of the Value added Course: Life Style and Over The Counter Drugs	
Date: 3 rd to 9 th Oct 2017	
Latitude	17.711839 ⁰
Longitude	83.164099 ⁰

PROGRAM SCHEDULE

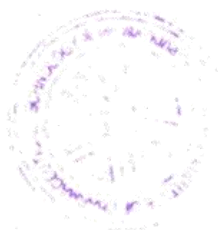
Date& Time	Topic	No. of Hrs
3 rd Oct 2017 1.00PM-6.00PM	Introduction, Self medication	5
4 th Oct 2017 1.00PM-6.00PM	Over the counter Drugs, Life style drugs	5
5 th Oct 2017 1.00PM-6.00PM	Hair growth Disorders	5
6 th Oct 2017 1.00PM-6.00PM	Sexual Disorders	5
7 th Oct 2017 1.00PM-6.00PM	Smoking cessation agents, sunscreens	5
9 th Oct 2017 1.00PM-6.00PM	Future trends for OTC and Life style Drugs	5
Total		30



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VALUEADDED COURSE on STUDY OF MICROBIAL STABILITY OF PHARMACEUTICALS, MANAGEMENT AND DISPOSAL OF MICROBIAL WASTE

SUMMARY REPORT

A Value Added Course for B. Pharmacy Students organized by the Department of Pharmaceutics at Vignan Institute of Pharmaceutical Technology from 19th June to 24rd June 2017. The course was conducted on "Study of Microbial Stability of Pharmaceuticals, Management and Disposal of Microbial Waste". The resource person for the course is **Mr. B. Rama Rao**, Assistant Professor, Vignan Institute of Pharmaceutical Technology, Andhra Pradesh. The course started on 19th June, 2017 with the welcome address by the coordinator Dr.S.Satya Lakshmi, VIPT. It ended on 24th June, 2017 with concluding remarks by the source person. A total of 29 students participated and completed the course. The overall feedback from the participants was very good.

Course Objectives: This course will summarize all the aspects related to the stability of the pharmaceutical products, from the sources of contamination, maintenance of processing conditions, prevention methods and disposal of microbial wastes.

Course Outcomes:

Upon completion of the course:

1. Awareness on Medical AI Based on the Database Analysis.
2. Learn the Symptoms of the Patients and their Medical History by using Database Analysis.
3. A.I the Health of People in Rural Regions
4. Applications of A.I in Pharmacy



Y. Suresh
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Name of the Value added Course: **Study of Microbial Stability of Pharmaceuticals, Management and Disposal of Microbial Waste**

Date: 19th to 24rd June 2017

Latitude	17.71184°
Longitude	83.164141°



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
19 th June 2017 01:00PM to 06:00PM	Introduction -Study of Microbial Stability Of Pharmaceuticals, Management And Disposal Of Microbial Waste -Types of Spoilages - Factors affecting spoilage	5
20 th June 2017 01:00PM to 06:00PM	Sources of spoilage	5
21 th June 2017 01:00PM to 06:00PM	Evaluation of microbial spoilage	5
22 th June 2017 01:00PM to 06:00PM	Methods to avoid spoilage	5
23 th June 2017 01:00PM to 06:00PM	Evaluation of microbial stability	5
24 th June 2017 01:00PM to 06:00PM	Management and disposal of microbial waste	5
Total		30 Hours

S. Satyalakshmi
CO-ORDINATOR

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VALUE ADDED COURSE

on

The Design of Tumor – Inhibitory Alkylating drugs 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 19th June 2017 to 24th June 2017. The course was conducted on “**The Design of Tumor – Inhibitory Alkylating drugs**”. The resource person for the course is **Prof. Dr. Y.Rajendra Prasad**, Department of Pharmaceutical Chemistry Andhra university College of Pharmaceutical Sciences, Visakhapatnam, A.P, India. The course started on 19th June 2017 with the welcome address by the coordinator **Dr.K.Purna Naga Sree**, Associate Professor, VIPT and introduced the resource person. It ended on 24th June 2017 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:

This course will make the student aware of design of tumour Inhibitory, Naturally occurring compounds and Analogs as carriers of alkylating agents.

Course Outcomes:

Upon completion of the course:

- Understand the importance of alkylating agents
- Explain Naturally occurring compounds and Analogs as carriers of Alkylation Groups
- Analyze the compounds Designed for Intra arterial Infusion



Y. Srinivas

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Name of the Value added Course: The Design of Tumor – Inhibitory Alkylating drugs	
Date: 19th to 24th June 2017	
Latitude	17.711840 ⁰
Longitude	83.164098 ⁰

PROGRAM SCHEDULE

Date& Time	Topic	No. of Hrs
19 th June 2017 1.00PM-6.00PM	Introduction Types of alkylating agents	5
20 th June 2017 1.00PM-6.00PM	Sites of Reaction and correlation with Biologic effects, General structural considerations	5
21 st June 2017 1.00PM-6.00PM	Number of Reactive centres , Naturally occurring compounds and Analogs as carriers of Alkylating Groups	5
22 nd June 2017 1.00PM-6.00PM	Dual Antagonists, Alkylating Agents capable of Being Activated (or) Potentiated	5
23 rd June 2017 1.00PM-6.00PM	The Application of pH Differences on alkylating agents	5
24 th June 2017 1.00PM-6.00PM	Compounds Designed for Intra arterial Infusion	5
Total		30

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VALUE ADDED COURSE

on

Allosteric Proteins and Drug Discovery

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 19th June 2017 to 24th June 2017. The course was conducted on **Allosteric proteins and Drug Discovery**. The resource person for the course is **Dr. Murali Krishna Muthyala**, Department of Pharmaceutical Chemistry Andhra university College of Pharmaceutical Sciences, Visakhapatnam, A.P, India. The course started on 19th June 2017 with the welcome address by the coordinator Dr.P.Chiranjeevi Associate Professor and introduced the resource person. It ended on 24th June 2017 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:

This course will summarize all the aspects related to the features of allosteric proteins and mechanism of Allosteric changes. the targets for drug discovery.

Course Outcomes:

Upon completion of the course

- Understand the features of Allosteric changes.
- Study the Allosteric targets for drug discovery.
- Know the various Allosteric targets for effectors as potential therapeutic agents.



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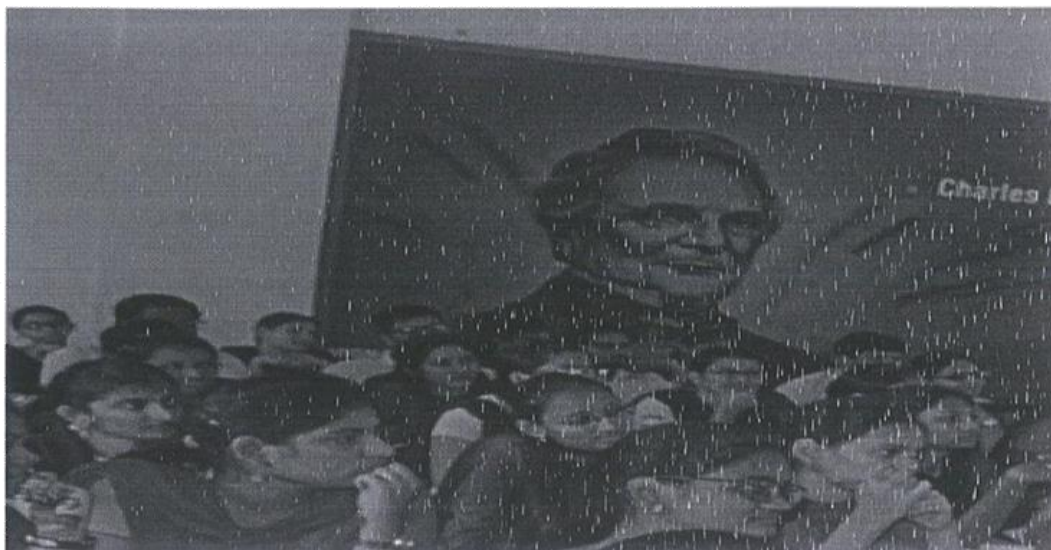
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Name of the Value added Course: Allosteric proteins and Drug Discovery	
Date: 19th to 24th June 2017	
Latitude	17.711839 ⁰
Longitude	83.164099 ⁰



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hrs
19 th June 2017 1.00PM-6.00PM	Introduction, Features of Allosteric proteins.	5
20 th June 2017 1.00PM-6.00PM	The molecular mechanisms of Allosteric changes.	5
21 st June 2017 1.00PM-6.00PM	The molecular mechanisms of Allosteric changes.	5
22 nd June 2017 1.00PM-6.00PM	The Basics for Allosteric Effectors as potential Therapeutic agents.	5
23 rd June 2017 1.00PM-6.00PM	The Basics for Allosteric Effectors as potential Therapeutic agents.	5
24 th June 2017 1.00PM-6.00PM	Allosteric targets for drug discovery and future trends	5
Total		30


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VALUE ADDED COURSE on PRINCIPLES AND PRACTICES OF GENE THERAPY SUMMARY REPORT

A Value Added Course for B. Pharmacy Students organized by the Department of Pharmaceutics at Vignan Institute of Pharmaceutical Technology from 27th June to 01th July 2017. The course was conducted on "**Principles and Practices of Gene Therapy**". The resource person for the course is **P.Ellaiah, Rt Professor**, Andhra University College of Pharmaceutical Sciences, Andhra Pradesh. The course started on 27th June, 2017 with the welcome address by the coordinator. It ended on 01th July, 2017 with concluding remarks by the source person. A total of 23 students participated and completed the course. The overall feedback from the participants was very good.

Course Objectives: This course will make the students more enthusiastic to learn the basic principles of gene therapy and its various approaches to cure some untreatable diseases.

Course Outcomes:

Upon completion of the course:

1. Understand the basic principles of genetic manipulation.
2. Explain the differences between somatic and germ line gene therapy and some of the problems involved in these potential treatments.
3. Understand how genetics used in the design of drugs and treatment of hereditary and non-hereditary disorders.

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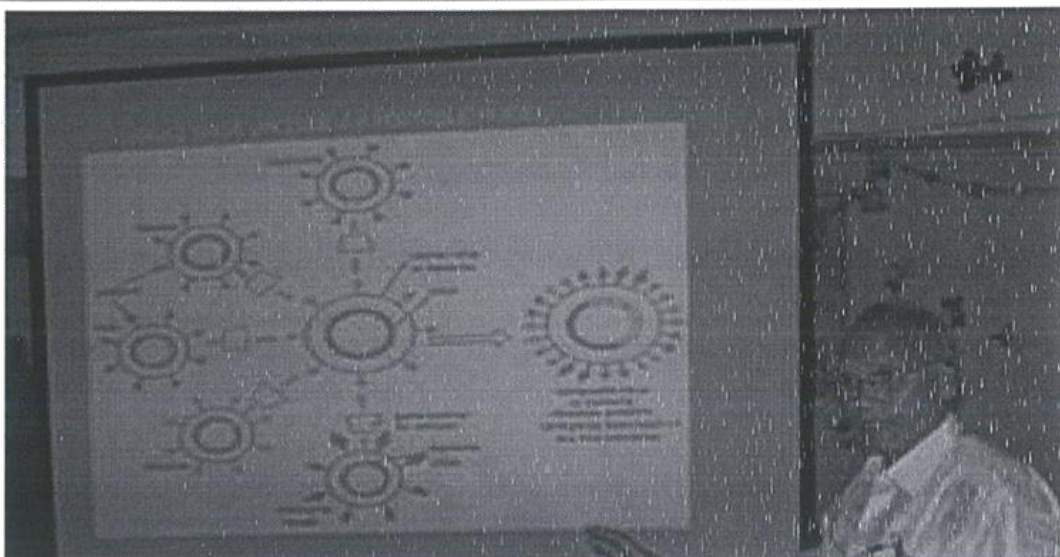
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Name of the Value added Course: **Principles and Practices of Gene Therapy**

Date: 27th to 01th July 2017

Latitude	17.71173°
Longitude	83.164149°



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PROGRAM SCHEDULE

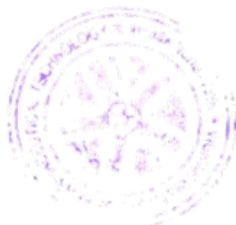
Date& Time	Topic	No. of Hours
27 th June 2017 01:00PM to 07:00PM	In-vivo gene therapy	6
28 th June 2017 01:00PM to 07:00PM	Viral vectors	6
29 th June 2017 01:00PM to 07:00PM	Hereditary disease treatment	6
30 th June 2017 01:00PM to 07:00PM	Non-hereditary disease treatment	6
01 st July 2017 01:00PM to 07:00PM	Ethical issues and regulatory requirements	6
Total		30 Hours

S. Sahyala
CO-ORDINATOR

S. Suresh
PRINCIPAL



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VALUE ADDED COURSE on MEDICINAL PLANT BIOTECHNOLOGY

A certificate programme for B Pharmacy 3rd Year Students was organized by the Department of Pharmcognosy & Phytochemistry at Vignan Institute of Pharmaceutical Technology from 27th June to 1st July 2017. The course was conducted on "*Medicinal Plant Biotechnology*". The resource person for the course is **Dr Atchyut Kumar K**, Professor and Principal, Bhaskara College of Pharmacy. The course started on 27th June 2017 with the welcome address by the coordinator, Mr. P. Bala Krishnaiah, Assistant Professor, VIPT. It ended on 1st July 2017 with concluding remarks by the resources person. A total of 23 students participated and completed the course. The overall feedback from the participants was very good.

- **Course Objective:** To make students Understand the concept of *In-vitro* culturing techniques of medicinal plants and the initiation of plant cell and tissue cultures and cultivation of plant cells and tissues in vitro

Course Outcomes:

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

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



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Name of the Value added Course: *Medicinal Plant Biotechnology*

Date: 27th June to 1st July 2017

Latitude	17.711543°
Longitude	83.164228°



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
27 th June 2017 1:00 PM to 7:00 PM	Introduction	6
28 th June 2017 1:00 PM to 7:00 PM	Basic Methods and Techniques Seed Germination In Vitro Embryo Culture, Callus Culture Organogenesis, Haploid Technology Somatic Embryogenesis	6
29 th June 2017 1:00 PM to 7:00 PM	Protoplast Technology, Special Techniques Protoplast Technology, Somatic Hybridization Gene Transfer, Germplasm Storage	6
30 th June 2017 1:00 PM to 7:00 PM	Permanent <i>in vitro</i> Cultures Cell Suspension Culture, Root Culture, Shoot Culture, Bioreactors	6
1 st July 2017 1:00 PM to 7:00 PM	Methods and Techniques Related to Secondary Metabolism Inducing Variability, Selection Biotransformation Elicitation Immobilization and Permeation	6
Total		30

PB. P

CO-ORDINATOR



Y. Suresh

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Y. Suresh

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VALUE ADDED COURSE on COMPUTER AIDED DRUG DESIGN SUMMARY REPORT

A Value Added Course for B.Pharmacy 1st Year Students was organized by the Department of Pharmaceutical Chemistry at Vignan institute of Pharmaceutical Technology from 27th June to 03rd July 2017. The course was conducted on "**COMPUTER AIDED DRUG DESIGN**". The resource person for the course is **Dr.K.Purna Naga Sree**, Associate Professor, Department of Pharmaceutical Chemistry, Vignan institute of Pharmaceutical technology, Visakhapatnam, A.P, India. The course started on 27th June 2017 with the welcome address by the coordinator **Dr.C.H. Prasad**, Associate Professor and introduced the resource person. It ended on 03rd July 2017 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 CADD and help students understand the concept of theoretical and computational approaches that are part of modern drug discovery.

Course Outcomes:

Upon completion of the course:

- Understand the theoretical and computational approaches that are part of modern drug discovery.
- Explain the use of CADD in drug discovery.
- Explore various methods of drug design.



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Name of the Value added Course: **COMPUTER AIDED DRUG DESIGN**

Date: **27th June to 03rd July 2017**

Latitude	17.711839 ⁰
Longitude	83.164099 ⁰



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PROGRAM SCHEDULE

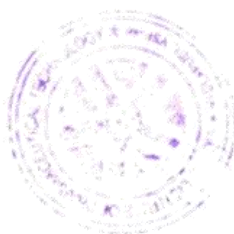
Date& Time	Topic	No. of Hrs
27 th June 2017 1.00PM-6.00PM	Introduction, Molecular Modeling, History	5
28 th June 2017 1.00PM-6.00PM	Homology Modeling, Threading, ab Initio Methods	5
29 th June 2017 1.00PM-6.00PM	Combinatorial Chemistry	5
30 th June 2017 1.00PM-6.00PM	Pharmacophore Modeling: Ligands, Targets, Model Optimisation and Molecular Properties Studies. Experimental Validation of Screened Molecules.	5
1 st July 2017 1.00PM-6.00PM	Docking: Introduction, Materials And Methods, Scheme, Characterisationm Docking Studies.	5
03 rd July 2017 1.00PM-6.00PM	Docking Software, Anticancer Activity.	5
	Total	30



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VALUE ADDED COURSE on BIOINFORMATICS ROLE IN DRUG DISCOVERY 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 27th June 2017 to 3rd July 2017. The course was conducted on "**Bioinformatics Role In Drug Discovery**". The resource person for the course is **Prof. Dr. Y. Rajendra Prasad**, Department of Pharmaceutical Chemistry Andhra university College of Pharmaceutical Sciences, Duvvada, Visakhapatnam, A.P, India. The course started on 27th June 2017 with the welcome address by the coordinator **Mr. A. Kanaka Raju Assistant Professor** and introduced the resource person. It ended on 03th July 2017 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 summarize all the aspects related to Bioinformatics, target discovery databases and structural Genomics

Course Outcomes:

Upon the completion of the course student shall able to

- Understand the Bioinformatics target discovery.
- Apply the principles of Bio Informatics in Drug Discovery.
- Describes the bioinformatics Knowledge model.



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Name of the Value added Course: **BIOINFORMATICS ROLE IN DRUG DISCOVERY**

Date: **27th to 3rd July 2017**

Latitude	17.711839 ⁰
Longitude	83.164099 ⁰



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hrs
27 th June 2017 1.00PM-6.00PM	Introduction, What is Bioinformatics	5
28 th June 2017 1.00PM-6.00PM	Bioinformatics and Target Discovery	5
29 th June 2017 1.00PM-6.00PM	Databases ,Tools and applications	5
30 th June 2017 1.00PM-6.00PM	The Bioinformatics Knowledge Model	5
1 st July 2017 1.00PM-6.00PM	Structural Genomics	5
3 rd July 2017 1.00PM-6.00PM	Structural Genomics	5
Total		30



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VALUE ADDED COURSE on DRUG TARGET BINDING FORCES ADVANCED IN FORCE FIELD APPROACHES SUMMARY REPORT

A Value Added Course for B.Pharmacy 1st Year Students was organized by the Department of Pharmaceutical Chemistry at Vignan institute of Pharmaceutical Technology from 1st June 2017 to 8th June 2017. The course was conducted on "Drug Target Binding Forces Advanced in Force Field Approaches". The resource person for the course is **Dr. Murali Krishna Kumar Muthyala, Assistant Professor**, Department of Pharmaceutical Chemistry Andhra university College of Pharmaceutical Sciences, Visakhapatnam, A.P, India. The course started on 1st June 2017 with the welcome address by the coordinator **Dr. K.Purna Naga Sree, Associate Professor** and introduced the resource person. It ended on 8th June 2017 with concluding remarks by the resource person. A total of 22 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective:

To train the students on drug target binding forces, where they will acquire information on molecular mechanics and calculating free energies.

Course Outcomes:

Upon completion of the course

- Understand the Drug receptor Interactions.
- Apply the principles of binding forces in drug targets.
- Describe the molecular mechanics force fields.

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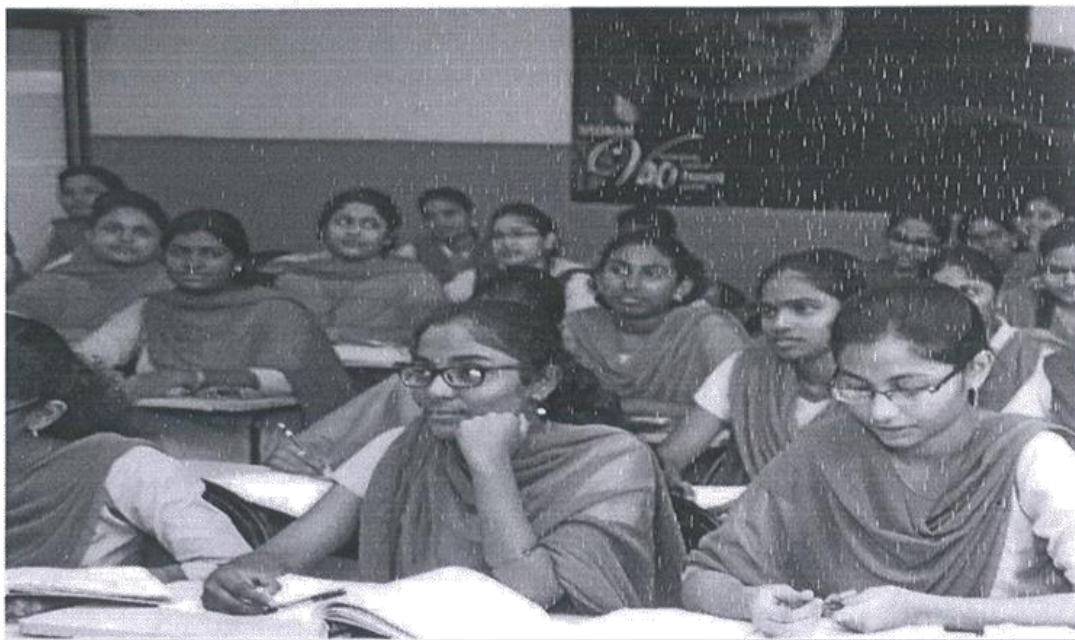
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Name of the Value added Course: Drug Target Binding Forces Advanced in Force Field Approaches	
Date: 1th to 8th June 2017	
Latitude	17.711839 ⁰
Longitude	83.164099 ⁰



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hrs
1 st June 2017 1.00PM-6.00PM	Introduction, Energy components for Intermolecular Noncovalent interactions	5
2 nd June 2017 1.00PM-6.00PM	Energy components for Intermolecular Noncovalent interactions	5
3 rd June 2017 1.00PM-6.00PM	Molecular Mechanics Force Fields	5
5 th June 2017 1.00PM-6.00PM	Thermodynamics of association	5
7 th June 2017 1.00PM-6.00PM	Calculating Free Energies	5
8 th June 2017 1.00PM-6.00PM	Example of Drug Receptor Interactions	5
Total		30



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VALUE ADDED COURSE on **Advanced Instrumental Techniques in Spectroscopy and Chromatography** SUMMARY REPORT

A Value added course for B.Pharmacy IVth Year Students was organized by the Department of Pharmaceutical Analysis at Vignan institute of Pharmaceutical Technology from 1st June 2017 to 7th June 2017. The course was conducted on “Advanced Instrumental Techniques in Spectroscopy and Chromatography”. The resource person for the course is **Mr. K.Varaprasada Rao**, Assistant Professor, Department of Pharmaceutical Analysis, Vignan Institute of Pharmaceutical Technology Duvvada, Visakhapatnam, A.P, India. The course started on 1st June 2017 with the welcome address by the Co-Ordinator **Dr..T.Hemanth Kumar**, VIPT and introduced the resource person. It ended on 7th June 2017 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 Objectives:

- This Course Emphasizes on Theoretical and Practical Knowledge on Modern Analytical Instruments that are used for Drug testing.
- Understand the Interaction of Matter with Electromagnetic Radiations and its Applications in Drug Analysis
- Understand the Chromatographic Separation and Analysis of Drugs.
- Perform Quantitative & Qualitative Analysis of Drugs using various Analytical Instruments.

Course Outcomes:

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

- The Basic Theoretical Knowledge of the Instrumentation Techniques available.
- Theoretically Understand the Aspects of Separation for Multi components.
- Practical Skills for the Analysis of Drugs and Excipients using various Instrumentation Techniques.
- To make Accurate Analysis and Report the results in Defined Formats.
- To Learn Documentation and Express the Observations with Clarity.
- To Understand the Professional and Safety Responsibilities for Working in the Analysis Laboratory



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Name of the Value added Course: **Advanced Instrumental techniques in Spectroscopy and Chromatography**

Date: **1st to 7th June 2017**

Latitude	17.711829 ⁰
Longitude	83.164119 ⁰



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
1 st June 2017 1.00PM-6.00PM	Introduction to Spectroscopy and Chromatography: UV spectroscopy, IR spectroscopy, Thin layer Chromatography, High performance liquid chromatography Spectropolarimetry : Principle, Instrumentation, Applications	5
2 nd June 2017 1.00PM-6.00PM	Raman Spectroscopy: Introduction, Principle, Instrumentation, Applications	5
3 rd June 2017 1.00PM-6.00PM	Photoacoustic spectroscopy: Introduction, Principle, Instrumentation, Applications	5
5 th June 2017 1.00PM-6.00PM	Nuclear Quadrupole Resonance Spectroscopy: Introduction, Principle, Instrumentation, Applications	5
6 th June 2017 1.00PM-6.00PM	Supercritical fluid chromatography: Introduction, Principle, Instrumentation, Applications	5
7 th June 2017 1.00PM-6.00PM	Radioactive chromatography: Introduction, Principle, Instrumentation, Applications	5
Total		30



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VALUE-ADDED COURSE

on

Applications of Artificial Intelligence in Pharmaceutical Industry

SUMMARY REPORT

A Value-Added Course for B. Pharmacy 4th Year Students was organized by the Department of Pharmaceutical analysis at Vignan institute of pharmaceutical technology 01-06-17 to 07-06-17. The course was conducted on “Applications of Artificial Intelligence in Pharmaceutical Industry”. The resource person for the course is **Dr. P. V. Madhavi Latha**, Associate Professor, Viswanadha Institute of Pharmaceutical Sciences, Visakhapatnam, Andhra Pradesh. The course started on 01-06-17 with the welcome address by the coordinator **Mr. K. Varaprasad Rao**, Assistant Professor, VIPT. It ended on 07-06-17 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 train the students in skills of Information Technology which are required for pharmaceutical 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 Technological upgradation in Pharmaceutical Manufacturing And Drug discovery.
- Automation in Pharmaceutical manufacturing.
- Role of Artificial intelligence in drug discovery.
- Computer aided applications that allow students to elaborate and use advances in Information Technology.

4. Sankar

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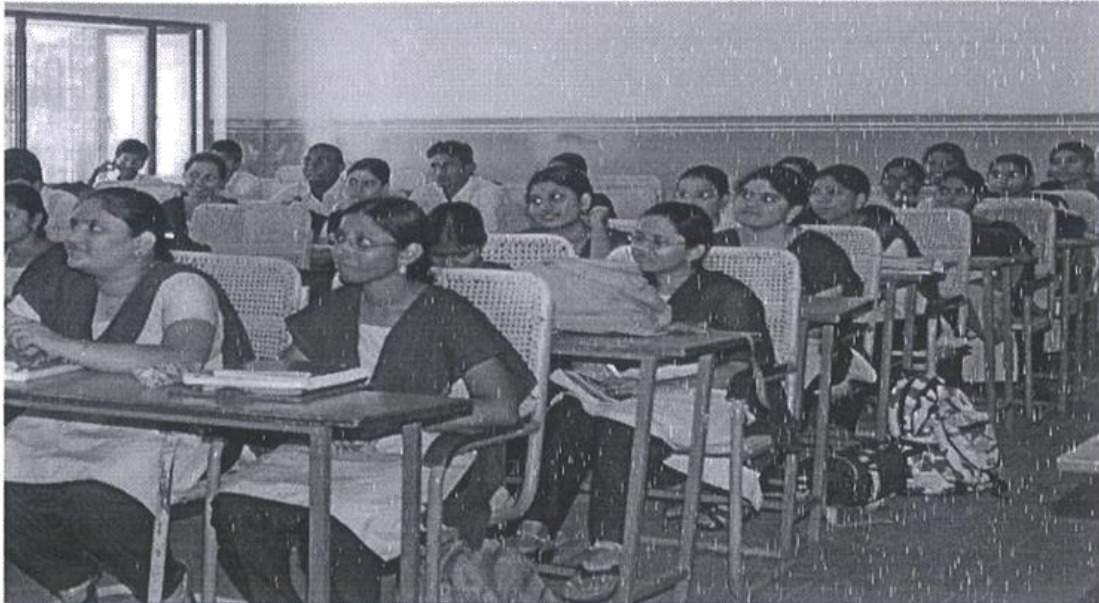
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Name of the Value added Course: **Applications of Artificial Intelligence in Pharmaceutical Industry**

Date: **01-06-17 to 07-06-17**

Latitude 17.71184°

Longitude 83.164141°



Y. Ravi Kumar
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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
01.06.2017 12:00 PM to 6:00PM	Clinical trial design and monitoring	6
02.06.2017 12:00 PM to 6:00PM	QA and QC for understanding Critical Process Parameters	6
03.06.2017 12:00 PM to 6:00PM	Drug Discovery	6
05.06.2017 12:00 PM to 6:00PM	Pharmaceutical Product Management	6
07.06.2017 12:00 PM to 6:00PM	Pharmaceutical manufacturing	6
Total		30



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Value Added Course on Interpretation of Vital Signs SUMMARY REPORT

A Value-Added Course for Pharm.D 1st nd Year Students was organized by the Department of Pharmacy Practice at Vignan institute of pharmaceutical technology 06th to 13th September 2017. The course was conducted on **"INTERPRETATION OF VITAL SIGNS"**. The resource person for the course is **Dr. T.N Venkatesh**, Assistant Professor, Vignan Institute of Pharmaceutical Technology, Visakhapatnam, Andhra Pradesh. The course started on 06-09-2017 with the welcome address by the coordinator and introductory remarks by the **Dr.V.S.Swathi** Assistant Professor. It ended on 13-09-2017 with concluding remarks by the resource person. A total of 24 students participated and completed the course. The overall feedback from the participants was very good.

Course Objectives: The 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.



Dr. Swathi
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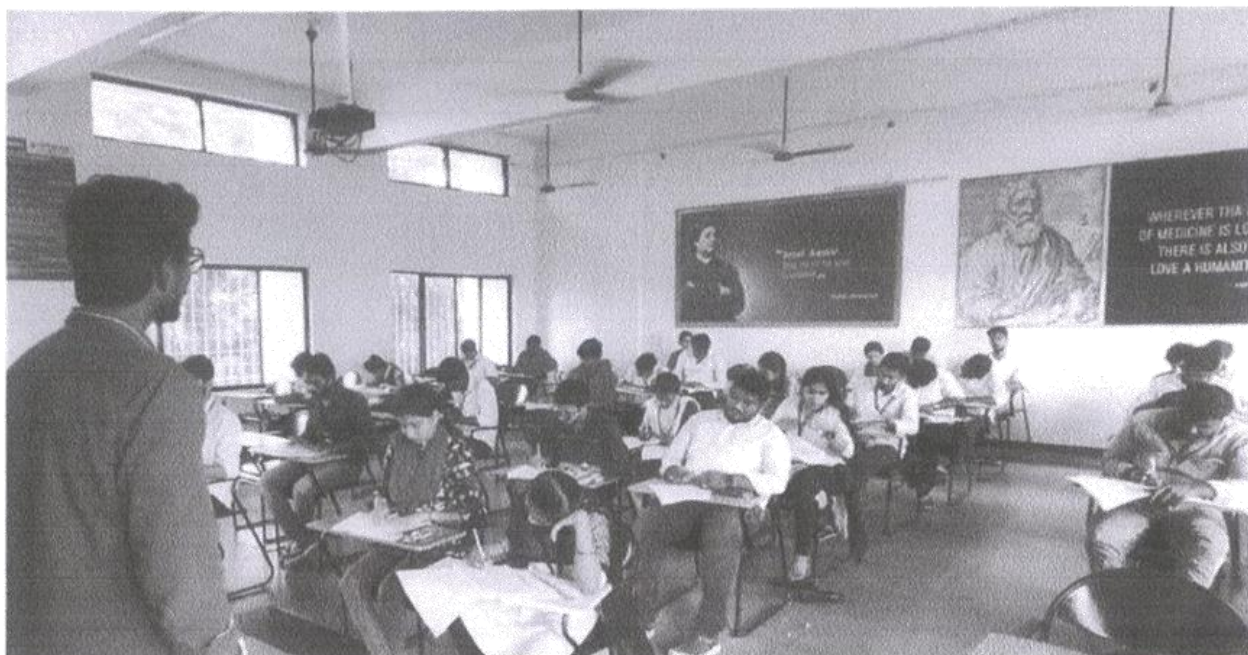
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Photograph:



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

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Longitude	83.164273°

Y. Suresh

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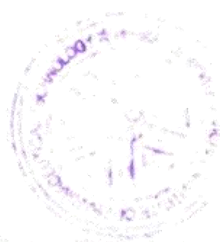
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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
06.09.2017 11AM to 1:00PM & 02:00 to 05:00PM	Introduction to vital signs, clinical significance, major abbreviations and definitions, variations in vital signs.	05
07.09.2017 11AM to 1:00PM & 02:00 to 05:00PM	Interpretation of Pulse/Heart Rate Definitions, normal values, tachycardia, bradycardia, measurement techniques, interpretation.	05
08.09.2017 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
09.09.2017 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
11.09.2017 11AM to 1:00PM & 02:00 to 05:00PM	Interpretation of Temperature Definition, different homeostatic mechanisms, hyperthermia, hypothermia, disorders and interpretation.	05
12.09.2017 11AM to 1:00PM & 02:00 to 05:00PM	Interpretation of Respiration Rate Definition, respiratory capacities, instruments, pulmonary function tests and interpretation.	05
13.09.2017 11AM to 1:00PM & 02:00 to 05:00PM	Interpretation of Pain Pain pathways, definition of pain, pain assessment scales and interpretation	05
Total		35Hrs


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Value Added Course on

MEDICAL TERMINOLOGIES

SUMMARY REPORT

A Value-Added Course for Pharm.D IInd Year Students was organized by the Department of pharmacy at Vignan Institute of Pharmaceutical Technology from 18th to 25th June 2017. The course was conducted on “**MEDICAL TERMINOLOGIES**”. The resource person for the course is **Dr.Santosh Kumar Ranajit, Associate Professor** , Vignan Institute of **Pharmaceutical Technology**. He has experience to train students skills regarding medical terminologies . The course started on **18 July 2017** with the welcome address by the coordinator and introductory remarks by the **Dr. T.N Venkatesh, Assistant Professor**, Vignan Institute of Pharmaceutical Technology. It ended on 25th June 2017 with concluding remarks by the resource person. A total of **25** students participated and completed the course. The overall feedback from the participants was very good.

Course Objective: This course is designed with a singular goal: to develop medical terminology skills and help students to develop basic vocabulary of medical terms and abbreviations.



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Course Outcomes:

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

It helps you learn the proper terminology for major diseases and pathological conditions as well as each system of the body and basic vocabulary of medical terms and abbreviation.



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4/8/2020

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PROGRAM SCHEDULE

S.No	Module Name	Number of Hours
18--07-2017 10:00 to 12:00 pm 01:00 to 3:00pm	Introduction to Medical Terminology, basic term structure, word roots, prefixes, suffixes	5
19--07-2017 10:00 to 12:00 pm 01:00 to 5:00pm	Introduction to Medical Language and Records- , Word Parts, Putting It All Together, Medical Records and Abbreviations	5
20--07-2017 10:00 to 12:00 pm 01:00 to 4:00pm	Integumentary System like common complaints, tests, diagnoses, and treatments used in dermatology.	5
21--07-2017 10:00 to 12:00 pm 01:00 to 4:00pm	Musculoskeletal System- Musculoskeletal - Introduction and Word Parts, Subjective Terms, Assessment Terms, Plan Terms	5
22-07-2017 10:00 to 12:00 pm 01:00 to 4:00pm	Cardiovascular system—cardiovascular, Subjective Terms, Assessment Terms, Plan Terms	5
24-07-2017 10:00 to 12:00 pm 01:00 to 4:00pm	Urinary system—urinary system terms - Introduction and Word Parts, Subjective Terms, Assessment Terms, Plan Terms	5



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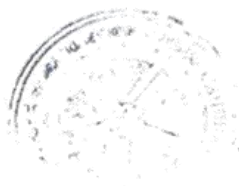
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25-07-2017		
10:00 to 12:00 pm	Course Final Assessments and Conclusion, practice exercise	5
01:00 to 4:00pm		
Total		35 Hrs

Urvashi

CO-ORDINATOR



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Value Added Course

On

PALLIATIVE CARE IN CANCER

SUMMARY REPORT

A Value-Added Course for PharmD 3rd Year Students was organized by the Department of pharmacy at Vignan institute of pharmaceutical technology from 1st to 8th august 2017. The course was conducted on "**Palliative Care in Cancer**". The resource person for the course is **Dr. T.N Venkatesh**, Assistant Professor, Vignan Institute of Pharmaceutical Technology. He has experience to train students skills regarding Palliative care in cancer. The course started on 01-08-2017 with the welcome address by the coordinator and introductory remarks by the **Dr.V.S.Swathi**, Assistant Professor, Vignan Institute of Pharmaceutical Technology.

It ended on 1-08-2017 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 is specially designed to provide information and guidance at a level appropriate for patients and non –medical participants as well as medical professionals interested in receiving evidence –based guidance on the safety and effectiveness of herbal medicine in cancer care.

Course Outcomes:

Upon completion of the course, the student will be able to understand palliative care setting, and providing guidance on the safe and effective use of cancer chemotherapeutic agents.



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PROGRAM SCHEDULE

Date & Time	Topic	No of Hours
1-08-2017 10:00 to 12:00 pm 01:00 to 3:00pm	Introduction tradition herbal medicine in supportive cancer care, Concepts in Traditional Herbal Medicine, Dilemmas associated with Herbal Medicine use in cancer care and Herbal medicine and cancer – a cross-cultural perspective	4
2-08-2017 10:00 to 12:00 pm 01:00 to 3:00pm	Concepts related to supportive and palliative cancer care-care, The emergence of a holistic approach in oncology care and Challenges to Palliative Care in developing countries	4
3-08-2017 10:00 to 12:00 pm 01:00 to 3:00pm	Defining non-conventional approaches to medical treatment- Transition from an alternative to and integrative medicine model, From an "alternative" to an "integrative" medicine model of care: historical perspective, The message of integration: "Open-Minded Scepticism	4
4-08-2017 10:00 to 12:00 pm 01:00 to 3:00pm	Key concepts in traditional herbal medicine-from field, kitchen and to clinic	4
5-08-2017 10:00 to 12:00 pm 01:00 to 3:00pm	Discussing the use of Traditional Herbal Medicine, Major issues to consider during the integrative physician consultation and Assessing the effectiveness and safety of herbal medicine in cancer care,	4
7-08-2017 10:00 to 12:00 pm 01:00 to 4:00pm	Traditional Herbal Medicine in the Middle East: Historical and cultural roots, Key concepts in traditional herbal medicine in the Middle East and Traditional Middle Eastern medicine herbs being used in cancer care, Additional Middle Eastern herbs being used in cancer care	5



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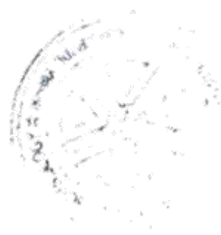
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8-08-2017 10:00 to 12:00 pm 01:00 to 4:00pm	Traditional Ayurveda herbal medicine- predominant Ayurvedic herbs being used in supportive cancer care and Traditional Ayurvedic herbal medicine	5
	Total hours	30

S. S. S.
CO-ORDINATOR



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Value added course on Health Informatics

SUMMARY REPORT

A Value-Added Course for PharmD IVth Year Students was organized by the Department of pharmacy at Vignan Institute of Pharmaceutical Technology from 13th to 18th November 2017. The course was conducted on “**Health Informatics**”. The resource person for the course is **Mr.M.Vinod Kumar**, Assistant Professor , Aditya Pharmacy College . He has experience to train students skills regarding Health Informatics . The course started on **13-11- 2017** with the welcome address by the coordinator and introductory remarks by the **Dr.Santosh Kumar Ranajit, Associate Professor**, Vignan Institute of Pharmaceutical Technology. It ended on 18 - 11-2017 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 is the study and application of methods to improve the management of patient data, clinical knowledge, population data, and other information relevant to patient care and community health.

- **Course Outcomes:**

Analyze problems: Analyze, understand, abstract, and model a specific biomedical problem in terms of their data, information, and knowledge components and Team effectively with partners within and across disciplines.



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PROGRAM SCHEDULE

Date & Time	Module Name	No. of Hours
13-11-2017 9:00 to 12:00 pm 2:00 to 4:00pm	Fundamental algorithms and Methods of medical informatics- Parsing and Transforming Text Files, Utility Scripts, Viewing and Modifying Images Indexing Text	5
14-11-2017 9:00 to 12:00 pm 2:00 to 4:00pm	The international classification of diseases-sample cases	5
15-11-2017 9:00 to 12:00 pm 2:00 to 4:00pm	Primary tasks of medical informatics- Health Information Systems, Health Care Data Analytics, Information Governance, Patient and Organizational Information Privacy and Security, and Health Systems Leadership.	5
16-11-2017 9:00 to 12:00 pm 2:00 to 4:00pm	Case study: emphysema , different case studies	5
17-11-2017 9:00 to 12:00 pm 2:00 to 4:00pm	Case study: cancer occurrence rates, case studies	5



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18-11-2017 10:00 to 12:00 pm 2:00 to 4:00pm	Conclusion and assessment- overall preview and Real World Applications of Data Science in Health Informatics Health informatics and health equity: improving our reach and impact	5
	Total Hours	30


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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 to 31st October 2017. The course was conducted on "**Biomedical Nanotechnology**". The resource person for the course is **Dr B.Nagamani**, Associate Professor, Viswanadha Institute of Pharmaceutical sciences. The course started on 23rd October 2017 with the welcome address by the coordinator and introductory remarks by the head of the Department **Dr P.V. Kamala Kumari, Professor, VIPT**. It ended on 31st October 2017 with concluding remarks by the resources person. A total of 37 students participated and completed the course. The overall feedback from the participants was very good.

Course Objectives:

The main objective of this course is to impart knowledge on biomedical applications of nanotechnology.

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



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

Date: 23rd to 31st October 2017

Latitude 17.120614⁰

Longitude 83.253211⁰



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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
23/10/2017 01:00 to 06:00PM	Introduction Nano-biomimicry, Synthesis of nanomaterials by physical and chemical methods, Synthesis of nanomaterials by biological methods	5
24/10/2017 01:00 to 06:00PM	Characterisation of nanomaterials. DNA nanotechnology, Protein & glyco nanotechnology, Lipid nanotechnology, Bio-nanomachines,	5
25/10/2017 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
26/10/2017 01:00 to 06:00PM	Nanoartificial cells, Nanotechnology in organ printing Nanotechnology in point of care diagnostics, Nanopharmacology & drug targeting	5
27/10/2017 01:00 to 06:00PM	Cellular uptake mechanism of nanomaterials Carbon nanotube and its bioapplications	5
28/10/2017 01:00 to 06:00PM	Cellular uptake mechanism of nanomaterials	5
30/10/2017 02:00 to 04:30PM	Implants and prostheses, diagnostics and screening	2.5
31/10/2017 02:00 to 04:30PM	nanotechnology platforms for biomedicine, funding and policy implications	2.5
TOTAL		35

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



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

A Value-Added Course for M. Pharmacy Students organized by the Department of Pharmaceutics at Vignan Institute of Pharmaceutical Technology from 1st to 09th November 2017. The course was conducted on “**Drug Delivery Principles and Engineering**”. The resource person for the course is **Dr. G. Chandra Shekar Rao**, Professor, Yalamarthy pharmacy college, AP. The course started on 1st November 2017 with the welcome address by the coordinator **Dr. P. V. Kamala Kumari**, Professor, VIPT. It ended on 9th November 2017 with concluding remarks by the resources person. A total of 13 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective:

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

Course Outcomes:

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



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Name of the Value added Course: **Drug Delivery Principles and Engineering**
Date: **1st to 09th November 2017**

Latitude	17.120614 ⁰
Longitude	83.253211 ⁰



4 sheets

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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
1 st November 2017 01:00PM to 06:00PM	Pharmacokinetics: Bioavailability, Elimination, Therapeutic index, Prodrugs, Controlled release, Polymers: Synthesis, properties, characterization, crystallinity and amorphousness	5
2 nd November 2017 01:00PM to 06:00PM	Biopolymers: Natural and Synthetic, biocompatibility, Biodegradation, commonly used biopolymers, Polymer-Drug conjugates, PEGylation	5
3 rd November 2017 01:00PM to 06:00PM	Diffusion controlled systems, Ficks laws, Reservoir systems, Non-erodible matrix systems, Bio-erodible Systems	5
4 th November 2017 01:00PM to 06:00PM	Ficks laws, Reservoir systems, Non-erodible matrix systems, Bio-erodible Systems, Metal and polymeric particles, effect of particle shape, charge and elasticity.	5
6 th November 2017 01:00PM to 06:00PM	Hydrogels: Physical or chemical, pore-size calculation, in-situ, Nano and Micro-particles: Dendrimers, Liposomes, Micelles	5
7 th November 2017 01:00PM to 06:00PM	Protein Adsorption and tissue engineering, Drug delivery in tissue engineering, Implant associated infections	5
8 th November 2017 02:00PM to 04:30PM	Route specific delivery: Oral, Subcutaneous, Intramuscular, transdermal, inhalation, intravenous	2.5
9 th November 2017 02:00PM to 04:30PM	Vaccines, Cancer vaccines, Cell and gene delivery, Smart responsive drug delivery, Targeted drug delivery, Nanotoxicology and market translation	2.5
Total		35

P.V. *[Signature]*
COORDINATOR



[Signature]
PRINCIPAL



[Signature]
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VALUE-ADDED COURSE on Safety pharmacology interpretation

SUMMARY REPORT

Value-Added Course for M.Pharmacy I Year Students was organized by the Department of Pharmacology at Vignan institute of Pharmaceutical Technology from 6th to 14th November. The course was conducted on "Safety Pharmacology Interpretation". The resource person for the course is **Dr. Santosh Kumar Ranajit**, Associate Professor, Vignan Institute of Pharmaceutical Technology. The course started on 6th November 2017 with the welcome address by the coordinator **Dr. Rajkiran.K, Professor, VIPT**. It ended on 14th November 2017 with concluding remarks by the resource person. A total of 10 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective:

This course will help students to identify undesirable pharmacodynamic properties of a substance that may have relevance to its human safety

To evaluate adverse pharmacodynamic and/or pathophysiological effects of a substance observed in toxicology and/or clinical studies.

Course Outcomes:

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

Detect adverse effects liability (i.e., hazard identification)

Investigate the mechanism of effect (risk assessment)

Calculate a projected safety margin and implicate in clinical safety monitoring

Mitigate strategies (risk management)

Safety of Phase I clinical trial volunteers from acute adverse effects of drugs

Safety of protect patients (including patients participating in Phase II and III clinical trials)

Minimize risks of failure during drug development and post-marketing phases due to undesirable pharmacodynamic effects.



Dr. Santosh Kumar Ranajit
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Name of the Value added Course: **Safety pharmacology interpretation**
Date: **6th to 14th November 2017**

Latitude	17.711606°
Longitude	83.164273°



Principals
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PROGRAM SCHEDULE

Date& Time	Topic	No. of Hours
6 th November 2017 1.00PM-5.00PM	Introduction into Safety Pharmacology Definition and concepts of Safety Pharmacology, Tier-1 Safety Pharmacology, general considerations in selection design.	4
7 th November 2017 1.00PM-5.00PM	Background Guidelines and Good-Laboratory-Practice (GLP) The dose-response relationship of the adverse effect observed, <i>in vitro</i> Studies	4
8 th November 2017 1.00PM-5.00PM	Cardiovascular pharmacology <i>in-silico</i> , <i>in-vivo</i> , and <i>in-vitro</i> models, evaluation of ECGs and introduction into cardiac arrhythmias.	4
9 th November 2017 1.00PM-5.00PM	Central nervous system pharmacology core battery and supplemental studies, concordance with clinics	4
10 th November 2017 1.00PM-5.00PM	Respiratory pharmacology Anatomy and physiology of respiration and tests on respiration	4
11 th November 2017 1.00PM-6.00PM	Tier-2 safety pharmacology Supplementary studies related to Renal System and Gastrointestinal system	5
13 th November 2017 1.00PM-6.00PM	Drug discovery and development Discovery & Development, Preclinical Research Clinical Drug Development Process, FDA Review and Post-Market Monitoring	5
14 th November 2017 1.00PM-6.00PM	Mechanisms of drug-induced toxicities hypersensitivity and related immunological reactions; off-target pharmacology; biological activation to toxic metabolites; and idiosyncratic toxicities.	5
Total		35

CO-ORDINATOR

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VALUE ADDED COURSE

on

NANOROBOTICS

SUMMARY REPORT

A Value Added Course for M. Pharmacy Students organized by the Department of Pharmaceutics at Vignan Institute of Pharmaceutical Technology from 4th to 12th December 2017. The course was conducted on "**Nanorobotics**". The resource person for the course is **Dr. M. Saritha**, Professor, Vignan Institute of Pharmaceutical Technology, AP. The course started on 4th December 2017 with the welcome address by the coordinator. It ended on 12th December 2017 with concluding remarks by the **Mr. P.N. Mallikarjun**, Assistant Professor, VIPT. A total of 24 students participated and completed the course. The overall feedback from the participants was very good.

Course Objective:

- To foundational knowledge of the Nanoscience and related fields.
- To make the students acquire an understanding the Nanoscience and Applications
- To help them understand in broad outline of Nanoscience and Nanotechnology

Course Outcomes:

After completing this course students will be able to:

- Learn about the background on Nanoscience
- Understand the synthesis of nanomaterials and their application and the impact of nanomaterials on environment
- Apply their learned knowledge to develop Nanomaterial's.



4/2/2018

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

Date: **4th to 12th December 2017**

Latitude	17.110635 ⁰
Longitude	83.152108 ⁰



G. Somesh
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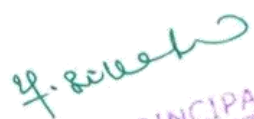
PROGRAM SCHEDULE

Date & Time	Topic	No. of Hours
4 th December 2017 01:00PM to 06:00PM	Overview of Nanorobotics: Actuation at Nanoscales, Electrostatics, Electromagnetics	5
5 th December 2017 01:00PM to 05:00PM	Piezoelectrics: Nanorobotic Manipulation Systems, Electrostatics	4
6 th December 2017 01:00PM to 05:00PM	Nanorobotic Assembly: Overview and Carbon Nanotubes	4
7 th December 2017 01:00PM to 06:00PM	Biomanipulation: Nanocoils, Robotic Biomanipulation, – Autonomous Robotic Pronuclei DNA Injection, MEMS-Based Multi-Axis Capacitive Cellular Force Sensor	5
8 th December 2017 01:00PM to 05:00PM	Nanorobotic Devices: Robotic Nanomanipulation, Electron Microscopy, Scanning Electron Microscope (SEM), Transmission Electron Microscope (TEM),	4
9 th December 2017 01:00PM to 05:00PM	Scanning Probe Microscopy (SPM), Scanning Tunneling Microscope (STM), Atomic Force Microscope (AFM)	4
11 th December 2017 01:00PM to 06:00PM	Nanomanipulation with the SPM Manipulation of Atoms, Manipulation of Nanoparticles,	5
12 th December 2017 01:00PM to 05:00PM	Manipulation of Carbon Nanotubes Nanoscale Gripping- Optical Tweezers, Nanotweezers, Dielectrophoresis, Joining Nanostructures, Cutting Nanostructures	4
Total		35


CO-ORDINATOR


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