



BAPATLA COLLEGE OF PHARMACY

(Sponsored by Bapatla Education Society), (Recognized by A.I.C.T.E&PCI)

(Affiliated to Jawaharlal Nehru Technological University, Kakinada)

Bapatla , Bapatla (Dist), Andhra Pradesh -522101

List of Certificate/ Add-on Programs

Academic Year: 2019-20

S.No	Name of the Program	Duration of Course	No. of Participants
1	A two week add on program on physical properties of drug molecules in drug product design and performance	14-10-2019 to 29-10-2019	96
2	A two week add on program on IR spectroscopy: analysing IR spectra and quantitative approach	26-11-2019 to 11-12-2019	53
3	A two week add on program on training on insilico screening methods in bioassays	26-11-2019 to 11-12-2019	38
4	A two week add on program on analytical method development by QBD approach	02-12-2019 to 17-12-2019	16
5	A two week add on program on regulations in india for ayush drugs	10-02-2020 to 25-02-2020	47
6	A two week add on program on advances in manufacturing techniques of solid dosage forms	10-02-2020 to 25-02-2020	44

Dr. K. Rajyalakshmi
IQAC



T. G. Balakrishna
PRINCIPAL

PRINCIPAL
Bapatla College of Pharmacy
Bapatla 522 101



BAPATLA COLLEGE OF PHARMACY

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Bapatla, Guntur(Dist), Andhra Pradesh -522101

Dt: 30/09/2019

CIRCULAR

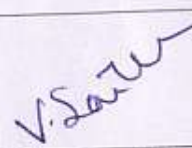
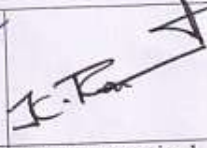
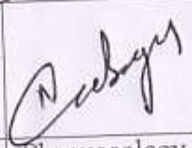
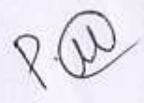
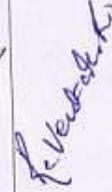
All the II / IV B.Pharmacy Students are here by informed that the Department of Pharmaceutics is organizing A TWO WEEK ADD ON PROGRAM ON "PHYSICAL PROPERTIES OF DRUG MOLECULES IN DRUG PRODUCT DESIGN AND PERFORMANCE" by Dr.T.E.Gopala Krishna Murthy ,Professor & Principal BAPATLA COLLEGE OF PHARMACY from OCTOBER 14th to 29th . So the interested students can register their names on or before OCTOBER 12th .

Venue: Seminar Hall (S06)

Coordinator: Mr.Ch.Venu Babu, Assistant Professor, Dept. of Pharmaceutics


Principal

Copy forward to

Signature of all HOD'S				TPO	IQAC	Office	Library
							
Pharmaceutics	Pharmaceutical Chemistry & Analysis	Pharmacology	Pharmacognosy				

BAPATLA COLLEGE OF PHARMACY (BCOP):

Bapatla College of Pharmacy is one of the seven educational institutions founded and run by Bapatla Educational Society (Estd.1962). It is one of the first private pharmacy colleges established in the year 1995 with requisite infrastructure facilities and competent human resources; The College is one of the "oldest and reputed pharmaceutical institutions in the state of Andhra Pradesh. It is located in 55 acres green campus with 50,000 sq ft state of the art teaching and laboratory facilities, the college houses an A.P. State Govt approved FR &D centre in its campus.

ABOUT THE ADD ON PROGRAM:

This course is aimed to improve the knowledge of students on solvent selection and their influence on product development, efficacy, stability and safety of drug product. Various solvents are used in production of bulk drug and product development. The key considerations pertaining to selection of solvent based on drug product, route of administration, organoleptic issues, ease of product development and regulatory prospective point of view are elaborately discussed. Appropriate experimentation and demonstration with proper case studies are also proposed in this programme schedule

TOPICS COVERED:

Factors influencing the drug diffusion Role of stability in pharmaceutical product development Importance of optical activity and refractive index on biological activity of drug Applications of complexation in improving the drug bioavailability and stability Significance of physical properties in drug transportation Influence of physical properties in design of immediate release, controlled and targeted drug delivery systems

A TWO WEEK ADD ON PROGRAM ON

"Physical properties of Drug molecules in Drug product Design and Performance"

14-10-2019 TO 29-10-2019

DEPARTMENT OF PHARMACEUTICS



Bapatla College Of Pharmacy

Bapatla College of Pharmacy(Sponsored by Bapatla Educational Society). (Approved by PCI and Affiliated to Jawaharlal Nehru Technological University, Kakinada) Bapatla, Guntur[dist], Andhra Pradesh -522101

ABOUT THE DEPARTMENT :

Pharmaceutics Department is one of the asset to our institution, having 4 Ph.D and 7 M. Pharm qualified faculty to support the academic and multidisciplinary research activities. The department is equipped with modern R & D equipment such as rotary tablet machine, bi layered tablet machine, double cone blender, extruder spheronizer, fluidised bed coater, R & D coating pan and Brookfield viscometer are available in addition to the equipment recommended by the statutory agencies

ADDRESS FOR COMMUNICATION

Mrs.G.Pavani Priya
Assistant Professor
Department of Pharmaceutics
Phone Number :9652068625
Email ID : gpavanipriya86@gmail.com

Last date for registration
12-10-2019

CHIEF PATRON

M.Srinivasa Rao - President of Bapatla
Education Society

CONVENOR:

Dr. K .Rajya lakshmi
Associate professor
Department of pharmaceutics

ORGANISING SECRETARY:

Mrs.G.Pavani Priya
Assistant professor
Department of Pharmaceutics

RESOURCE PERSON :

Dr.T.E GOPALA KRISHNA MURTHY
Principal & Professor
Bapatla college of pharmacy

PROGRAM CO-ORDINATOR:

Ch.Venu Babu – Assistant Professor

ORGANISING COMMITTEE:

Dr. T.V.Rao – Professor
Department of Pharmaceutics
Mrs. M.Sukanya - Assistant Professor
Department of Pharmaceutics

STUDENT COORDINATORS:

Ms. Ch. Sushma – II Year B.Pharmacy
Ms. Ramya – II Year B.Pharmacy



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Bapatla, Guntur(Dist), Andhra Pradesh -522101

Department of pharmaceutics:

Name of the program: A TWO WEEK ADD ON PROGRAM ON "PHYSICAL PROPERTIES OF DRUG MOLECULES IN DRUG PRODUCT DESIGN AND PERFORMANCE"

Program schedule:

S.No	Day	Schedule
1.	14 th october 2019	Inauguration of the session with the welcome address by the coordinator Sri Ch.Venu babu and key note address by Dr. V.Saikishore, Head of the Department of pharmaceutics, followed by the lecture on Introduction to additive, constitutive and colligative properties.
2.	15 th october 2019	Solubility estimation and expression, factors influencing drug solubility
3.	16 th october 2019	Influence of optical activity, molar refraction on biological activity.
4.	17 th october 2019	Colligative properties considerations in sterile dosage forms.
5.	18 th october 2019	Experiments to correlate the dielectric constant, complexation and concentration of surfactant on aqueous solubility of a drug having pH dependent solubility and poor aqueous solubility.
6.	19 th october 2019	Physical stability and stability testing of different dosage forms
7.	21 st october 2019	Experiments to study the influence of pH on hydrolysis of a model drug.
8.	22 nd october 2019	Dissolution and dissolution testing of solid dosage forms.
9.	23 rd october 2019	Development of dissolution media, mechanisms and kinetics of drug release.
10.	24 th october 2019	Drug diffusion and factors involved in different biological membranes. Components and techniques reported to improve drug permeability
11.	25 th october 2019	Demonstration of drug diffusion by using chicken ileum
12.	26 th october 2019	Physical properties and their influence on drug bioavailability
13.	28 th october 2019	Impact of physical properties on drug release from different dosage forms.
14.	29 th october 2019	Physical targeting, open discussion and valedictory session

Program coordinator: Mr. Ch. Venu Babu

Assistant Professor, Dept. of Pharmaceutics



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Bapatla, Guntur(Dist), Andhra Pradesh -522101

Dt: 01/11/2019

PROGRAM REPORT

Name of Program: A TWO WEEK ADD ON PROGRAM ON "PHYSICAL PROPERTIES OF DRUG MOLECULES IN DRUG PRODUCT DESIGN AND PERFORMANCE"

Date & Duration : 14.10.19 TO 29.10.19 ; 2 WEEKS

Resource Person: Dr.T.E.Gopala Krishna Murthy, Professor & Principal

Contact Details: 9912342094

Mail ID: bcp.principal@gmail.com

Name of the Coordinator: Mr.Ch.Venu Babu, Assistant Professor

Contact Details: 9948746121

Mail ID: bcopvenu@gmail.com

Number of Students Attended: 96

Venue: Seminar Hall, (S06)

Bapatla College of Pharmacy, Bapatla organized". A TWO WEEK ADD ON PROGRAM ON "PHYSICAL PROPERTIES OF DRUG MOLECULES IN DRUG PRODUCT DESIGN AND PERFORMANCE" The program was inaugurated by Dr.V.Saikishore, Head of the Department of pharmaceuticals on 14th October 2019 at Seminar Hall. During this two week session extensive deliberations on influence of physical properties of drug molecules on the development of drug product and the physical properties to be considered to monitor the drug transportation and drug product efficacy was discussed by the resource person Dr.T.E.Gopala Krishna Murthy. In addition to lectures by the resource person, demonstrations and experimentations were also performed by student groups. On 29th october 2019 valedictory session was conducted and participation certificates were issued to the attendees. The session ended with the closing remarks of the Coordinator Mr.Ch.Venu Babu.

Objectives:

- Physical factors and its impact on drug solubility, stability and performance.
- Study the influence of dielectric constant and micelle on drug solubility with practical approach.
- Determine the influence of pH on drug solubility and stability experimentally.
- Demonstration of diffusion phenomenon by using chicken ileum
- Formulation and evaluation of drug - cyclodextrin complexes
- Physical properties to be considered in the design of modified release drug product

Learning Outcomes:

After completion of this course the students are able to:

- Improve the solubility of poorly soluble drugs.
- Enhance the stability of drugs.
- Perform in vitro diffusion studies.
- Develop and characterize drug - excipient complexes



Signature of program coordinator



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Bapatla, Guntur (Dist). Andhra Pradesh -522101

Dt: 11-11-2019

CIRCULAR

This is hereby to inform all students of IV/IV B.Pharm -1st sem/7th sem that Department of Pharmaceutical Chemistry & Analysis is going to conduct a "TWO-WEEK ADD ON PROGRAM ON IR SPECTROSCOPY: ANALYSING IR SPECTRA AND QUANTITATIVE APPROACH" by Y. Sushma, Assistant Professor, from 26-11-2019 to 11-12-2019. So here by all the students are instructed to register on or before 22-11-2019 and utilize this golden opportunity to abreast knowledge by attending the classes.

Venue: Classroom F02

Coordinator: S. Shobha, Assistant Professor, Dept of Pharmaceutical Chemistry & Analysis.

T. Gobalakrishna
PRINCIPAL

PRINCIPAL
Bapatla College of Pharmacy
Bapatla 522 101

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Signature of all HOD'S				TPO	IQAC	Office	Library
<i>V. Sauri</i>	<i>K. Ravi</i>	<i>C. Subbarao</i>	<i>P. W.</i>	<i>K. Ravi</i>	<i>K. Ravi</i>	<i>K. Ravi</i>	<i>K. Ravi</i>
Pharmaceutics	Ph. Chemistry & Analysis	Pharmacology	Pharmacognosy				

ABOUT COLLEGE:

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ABOUT DEPARTMENT:

The Department of Pharmaceutical Chemistry & Analysis, is committed to excellence in the field of same to produce a competent pharmaceutical analyst to meet the current scenario of pharmaceutical industries. The department aims to focus on the development of analytical methods using new combinations of established instrumentation and approaches. A broad knowledge of pharmaceutical analysis is disseminated to the students by a team of inspired and enthusiastic faculty members who are involved in teaching and learning process. The department mainly involves in qualitative and quantitative analysis of natural and synthetic compounds using spectroscopy, chromatography and various other analytical techniques.

ABOUT ADD-ON PROGRAM:

This value add on course is designed to train the participants on the basics of IR spectroscopy and to provide them an understanding and analysing the IR spectral data, that facilitate skills and extend their interest in different areas.

The fundamentals of the technique, instrumentation and applications will be discussed thoroughly. The significance of FTIR spectroscopic technique will also be explained. The resource person is well experienced in teaching the relevant subject.

TOPICS TO BE COVERED

Content of the program would touch upon the following aspects to achieve the objectives

Basic theory and fundamentals of IR spectroscopy

- Principle of IR spectroscopy; vibrational modes
- Types of vibrations
- Factors influencing vibrational frequency
- Instrumentation
- Detectors
- Applications
- Interpretation of IR spectrum



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(AFFILIATED TO JAWAHARLAL NEHRU TECHNOLOGICAL
UNIVERSITY, KAKINADA)

**A TWO WEEK ADD ON PROGRAM
ON
"IR SPECTROSCOPY:
ANALYSING IR SPECTRA AND
QUANTITATIVE APPROACH**

Program Duration:
26-11-2019 to 11-12-2019

REGISTRATION FORM

1. NAME:
2. REGISTRATION NO:
3. YEAR OF STUDY:
4. ORGANIZATION:
5. SEX (MALE/ FEMALE):
6. ADDRESS FOR
CORRESPONDENCE:
7. PIN:
8. PHONE:
9. E-MAIL:

SIGNATURE OF THE PARTICIPANT

SIGNATURE OF THE HEAD OF THE INSTITUTE
(WITH OFFICIAL SEAL ONLY)

CHIEF PATRON

M. Srinivasa Rao
President of Bapatla Education Society

CONVENOR

Dr. T. E. Goapala Krishna Murthy
Principal & Professor
Bapatla College of Pharmacy

ORGANISING SECRETARY

S. Shobha
Assistant Professor
Dept of Ph. Chemistry & Analysis

RESOURCE PERSON

Y. Sushma,
Assistant professor
Dept of Ph. Chemistry & Analysis

PROGRAM COORDINATOR

S. Shobha – Assistant Professor
Dept of Ph. Chemistry & Analysis

ORGANISING COMMITTEE

K. Poorna – Assistant Professor
K. Krishnanjaneyulu - Assistant Professor

STUDENT COORDINATORS

Dharma Teja- IV B. Pharmacy
Anusha- IV B. Pharmacy

**Last Date For
Registration On or
Before
22-11-2019**

ADDRESS FOR COMMUNICATION

Ms. S. Shobha
Assistant Professor
Dept OF Ph. Chemistry & Analysis
Contact: 9515499364
E-mail Id:
shobhasingarapalle17@gmail.com



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Department of Pharmaceutical Chemistry & Analysis

**Name of the Program: A TWO-WEEK ADD ON PROGRAM ON IR SPECTROSCOPY:
ANALYSING IR SPECTRA AND QUANTITATIVE APPROACH**

PROGRAM SCHEDULE

S.No	Date	Topic
1.	26-11-2019	IR: Theory, Principle; Concept of molecular vibrations
2.	27-11-2019	Different types of vibrational modes; their calculation
3.	28-11-2019	Vibrations in Polyatomic molecules
4.	29-11-2019	Hookes rule; Factors effecting IR frequencies
5	30-11-2019	Various absorption frequency regions
6	02-12-2019	Instrumentation: Optical components and detectors
7	03-12-2019	Qualitative applications: Taking of IR spectrum from the device and analysing spectrum for hydrocarbons
8	04-12-2019	Analysing spectral features for alkanes
9	05-12-2019	Analysing spectral features for alkenes
10	06-12-2019	Analysing spectral features for alkynes
11	07-12-2019	Analysing spectral features for alcohols and phenols
12	09-12-2019	Analysing spectral features for carbonyl compounds
13	10-12-2019	Analysing spectral features for carboxylic acids
14	11-12-2019	Impact of IR in quantitative analysis

S. Shobha
Coordinator
S. Shobha

K. Ranjith
HOD
K. Ranjith



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Bapatla, Guntur (Dist), Andhra Pradesh -522101

Dt: 14-12-2019

PROGRAMME REPORT

Name of the Program: A Two week add on Program on IR-Spectroscopy: Analyzing IR spectra and quantitative approach.

Date & Duration: 26-11-2019 to 11-12-2019; 2 WEEKS

Resource Person: Y. Sushma

Assistant Professor

Dept of Pharmaceutical Chemistry & Analysis

Phone number: 7013950117

Email ID: sushma4venu@gmail.com

Program Coordinator: S. Shobha

Assistant Professor

Dept of Pharmaceutical Chemistry & Analysis

Phone number: 9515499364

Email ID: shobhasingarapalli17@gmail.com

Number of students participated: 53

Venue: F02, Bapatla college of pharmacy

Bapatla college of pharmacy, Bapatla has organised an add on program on "IR-Spectroscopy: Analyzing IR spectra and quantitative approach" for B.Pharm final year students by the resource person Y. Sushma. IR spectroscopy is widely used to determine the structures of unknown molecules, give a fingerprint of a sample, and measure the concentrations of molecules. Totally 53 students participated in this add on program and after completion of the program students were able to understand the following objectives and learning outcomes.

Objectives:

- To study about the basic theory; instrumentation
- To Explain the various absorption frequencies for the bonds and correlate them to the known sample
- To provide a sensitive probe for the determination of chemical functional groups in the unknown sample
- To learn estimation of components in a given sample

Topics to be covered:

- Fundamentals of IR spectroscopy
- Types of Vibrational modes
- Instrumentation: sample handling techniques and Detectors
- Qualitative analysis: Wavenumber of chemical bonds and IR spectra Analysis
- Quantitative analysis of sample

Learning outcomes: By the end of this course the student are able to

- Explain the basic concepts in infrared spectroscopy
- Define the molecular vibrations and vibrations of diatomic molecules
- Explain working mechanism of infrared spectrometer
- Understand regions according to the IR wavelength, frequency or wave number
- Interpret the spectra by following five zone analysis.
- Determine molecular structure of the simple molecules.
- Determine the molecular structures of unknown
- Measure the concentrations of molecules

Outcome of the Program:

The Bapatla College of Pharmacy, BAPATLA, arranged a highly successful add-on program. The Concept of IR spectroscopy and analyzing spectral data thoroughly taught to the students. Totally 53 students have participated in the program. The student will able to extend his skill in analyzing spectra for the determination of molecular structure of various organic and inorganic compounds.

S. Shobha

Signature of the Program Coordinator



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Bapatla, Guntur (Dist), Andhra Pradesh -522101

Dt: 11/11/2019

CIRCULAR

All the IV /IV B. Pharmacy Students are hereby informed that the Department of Pharmacology is Organizing a two – week add on program on “ **Training on insilico screening methods in bioassays** ” by B. Sudheer Chowdary Assistant Professor from 26-11-2019 to 11-12-2019. So here by all the students are instructed to register on or before 22-11-2019 and utilize this golden opportunity to abreast knowledge by attending the classes.

Venue: Room F13

Coordinator: B.SrinivasaRao, Assistant professor, Dept of Pharmacology

T. Gopalakrishna

Principal

PRINCIPAL

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Bapatla 522 101

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<i>V. Saitan</i>	<i>K. Rao</i>	<i>B. Sudheer</i>	<i>P. U</i>	<i>K. K</i>	<i>K. K</i>	<i>P. Ven</i>	<i>K. Srinivas</i>
Pharmaceutics	Pharmaceutical Chemistry & Analysis	Pharmacology	Pharmacognosy				

Chief patron

B. Sivarama Krishnagaru
President of Bapatla Education Socie

Convenor

Dr .T E Gopal krishna murthi
Principal

Organising Secretary

Dr M.Satish Kumar
Associate professor

Resource Person

B.Sudheer Chowdary
Assistant Professor
Bapatla College of Pharmacy
Program coordinator

Neelam begum-

Assistant Professor

Department of Pharmacology

Organising committe

Annie Mande

Assistant professor

B.Srinivasarao

Assistant professor

M.Sushma

Assistant Professor

Department of Pharmacology

Student Coordinators

Mr. Kurma Amar

IV Year B.Pharmacy

Ms.Tanneru Anusha

IV Year B.Pharmacy

About College

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**Contact : 9666810156
9700920070**



About the add on program :

This add on program is aimed to abreast the knowledge of students on various types of insilico screening methods in bioassays on these methods the potential targets are also identified by the molecular docking models Topics to be Covered : Different methods used in Insilico drug designing Structure based drug designing Molecular docking studies Prediction of ADME

RESOURCE PERSON

Mr B.Sudheer Chowdary

Assistant professor

Department of
pharmacology

Bapatla colege of pharmacy

Last date of registration

22/11/2019

About the Department:

The Department of Pharmacology at Bapatla College of Pharmacy was established in the year 1995. The department's mission is to advise and educate students about the various career paths available in the field of pharmacology. Leading the students with adequate training so they can fulfil the demands of a business, government research agency, pharmaceutical company, or academic environment.

The department has a sophisticated animal house facility and sufficient equipment to support pre-clinical research. It has advanced pharmacological equipment that can be used for a variety of tasks related to evaluating new chemicals. Other instruments like the T, Y, water, and radial arm mazes can be used for neurological screening. A plethysmograph, bioanalyser, analgesimeter, histamine chamber, electroconvulsimeter, rota rod apparatus, and other in vivo research instruments are also included.

Students in the department gained insight into the pharmacodynamics and pharmacokinetics of many medications that are sold on the market.

Students can receive training in handling a variety of equipment used in pharmacology, toxicological investigations, pharmacovigilance, and clinical pharmacology, which offers a wide range of work opportunities in the pharmaceutical industry

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(Kakinada)

A two – week add on program on
“Training on insilico screening methods
in bioassay



Date :26/11/2019 -11/12/2019



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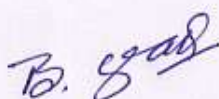
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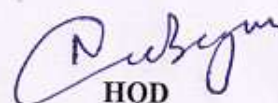
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Program schedule for the two - week add on Program "Training on insilico screening methods in bioassays"

S.No	Day	Schedule
1.	26/11/2019	Inauguration of the session with the welcome address by the coordinator sri B.Srinivasrao and key note address by Sudheer Chowdary, Assistant professor Department of pharmacology
2.	27/11/2019	Introduction of insilico screening methods in Bioassay
3.	28/11/2019	Application of insilico scanning methods in Drug development process
4.	29/11/2019	Different methods used in in silico drug designing
5.	30/11/2019	Computer aided drug designing
6.	1/12/2019	Structure based drug designing
7.	3/12/2019	Molecular Docking studies
8.	4/12/2019	Software used in molecular Docking studies
9.	5/12/2019	Target identification
10.	6/12/2019	Ligand preparation in molecular Docking
11.	7/12/2019	Protein preparation molecular Docking
12.	8/12/2019	Docking of ligand with protein
13.	10/12/2019	Evolution of Docking result
14.	11/12/2019	Importance of molecular Docking in bioinformatics


Co-ordinator


HOD



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Bapatla, Guntur (Dist), Andhra Pradesh -522101

Dt: 13/12/2019

PROGRAM REPORT

Name of the Program : A two – week add on program on **“Training on insilico screening methods in bioassays”**

Date: 26-11-2019 to 11-12-2019 (Two Week)

Resource Person: Mr. B. Sudheer Chowdary

Assistant Professor

Contact Details: 9966425564

Mail ID: sudheer.chowdary18@gmail.com

Course Coordinator: Mr B.Srinivasarao

Assistant Professor

Contact Details: 9700920070

Mail ID: srinivasmk143@gmail.com

Number of Students Attended: 38

Venue: F13

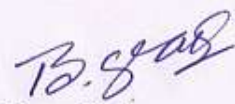
Bapatla College of Pharmacy, Bapatla had organized a two –week add on program on **“Training on insilico screening methods in bioassays”** During these two-week sessions extensive deliberations on insilico drug design in Bioassay and drug discovery student also gain knowledge about application of insilico drug designing in new drug development. At the end of the training program student also gain the knowledge to predict ADME properties of new drugs based on molecular docking result All the participants have acquired skills and knowledge in carrying out insilico methods which can be utilized in future for any research activities. After completion of the program the student were able to understand the following objectives & learning outcomes.

Objectives

- To gain knowledge about Insilico design
- To know the different software in molecular design
- To understand the application of Insilico drug design
- To identify the reliable targets for drug discovery
- To interpret the results in docking

Learning Outcomes

- Understood Insilico drug designing
- Understood applications of Insilico drug designing in new drug development
- Observed the software used for molecular docking
- Learned to identify different targets for drug discovery
- Learned to predict ADME properties of new drugs based on results of molecular docking


Co-ordinator


HOD



BAPATLA COLLEGE OF PHARMACY

(Sponsored by Bapatla Education Society), (Recognized by A.I.C.T.E&PCI)

(Affiliated to Jawaharlal Nehru Technological University, Kakinada)

Bapatla, Guntur (Dist), Andhra Pradesh -522101

Dt: 16-11-2019

CIRCULAR

This is hereby to inform all students of I/II M. Pharm -1st sem that Department of Pharmaceutical Chemistry & Analysis is going to conduct a "TWO-WEEK ADD ON PROGRAM ON ANALYTICAL METHOD DEVELOPMENT BY QBD APPROACH" by Dr. T.E.G.K. Murthy, Professor & Principal of Bapatla College of Pharmacy, Bapatla from 02-12-2019 to 17-12-2019. So here by all the students are instructed to register on or before 28-11-2019 and utilize this golden opportunity to abreast knowledge by attending the classes.

Venue: Seminar Hall - S06

Coordinator: K. Poorna Chandra Rao, Assistant Professor, Dept of Pharmaceutical Chemistry & Analysis.

Copy forward to:

T. Gopalakrishna
PRINCIPAL

Bapatla College of Pharmacy
Bapatla 522 101

Signature of all HOD'S				TPO	IQAC	Office	Library
<i>V. Sarin</i>	<i>K. Teja</i>	<i>Ch. Srinivas</i>	<i>P. Ravi</i>	<i>K. Teja</i>	<i>Ch. Srinivas</i>	<i>R. Venkatesh</i>	<i>K. Srinivas</i>
I st armaceutics	Ph.Chemistry &Analysis	Pharmacology	Pharmacognosy				

ABOUT ADD-ON PROGRAM:

This value add on course is designed to train the participants applying the QBD approach to develop an easy and robust technique for analysis of a product or a method development. Main objective of this program is to explain different steps involved in analytical method development to achieve quality in measurements. The QBD approach begins with the predefined objectives and uses sciences and risk management approaches to achieve product and method understanding and ultimately method control. The resource person is well experienced in teaching the relevant subject.

ABOUT THE DEPARTMENT:

The Department of Pharmaceutical chemistry & Analysis, is committed to excellence in the field of same to produce a competent pharmaceutical analyst to meet the current scenario of pharmaceutical industries. The department aims to focus on the development of analytical methods using new combinations of established instrumentation and approaches. A broad knowledge of pharmaceutical analysis is disseminated to the students by a team of inspired and enthusiastic faculty members who are involved in teaching and learning process. The department mainly involves in qualitative and quantitative analysis of natural and synthetic compounds using spectroscopy, chromatography and various other analytical techniques.

ABOUT ADD-ON PROGRAM:

This value add on course is designed to train the participants applying the QBD approach to develop an easy and robust technique for analysis of a product or a method development. Main objective of this program is to explain different steps involved in analytical method development to achieve quality in measurements. The QBD approach begins with the predefined objectives and uses sciences and risk management approaches to achieve product and method understanding and ultimately method control. The resource person is well experienced in teaching the relevant subject.

TOPICS TO BE COVERED:

- Introduction to QBD
- QTPP preparation for HPLC method development
- Document preparation regarding CQA
- Identification of CMA & CPP
- A case study on fixing dose design space
- Development of model to achieve desirability
- Demo on HPLC with model practical conditions
- Validation of model

**A WEEK ADD ON PROGRAM ON
"ANALYTICAL METHOD
DEVELOPMENT BY QBD APPROACH"**



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University, Kakinada)

ABOUT COLLEGE :

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ORGANIZING COMMITTEE

PATRON

Office Bearers of Bapatla Education Society

CONVENOR

Dr.T. E. Goapala Krishna Murthy
Principal & Professor
Bapatla College of Pharmacy

ORGANIZING SECRETARY

K. Shobha
Assistant Professor
Dept. of Pharmaceutical Chemistry & Analysis

RESOURCE PERSON

Dr.T. E. Goapala Krishna Murthy
Principal & Professor,
Bapatla College of Pharmacy

PROGRAM COORDINATOR

K. Poorna Chandra Rao
Assistant Professor
Dept. of Pharmaceutical Chemistry & Analysis

ORGANIZING COMMITTEE

Y. Sushma- Assistant Professor
S. Shobha - Assistant Professor

STUDENT COORDINATORS

K.Ravitheja - I Year M.Pharmacy
A. Abisha- I Year M.Pharmacy

PROGRAM DURATION

02-12-2019 TO 17-12-2019

Last date for registration
on or before 28-11-2019

ADDRESS FOR COMMUNICATION:

K. Poorna Chandra Rao
Assistant Professor
Dept of Ph.Chemistry &
Analysis

Contact No:9885071976

E-mail Id:

poorna7575@gmail.com

REGISTRAION FORM

- 1.NAME:
- 2.REGISTRATION NUMBER :
- 3.YEAR OF STUDY:
- 4.ORGANIZATION:
- 5.ADDRESS FOR
CORRESPONDANCE :
- 6.SEX (MALE/ FEMALE):
- 7.PIN :
- 8.PHONE :
- 9.E-MAIL ID :

SIGNATURE OF THE PARTICIPANT

SIGNATURE OF THE HEAD OF THE
INSTITUTE

(WITH OFFICIAL SEAL ONLY)



BAPATLA COLLEGE OF PHARMACY

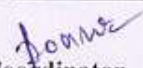
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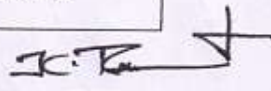
Department of Pharmaceutical Chemistry & Analysis

Name of the Program: A TWO-WEEK ADD ON PROGRAM ON ANALYTICAL
METHOD DEVELOPMENT BY QBD APPROACH

PROGRAM SCHEDULE

S.No	Date	Topic
1.	02-12-2019	Introduction to QBD
2.	03-12-2019	Factors to be considered in analytical method development
3.	04-12-2019	Importance of literature in identifying the CQA, CMA and CPP
4.	05-12-2019	QTPP preparation for HPLC method development & validation
5	06-12-2019	Document preparation regarding CQA
6	07-12-2019	Identification of CMA & CPP involved in HPLC method development with reference to a model drug
7	09-12-2019	A case study on fixing design space
8	10-12-2019	RSM design for optimization of analytical method
9	11-12-2019	Development of a model to achieve the desirability
10	12-12-2019	Demo on HPLC with model predicted conditions
11	13-12-2019	Method control strategy: suitability test
12	14-12-2019	Validation of the method
13	16-12-2019	FDA submission: assuring by analytical target profile
14	17-12-2019	Specifications: Based on method performance to ATP criteria


Coordinator
K. Poorna Chandra Rao


HOD
K. Ranjith



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Bapatla, Guntur (Dist), Andhra

Dt: 20-12-2019

PROGRAM REPORT

Name of the Program: A Two-week Add on program on "ANALYTICAL METHOD DEVELOPMENT BY QBD APPROACH"

Date & Duration: 02-12-2019 to 17-12-2019; 2 WEEKS

Resource person: Dr. T. E.G.K. Murthy
Professor & Principal
Bapatla College of Pharmacy, Bapatla
Phone number: 9849532112
Email ID: bcp.principal@gmail.com

Program Coordinator: K. Poorna Chandra Rao
Assistant Professor
Department of Pharmaceutical Chemistry & Analysis
Phone number: 9885071976
Email ID: poorna7575@gmail.com

Number of students participated: 16

Venue: Seminar Hall-S06, Bapatla College of pharmacy

Bapatla college of pharmacy, Bapatla has organized an add on program on "Analytical Method Development by QBD Approach" for M. pharm first year students by the resource person Dr. T.E.G.K. Murthy, Professor & Principal of BCOP. By applying QBD principles in analytical method development, pharmaceutical companies can enhance the robustness, reliability and efficiency of their analytical methods, ultimate leading to higher quality products and improved patient safety Totally 16 students participated in this add on program and after completion of the program students were able to understand the following objectives and learning outcomes.

Objectives:

- To achieve the quality product by better understanding of the process
- To prepare QTPP for analytical method development and validation
- To Identify the CQA, CMA and CPP involved in analytical method development
- To observe the risk assessment
- To optimize the inprocess parameters
- To construct the desired attributes with the knowledge of data process

Topics to be covered:

- Introduction and goals of the QBD approach
- Method selection: CQA
- Risk management: prior knowledge and preliminary experimentation
- Knowledge space: screening designs and determination of CPP
- Design space: optimization, desirability function and working point and design space validation: robustness
- Method validation and control strategy

Learning outcomes: After completion of the program the students are able to

- Prepare documents as per regulatory guidelines
- Improve knowledge on statistical and computational tools involved in method development and validation
- Develop a validated analytical method with optimized conditions
- Achieve hands on experience on HPLC

Outcome of the program:

The Bapatla College of Pharmacy, Bapatla, arranged a highly successful add-on program. The importance of QBD approach in analytical method development and strategies were thoroughly taught to the students. Totally 16 students have participated in the program. The student will emphasize the concept and implement the same for the quality product.

Signature of the Program Coordinator



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Bapatla, Guntur (Dist), Andhra Pradesh -522101

Date: 25-01-20

CIRCULAR

All the III / IV B.Pharmacy Students are here by informed that the Department of Pharmacognosy is organizing a two week Certification course on **"Regulations in India for AYUSH drugs"** by Dr. V. Sai Kishore from 10-02-20 to 25-02-20. So the interested students can register their names at the respective department before 07-02-20.

Venue : Room No. G08

Coordinator : Mrs. M. Sukanya, Assistant Professor

T. Gopalakrishna
PRINCIPAL

PRINCIPAL
Bapatla College of Pharmacy
Bapatla 522 101

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<i>V. Saikrishna</i>	<i>K. P. R.</i>	<i>P. R. S.</i>	<i>P. W.</i>	<i>K. P. R.</i>	<i>K. P. R.</i>	<i>K. P. R.</i>	<i>K. P. R.</i>
Pharmaceutics	Pharmaceutical Chemistry & Analysis	Pharmacology	Pharmacognosy				



Dr. TEGK Murthy
PRINCIPAL

About the Course

This course is a step by step process of learning about various systems of medicine, the importance of herbal medicine, present demand and current status of herbal medicine. The program mainly focus on the schedules for herbal drugs as per D & C Act, regulations and patenting process for herbal drugs in present scenario in India.



Resource person

Dr. V. Sai Kishore

Professor

Department of Pharmaceutics
Bapatla College of Pharmacy

About Us

Bapatla College of Pharmacy is one of the seven educational institutions founded and run by Bapatla Educational Society (Estd.1962). It is one of the first private pharmacy colleges established in the year 1995 with requisite infrastructure facilities and competent human resources; The College is one of the "oldest and reputed pharmaceutical institutions in the state of Andhra Pradesh. It is located in 55 acres green campus with 50,000 sq ft state of the art teaching and laboratory facilities, the college houses an A.P. State Govt approved FR &D centre in its campus.

Last date for registration:
7/2/20



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JNTUK, Kakinada
BAPATLA

A TWO WEEK CERTIFICATION COURSE ON

REGULATIONS IN INDIA FOR AYUSH DRUGS

10/2/20 - 25/2/20



About Department

Department of Pharmacognosy is engaged in the study of drugs from natural products. Research areas include extraction, isolation, characterization and pharmacological screening of phyto constituents using animal models. The department also deals with development and standardisation of novel herbal formulations. The department also organizes seminars and workshops on current topics at regular intervals. The institute also developed a medicinal garden having varied species of plants.



Convenor

Dr. TEGK Murthy

Principal

Program Coordinator

Mrs. M. Sukanya

Assistant Profesor
Department of Pharmaceutics

Organising secretary

Mr. B. Sudheer Chowdary

Assistant Professor
Department of Pharmacology

Organising Committee

Mrs. Annie Mande

Assistant Professor
Department of Pharmacology

Mrs. K. Rajya Lakshmi

Associate Professor
Department of Pharmaceutics

Student Coordinators

Mr. M. Abhinav

III Year B. Pharmacy

Ms. N. Mary Grace

III Year B. Pharmacy

KEY HIGHLIGHTS

- Herbal medicine and various systems of medicine
- Present scenario in India
- Guidelines and quality control
- Patenting and Case studies
- Enchancing market potential





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Bapatla, Guntur (Dist), Andhra Pradesh -522101

SCHEDULE OF THE PROGRAM

Name of the Program: A two week Certification course on “Regulations in India for AYUSH drugs”

S.No	Day	Schedule
1	10/2/20	Opening remarks by the Head of Department Mrs. P. Madhu Latha followed by introduction lecture on Regulations in India by speaker
2	11/2/20	Quality Control in Herbal products for global demand
3	12/2/20	Guidelines in patenting of herbal products
4	13/2/20	Challenges faced in Herbal regulations
5	14/2/20	Industry perspective of herbal drugs
6	15/2/20	AYUSH guidelines for clinical trials of herbal drugs
7	17/2/20	Understanding total quality management of herbal products
8	18/2/20	Bioprospecting of natural products – approval towards drug discovery
9	19/2/20	Regulatory requirements in the manufacturing, processing and storage of herbal products
10	20/2/20	Strategies to enhance market potential of herbal formulation
11	21/2/20	Problems to remote in regulation of herbal drugs, Herb Patent Case study
12	22/2/20	Growing use and demand for Herbal Medicines and New regulatory guidelines of AYUSH
13	24/2/20	Quality Control of Herbal Drugs as per WHO and ICH guidelines
14	25/2/20	Schedule T & Y, valedictory function

M. Sukanya
COORDINATOR

P. W
HEAD OF THE DEPARTMENT



BAPATLA COLLEGE OF PHARMACY

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Bapatla, Guntur (Dist), Andhra Pradesh -522101

Dt: 26/02/20

PROGRAM REPORT

Name of the Course	A two - week Certification course on “Regulations in India for AYUSH drugs”
Date	6/09/22 – 21/09/22
Resource Person	Dr. V. Sai Kishore Professor Mobile:9440938249 E mail: voiceofsaikishore@yahoo.com
Program Coordinator	Mrs. M. Sukanya, Assistant Professor Mobile: 9550225353 E mail : sukanyamanam87@gmail.com
Number of Students Attended	47
Venue	Room No. G08

Bapatla College of Pharmacy, Bapatla organized the two-week certification course on “Regulations in India for AYUSH drugs”.

The program was started with the introduction speech by HOD Mrs. P. Madhu Latha on 10-2-2020 at Room No. G08. During this two week session extensive deliberations on regulations and laws for AYUSH drugs has been discussed. The different systems of medicine, approval of patent and proprietary Ayush drugs has also been discussed. The session ended with the closing remarks of the Coordinator Mrs.M. Sukanya.

Objectives:

- To bring awareness among students about the safety of AYUSH drugs so as to minimise adverse effects.
- To gain knowledge about how to maintain the efficacy of AYUSH drugs and to provide maximum benefit to the patient.
- To understand how to provide cost effective and equitable AYUSH healthcare all over India by enhancing access to services.

- To strengthen and revitalise the AYUSH systems enabling them to become prominent medical streams in the country.

Learning Outcomes:

After completion of this course the students are able to:

- Understand different systems of medicine.
- To conduct, develop and coordinate scientific research in different aspects, fundamental and applied of AYUSH drugs and to promote and assist institutions of research for the study of diseases.
- Understand different schedules, laws in India.

M. Sukanya.
COORDINATOR



BAPATLA COLLEGE OF PHARMACY

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(Affiliated to Jawaharlal Nehru Technological University, Kakinada)
Bapatla, Guntur (Dist), Andhra Pradesh-522101

DT:25-01-2020

CIRCULAR

This is hereby to inform all students III/IV B.Pharm that Department of Pharmaceutics is going to conduct a "TWO-WEEK ADD ON PROGRAM ON ADVANCES IN MANUFACTURING TECHNIQUES OF SOLID DOSAGE FORMS" BY Dr. T. VENKATESWAR RAO Professor, from 10-02-2020 to 25-02-2020. So hereby all the students are instructed to register on or before 05-02-2020 and utilize this Opportunity.

Venue: Classroom S09

Coordinator: G. Pavani Priya, Assistant Professor, Dept of Pharmaceutics.

T. Gopalabrusha
PRINCIPAL
PRINCIPAL
Bapatla College of Pharmacy
Bapatla 522 101

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<i>V. Sakun</i>	<i>K. T.</i>	<i>N. Subbarao</i>	<i>P. A.</i>	<i>K. T.</i>	<i>K. T.</i>	<i>K. T.</i>	<i>K. T.</i>
Pharmaceutics	Pharmaceutical Chemistry & Analysis	Pharmacology	Pharmacognosy				

BAPATLA COLLEGE OF PHARMACY (BCOP):

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ABOUT THE DEPARTMENT OF PHARMACEUTICS:

Department is one of the asset to our institution, having 4 ph.D and 7 M. Pharm qualified faculty to support the academic and multidisciplinary research activities. The department is equipped with Modern R&D equipment such as Rotary tablet machine, bilayered tablet machine, multimill, double cone blender, extruder spheronizer, Fluid bed coater, R&D coating pan and Brookfield viscometer are available in addition to the equipment recommended by the statutory agencies.

ABOUT THE ADD ON PROGRAM:

The course addresses the design principles of formulation techniques for solid dosage forms and current industrial manufacturing practices for dosage forms. Main parts are covered in the course are fundamentals of designing solid dosage forms. Manufacturing process (tablets and capsules). You should be able to select the correct dosage forms for a given drug and to design a manufacturing process for the selected dosage form upon successful completion of course.

Topics to be covered:

- Introduction of solid dosage forms.
- Different types of manufacturing techniques used in laboratory and industries.
- SOP's of equipment's used in manufacturing.

A TWO WEEK ADD ON PROGRAM ON " ADVANCED MANUFACTURING TECHNIQUES OF SOLID DOSAGE FORMS"

10 th to 25 th Feb 2020
DEPARTMENT OF PHARMACEUTICS



Bapatla College of pharmacy (Sponsored by Bapatla Education Society), (Approved by PCI and Affiliated to Jawaharlal Nehru Technological University, Kakinada) Bapatla , Guntur (Dist), Andhra Pradesh-522101

ADDRESS FOR COMMUNICATION

Mrs. G. Pavani Priya
Assistant professor
Department of pharmaceutics
Phone number: 96520 68625
Email ID: gpavanipriya86
@gmail.com

Last date for
registration 05-02-2020

Organising Committee:

Patron: Office Bearers of Bapatla Education
Society

Convenor :

Dr. T.E. GOPALA KRISHNA MURTHY
Principal

Organising Secretary:

Dr. V. SAI KISHORE, HOD
Department of pharmaceutics

Resource person:

Dr. T. Venkateswara Rao
Associate professor ,
Department of pharmaceutics

Co-ordinator:

Mrs. G. Pavani Priya (Assistant Professor,
(Department of Pharmaceutics)

Organising committee:

M. Sukanya
Assistant professor,
Department of pharmaceutics
Poonguzhali
Assistant Professor,
Department of pharmaceutics

Student coordinators:

1. G. Srikanth
2. G. Supriya

Registration form

1. Name:
2. Regd Number:
3. Year of study:
4. Organization:
5. Sex(Male/female)
6. Address for correspondence
7. Pin:
8. Phone:
9. Email:

Signature of participant

Signature of the head of the
institute (with official seal)



BAPATLA COLLEGE OF PHARMACY

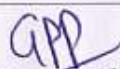
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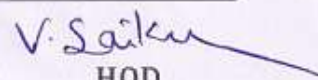
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Bapatla, Guntur (Dist), Andhra Pradesh-522101

Programme schedule for the two - weeks Certification course on "ADVANCES IN MANUFACTURING TECHNIQUES OF SOLID DOSAGE FORMS"

S. No	Date	Topic
1.	10 February 2020	Inauguration of the session with the welcome address by the co-ordinator G. Pavani Priya and key note address by Dr. V. Saikishore, Head of the Department of pharmaceuticals, followed by the lecture on Introduction to Advances in Manufacturing Techniques of Solid Dosage Forms.
2.	11 February 2020	Physical Properties of solids for Manufacturing of dosage forms.
3.	12 February 2020	Manufacturing process on Lab scale and Industrial scale.
4.	13 February 2020	Various Advanced granulation techniques for manufacturing of solid dosage forms.
5.	14 February 2020	Advantages of direct Compression techniques over granulation techniques for manufacturing of tablets.
6.	15 February 2020	Blending of granules by different types of blending for granules and powders.
7.	17 February 2020	Manufacturing of granules by mechanical modes.
8.	18 February 2020	Evaluation of granules and powders for tablets compression.
9.	19 February 2020	Process for tablet compression.
10.	20 February 2020	Review on tablet defects during manufacturing.
11.	21 February 2020	Process of filling of capsules and bottles for Powders.
12.	22 February 2020	Pharmaceutical Encapsulation techniques for capsules.
13.	24 February 2020	Technology transfer for safety of tablets and capsules manufacturing.
14.	25 February 2020	Influence of punch design on tablet.


Program Coordinator


HOD



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Bapatla, Guntur (Dist), Andhra Pradesh-522101

Dt: 25/01/2020

PROGRAM REPORT

Name of the Course: A two - weeks Certification course on "Advances in Manufacturing Techniques of Solid Dosage Forms"

Date and Duration: 10-02-2020 to 25-02-2020; 2 Weeks

Resource Person: Dr. T. Venkateswara Rao, Professor

Contact Details: 8106028256

Mail ID: tvrao250@gmail.com

Name of the Coordinator: G. Pavani Priya, Assistant Professor

Contact Details: 9652068625

Mail ID: g.pavanipriya86@gmail.com

Number of Students Attended: 44

Venue: Classroom 509

Bapatla College of Pharmacy, Bapatla organized the two-week certification course on "Advances in Manufacturing Techniques of Solid Dosage Forms".

The program was inaugurated by Dr.V.SaiKishore, Head of the Department of pharmaceuticals at Classroom 509. During this two-week session extensive deliberations on the Advances in Manufacturing Techniques of Solid Dosage Forms was discussed by the resource person Dr.T.Venkateswara Rao. In addition to that experimentations were also performed the students. On 25th February 2020 valedictory session was conducted and participation certificates were issued to the students. The session ended with the closing remarks of the Coordinator Mrs.G.Pavani Priya.

Objectives:

- The course addresses the design principles of formulation techniques for solid dosage forms and current industrial manufacturing practices for dosage forms.
- Main parts are covered in the course are fundamentals of designing solid dosage forms. Manufacturing process (tablets and capsules).
- You should be able to select the correct dosage forms for a given drug and to design a manufacturing process for the selected dosage form upon successful completion of course.

Topics to be covered:

- Introduction of solid dosage forms.
- Different types of manufacturing techniques used in laboratory and industries.
- SOPs of equipment's used in manufacturing.

Learning objectives:

- Discuss the fundamental principles for dosage form design, drug release and drug delivery.
- Apply the engineering principles for formulation of tablets and capsules. Formulate the dosage forms for a given API based on its properties.
- Manufacturing techniques: Direct compression, particle coating, dry and wet granules, agglomeration, pilot plant techniques.
- Demonstrate awareness of contemporary issues related to every processes.

GPP

COORDINATOR

T. Gopalakrishna
PRINCIPAL