



# 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: 2020-21

| S.No | Name of the Program                                                                    | Duration of Course       | No. of Participants |
|------|----------------------------------------------------------------------------------------|--------------------------|---------------------|
| 1    | A two week add on program on pharmacovigilance data assessment - signal detection      | 20-11-2020 to 05-12-2020 | 42                  |
| 2    | A two week add on program on NMR spectroscopy- theory instrumentation and applications | 20-11-2020 to 05-12-2020 | 49                  |
| 3    | A two week add on program on stability testing of pharmaceutical dosage forms          | 05-02-2021 to 20-02-2021 | 41                  |
| 4    | A two week add on program on molecular modelling for drug discovery                    | 05-02-2021 to 20-02-2021 | 54                  |
| 5    | A two week add on program on research design execution and publication                 | 15-03-2021 to 30-03-2021 | 16                  |
| 6    | A two week add on program on herbal medicine –clinical and research issues             | 29-03-2021 to 13-04-2021 | 98                  |

Dr. K. Rajyalakshmi  
IQAC



T. G. Balakrishna  
PRINCIPAL

PRINCIPAL  
Bapatla College of Pharmacy  
Bapatla 522 101



# 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: 5-11-2020

## CIRCULAR

This is hereby to inform all students of IV/IV B.Pharm -1<sup>st</sup> sem/7<sup>th</sup> sem that Department of Pharmacology is going to organize a "TWO-WEEK ADD ON PROGRAM ON" PHARMACOVIGILANCE DATA ASSESSMENT- SIGNAL DETECTION". Mrs. Neelam Begum, Assistant Professor from 20-11-2020 to 05-12-2020 .So here by all the students are instructed to register on or before 16-11-2020 and utilize this outstanding opportunity to apprentice by attending the classes.

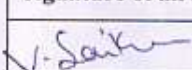
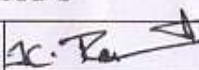
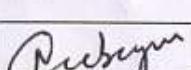
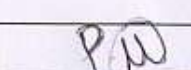
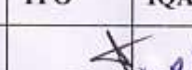
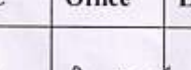
Venue: Classroom F02

Coordinator: B.Sudheer Chowdary, Assistant Professor, Dept of Pharmacology.

T. Gobalakrishna  
PRINCIPAL

Bapatla College of Pharmacy  
Bapatla 522 101

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|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |  |
| Pharmaceutics                                                                       | Ph. Chemistry &<br>Ph. Analysis                                                     | Pharmacology                                                                        | Pharmacognosy                                                                       |                                                                                      |                                                                                       |                                                                                       |                                                                                       |



## **BAPATLA COLLEGE OF PHARMACY (BCOP):**

Bapatla College of Pharmacy is one of the seven educational Institutions founded and run by Bapatla Education 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 located in 55 acres green campus with 50,000 sqft state of the art teaching and laboratory facilities. The college houses a FR&D Centre in collaboration with INNOVIND PHARMA Ltd, Vijayawada and CPCSEA Approved animal house facility.

## **DEPARTMENT OF PHARMACOLOGY:**

The department of pharmacology is one of the main stay of Bapatla College of Pharmacy, with its state-of-the-art equipments and experienced faculty who are engaged in multi disciplinary pharmaceutical research, it has been serving the needs of various departments which are involved in drug discovery and development. The Department provides quality preclinical and clinical education in pharmacology and therapeutics to B. Pharmacy and M. Pharmacy students. The CPCSEA approved animal house which is the first of its kind in colleges affiliated to JNTU-Kakinada with its eminent IAEC (Institutional Animal Ethics Committee) members have paved way for the smooth conductance of many research activities by the students and scholars of the college and various universities.

## **ABOUT THE ADD ON PROGRAM :**

This program is a step by step learning process designed to boost your prowess in assessing safety signals and establishing whether there is a causal relationship between the drug and the reported adverse drug reaction.

## **TOPICS TO BE COVERED :**

1. Introduction to signal detection.
2. Causality assessment of single case safety reports
3. Practical exercises in individual case causality assessment
4. Causality assessment of case series
5. single assessment

*A TWO WEEK ADD ON  
PROGRAM ON  
"PHARMACOVIGILANCE  
DATA ASSESSMENT - SIGNAL  
DETECTION".*

20 th Nov -05 th Dec 2020  
Organized by Department of  
Pharmacology



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



## ADDRESS FOR COMMUNICATION

B. Sudheer Chowdary

Assistant professor

Department of pharmacology

Phone number:9966425564

EmailID: sudheerchowdary18@gmail.com

Last date for registration  
16-11-2020

## ORGANIZING COMMITTEE:

Patron: Office Bearers of Bapatla  
Education Society

## CONVENOR:

Dr.T.E.Gopala Krishna Murthy  
Professor, Principal

## ORGANISING SECRETARY:

Dr.M.Satish kumar  
Associate professor  
(Department of Pharmacology)

## RESOURCE PERSON:

Mrs. Neelam Begum, Assistant Professor  
(Department of Pharmacology)

## CO-ORDINATOR:

B. Sudheer Chowdary-  
Assistant.Professor.  
(Department of Pharmacology)

## ORGANISING COMMITTEE:

Mr. B.Srinivas Rao, Assistant Professor  
Mrs. M. Annie, Assistant professor

## STUDENT COORDINATORS:

1. B. Pavani
2. M. Mani sai chowdary

## 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)





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(Affiliated to Jawaharlal Nehru Technological University, Kakinada

Bapatla, Guntur (Dist), Andhra Pradesh-522101

Department of Pharmacology:

Name of the program: A TWO-WEEK ADD ON PROGRAM ON  
"PHARMACOVIGILANCE DATA ASSESSMENT-SIGNAL DETECTION".

Program schedule:

| Sno | Date       | Topic                                                                       |
|-----|------------|-----------------------------------------------------------------------------|
| 1.  | 20-11-2020 | Introduction to signal detection: The basic concepts, rational & principles |
| 2.  | 21-11-2020 | Causality assessment of single case safety reports                          |
| 3.  | 23-11-2020 | Value of structured approaches in assessment of ICSR                        |
| 4.  | 24-11-2020 | Practical exercises in individual case causality assessment                 |
| 5   | 25-11-2020 | Assessment of several suspect drug –ADR combinations                        |
| 6   | 26-11-2020 | Causality assessment of a case series                                       |
| 7   | 27-11-2020 | Bradford Hill criteria                                                      |
| 8   | 28-11-2020 | Examples of causality assessment in a case series                           |
| 9   | 30-11-2020 | Signal assessment: process                                                  |
| 10  | 01-12-2020 | Signal assessment: Different approaches                                     |
| 11  | 02-12-2020 | Statistical reasoning and algorithms in signal detection-introduction       |
| 12  | 03-12-2020 | Disproportionality & How to compute it.                                     |
| 13  | 04-12-2020 | Measures of d Disproportionality: RRR, PRO, ROR.                            |
| 14  | 05-12-2020 | Open discussion on topic, valedictory note by co-coordinator.               |

Program Coordinator : B.Sudheer Chowdary,

Assistant Professor, Dept of Pharmacolgy.



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Bapatla, Guntur (Dist), Andhra Pradesh-522101

Dt.09-12-2020

## Program Report

**Name of the Program:** A two week add on program on "Pharmacovigilance data assessment-Signal detection"

**Date & Duration:** 20-11-2020 TO 05-12-2020; 2 WEEKS

**Resource person:** Mrs. Neelam Begum  
Assistant Professor  
Department of pharmacology  
Phone number: 9666810156  
Email ID: neelammpharm@gmail.com

**Program Coordinator:** B. Sudheer Chowdary  
Assistant Professor  
Department of pharmacology  
Phone number: 9966425564  
Email ID:sudheerchowdary18@gmail.com

**Number of students participated:** 42

**Venue:** Class room F02, Bapatla college of pharmacy

Bapatla college of pharmacy,,Bapatla has organised an add on program on "Pharmacovigilance data assessment-Signal detection." for B.pharm final year students by the resource person Mrs.Neelam Begum. In pharmacovigilance the expectation depends mainly on how far the patient safety is monitored& how far tthe data gathered on ADR is subjected to proper assessment. Hence this program was designed to train the students in correct assessment of reported ADR's. A total of 42 students participated in this add on program and after



completion of the program attendees were able to fulfill the desired objectives and the express the following learning outcomes.

**Objectives:**

- Basic concepts, the rational and principles of signal detection.
- Complexity in causality assessment in ICSRs & the significance of structured approaches.
- Performing Individual case causality assessment
- Elements to be considered when assessing causality in case series.
- Signal assessment process and how to perform a single signal assessment.
- Describe how statistical reasoning and algorithms may bring value in pharmacovigilance
- Explain the idea & computation of disproportionality.

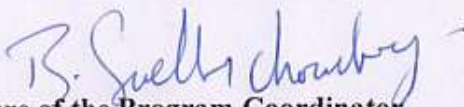
**Topics covered:**

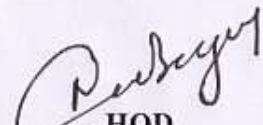
- ❖ Introduction to signal detection
- ❖ Causality assessment of single case safety reports
- ❖ Practical exercises In individual case causality assessment
- ❖ Causality assessment of case series
- ❖ Signal assessment

**Learning outcomes:**

- Explain the need& principles for signal detection in post –marketing surveillance
- Become familiar with the categories in the WHO-UMC system for reports with the strongest evidence
- Understand the criteria for the remaining WHO-UMC system categories and how the Naranjo Algorithm compares with the WHO-UMC system
- Apply the logic to specific reports typical of those submitted to national PV centres
- Examine a potential relationship between a suspected drug and an ADR according to the assessment criteria of the WHO-UMC method
- choose a WHO-UMC method category for an ICSR

- Be aware of the origin of the Bradford Hill criteria and understand the meaning of "strength of association" and "temporal relationship" in pharmacovigilance
- Compilation of the essential information on the adverse drug reaction to assess a potential signal
- outline at least two ways in which statistical reasoning and algorithms can bring value to pharmacovigilance

  
Signature of the Program Coordinator

  
HOD





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Bapatla, Guntur (Dist), Andhra Pradesh -522101

Dt: 05-11-2020

## CIRCULAR

This is hereby to inform all students of IV/IV B.Pharm -1<sup>st</sup> sem/7<sup>th</sup> sem that Department of Pharmaceutical Chemistry & Analysis is going to conduct a "TWO-WEEK ADD ON PROGRAM ON NMR SPECTROSCOPY: THEORY, INSTRUMENTATION AND APPLICATIONS" by Dr. V. Janardhanan, Associate Professor from 20-11-2020 to 05-12-2020. So here by all the students are instructed to register on or before 16-11-2020 and utilize this golden opportunity to abreast knowledge by attending the classes.

Venue: Classroom F13

Coordinator: Y. Sushma, Assistant Professor, Dept of Pharmaceutical Chemistry & Analysis.

*T. Gopalakrishna*  
PRINCIPAL

PRINCIPAL  
Bapatla College of Pharmacy  
Bapatla 522 101

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|-----------------------------------|-----------------------------------------------|------------------------------------|-------------------------------|-----------------|--------------|--------------|--------------------|
| <i>V. Saitan</i><br>Pharmaceutics | <i>J. K. R.</i><br>Ph.Chemistry<br>& Analysis | <i>P. Subbarao</i><br>Pharmacology | <i>P. M.</i><br>Pharmacognosy | <i>J. K. R.</i> | <i>P. M.</i> | <i>K. M.</i> | <i>K. S. Swamy</i> |



## 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 COLLEGE :

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## ABOUT ADD-ON PROGRAM:

This value add on course is designed to train the participants on the basics of NMR Spectroscopy and to provide them an understanding and analyzing the 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 NMR hyphenated techniques 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 objects to achieve the objectives.

- Basic theory, principles of NMR Spectroscopy
- Influence of magnetic field on proton spin.
- Types of NMR.
- Proton NMR, <sup>13</sup>C NMR etc.
- How NMR works
- Flow chart of instrumentation
- Applications
- Interpretation of NMR Spectrum.

A TWO WEEK ADD ON PROGRAM ON  
"NMR SPECTROSCOPY: THEORY  
INSTRUMENTATION & APPLICATION"

PROGRAM DURATION  
20-11-2020 TO 05-12-2020

DEPARTMENT OF  
PHARMACEUTICAL CHEMISTRY &  
ANALYSIS



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University, Kakinada)



## CHIEF PATRON

M.Srinivas rao  
President of Bapatla Education Society

## CONVENOR

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

## ORGANISING SECRETARY

I.Krishnanjaneyulu  
Assistant Professor  
Dept.of Pharmaceutical Chemistry & Analysis

## RESOURCE PERSON

Dr.V.Janardhan  
Associate professor  
Dept. of Pharmaceutical Chemistry & Analysis

## PROGRAM COORDINATOR

Y.Sushma  
Assistant Professor

## ORGANISING COMMITTEE

K.Poorna Chandra rao -Assistant Professor  
S.Shobha -Assistant Professor

## STUDENT COORDINATORS

V.Nagalakshmi IV B.Pharmacy  
G.Bhargav IV B.Pharmacy

## ADDRESS FOR COMMUNICATION

Y.Sushma  
Assistant Professor  
Dept of Ph.Chemistry &  
Analysis  
Contact No:7013950117  
E-mail Id:  
sushma4venu@gmail.com

Last date for  
registration on or  
before  
16-11-2020

## REGISTRATION 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)





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Bapatla, Guntur (Dist), Andhra Pradesh -522101

## Department of Pharmaceutical Chemistry & Analysis

**Name of the Program: A TWO-WEEK ADD ON PROGRAM ON NMR SPECTROSCOPY: THEORY, INSTRUMENTATION AND APPLICATIONS**

### PROGRAM SCHEDULE

| S.No | Date       | Topic                                                         |
|------|------------|---------------------------------------------------------------|
| 1.   | 20-11-2020 | Introduction and basic principles of NMR                      |
| 2.   | 21-11-2020 | Concept of shielding and de-shielding and chemical shifts     |
| 3.   | 23-11-2020 | Explanation about spin-spin coupling and splitting of signals |
| 4.   | 24-11-2020 | Importance of calculating coupling constant and integrals     |
| 5    | 25-11-2020 | Types of NMR technique: Proton NMR                            |
| 6    | 26-11-2020 | About $^{13}\text{C}$ -NMR                                    |
| 7    | 27-11-2020 | Importance of FTNMR                                           |
| 8    | 28-11-2020 | Instrumentation of NMR                                        |
| 9    | 30-11-2020 | Working of NMR                                                |
| 10   | 01-12-2020 | Solvents used in NMR and Sample preparation                   |
| 11   | 02-12-2020 | Applications                                                  |
| 12   | 03-12-2020 | Interpretation of spectra by following strategical steps      |
| 13   | 04-12-2020 | Practice of obtaining information from NMR spectra            |
| 14   | 05-12-2020 | Practice on Structural characterization from spectra          |

*Sushma*  
Coordinator  
Y. Sushma

*K. Ranjith*  
HOD  
K. Ranjith





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

**Dt: 8-12-2020**

## PROGRAM REPORT

**Name of the Program:** A Two-week Add on program on NMR spectroscopy: Theory, instrumentation and applications.

**Date & Duration:** 20-11-2020 to 05-12-2020; 2 WEEKS

**Resource person:** Dr. V. Janardhanan  
Associate Professor  
Department of Pharmaceutical Chemistry & Analysis  
Phone number: 9362788046  
Email ID: vsreejana@gmail.com

**Program Coordinator:** Y. Sushma  
Assistant Professor  
Department of Pharmaceutical Chemistry & Analysis  
Phone number: 7013950117  
Email ID: sushma4venu@gmail.com

**Number of students participated:** 49

**Venue:** Final year class room, Bapatla College of pharmacy

Bapatla college of pharmacy, Bapatla has organised an add on program on "NMR spectroscopy: Theory, Instrumentation and applications" for B.pharm final year students by the resource person DR. V. Sree Janardhanan. The NMR spectroscopy is an advanced characterization technique used to determine the molecular structure at the atomic level of the sample and nmr spectra provides a detailed information about the number and location of hydrogen atoms in a molecule. Totally 49 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 know the basic principle of NMR Spectroscopy
- To aware of some important terms like chemical shifts, coupling constant etc
- To explain how NMR works
- To Illustrate the applications
- To Interpret the data for structural characterization

**Topics to be covered:**

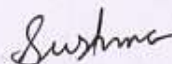
- Fundamental Principles of NMR spectroscopy
- Instrumentation
- Types of NMR techniques
- Applications
- Spectral data interpretation

**Learning outcomes:** By the completion of the program the student come to know about

- Principle of NMR spectroscopy: how nuclear spins are affected by a magnetic field
- Some relative terms like chemical shift, coupling constant, signal splitting etc
- Working of NMR spectrometer
- Different techniques of NMR
- Interpretation of spectra
- No of different types of protons from no of signals
- Types of environments of neighboring protons from Splitting of peaks
- Chemical shift: a diagnostic feature for molecular structure determination
- Integration of peaks
- Calculating coupling constant

**Outcome of the program:**

The Bapatla College of Pharmacy, BAPATLA, arranged a highly successful add-on program. The importance of NMR spectroscopy, thoroughly taught to the students. Totally 49 students have participated in the program. The student will able to take and interpret the NMR spectrum confidently.



**Signature of the Program Coordinator**



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Bapatla, Bapatla (Dist), Andhra Pradesh -522101

Date: 20-1-2021

## CIRCULAR

This is hereby to inform all students of III/IV B.Pharm -2<sup>nd</sup> sem /6<sup>th</sup> sem that Department of Pharmaceutics is going to conduct a "TWO-WEEK ADD ON PROGRAM ON STABILITY TESTING OF PHARMACEUTICAL DOSAGE FORMS" by Dr. K.Rajyalakshmi, Associate Professor, from 05-02-2021 to 20-02-2021. So here by all the students are instructed to register on or before 01-02-2021 and utilize this golden opportunity to abreast knowledge by attending the classes.

Venue: S09, Bapatla college of pharmacy

Co-ordinator: Mrs.M.Sukanya Assistant Professor, Dept of Pharmaceutics

*T. Gopalakrishna*

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Bapatla College of Pharmacy  
Bapatla 522 101

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| <i>V. Satya</i>        | <i>K. R.</i>               | <i>Rajyalakshmi</i> | <i>V. G.</i> | <i>K. R.</i> | <i>ICR</i> | <i>S. Ven</i> | <i>R. S.</i> |
| Pharmaceutics          | Ph.Chemistry<br>& Analysis | Ph.cology           | Ph.cognosy   |              |            |               |              |



## **BAPATLA COLLEGE OF PHARMACY (BCOP):**

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### **ABOUT THE ADD ON PROGRAM:**

The aim of this program is to improve the awareness of students on importance of stability testing of pharmaceutical dosage forms. The purpose of stability testing is to provide evidence on how the quality of a drug substance or drug product varies with time under the influence of a variety of environmental factors such as temperature, humidity and light and to re-establish a re-test period for the drug substance or a shelf life for the drug.

### **TOPICS COVERED:**

- Objectives of stability testing
- Role of stability in pharmaceutical product development.
- Stability testing of solid dosage forms
- Stability testing of liquid dosage forms.
- Accelerated stability studies
- Hands on experiment on AST
- Determination of shelf life of product
- Storage conditions.

### **A TWO WEEK ADD ON PROGRAM ON**

**"STABILITY TESTING OF PHARMACEUTICAL DOSAGE FORMS."**

**05-02-2021 TO 20-02-2021**

**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  
01-02-2021

## CHIEF PATRON:

M. Srinivasa Rao – President of Bapatla Education Society

## CONVENOR:

CH.Venubabu – Assistant Professor  
Department of Pharmaceutics

## ORGANISING SECRETARY:

Mrs.G.Pavani Priya Assistant professor  
Department of Pharmaceutics

## RESOURCE PERSON:

Dr.K.Rajya lakshmi  
Associate professor  
Department of Pharmaceutics

## PROGRAM CO-ORDINATOR:

Mrs.M.Sukanya – Assistant Professor

## ORGANISING COMMITTEE:

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

## STUDENT COORDINATORS:

Ms.S.Anusha – III Year B.Pharmacy  
Mr.Manideep – III Year B.Pharmacy





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Bapatla, Bapatla (Dist), Andhra Pradesh -522101

## Department of Pharmaceutics:

Name of the programme: "TWO-WEEK ADD ON PROGRAM ON STABILITY TESTING OF PHARMACEUTICAL DOSAGE FORMS"

## Programme schedule:

| S.no | Date       | Topic                                                                   |
|------|------------|-------------------------------------------------------------------------|
| 01   | 05-02-2021 | Stability testing -introduction                                         |
| 02   | 06-02-2021 | Stability testing -importance                                           |
| 03   | 08-02-2021 | ICH guide lines for stability testing.                                  |
| 04   | 09-02-2021 | Stability testing advantages ,disadvantages & applications.             |
| 05   | 10-02-2021 | Stability testing of tablets                                            |
| 06   | 11-02-2021 | Stability testing of capsules                                           |
| 07   | 12-02-2021 | Protocol for stability testing of solid dosage forms                    |
| 08   | 13-02-2021 | Explanation along with examples.                                        |
| 09   | 15-02-2021 | Stability testing of liquids.                                           |
| 10   | 16-02-2021 | Accelerated stability studies                                           |
| 11   | 17-02-2021 | Experiment on accelerated stability testing using aspirin as model drug |
| 12   | 18-02-2021 | Arrhenius equation and its related data calculation.                    |
| 13   | 19-02-2021 | calculation of shelf life and fixing of storage conditions              |
| 14   | 20-02-2021 | Open discussion and valedictory session                                 |

*M. Sukanya*  
Coordinator

M.Sukanya

*V. Sathish*  
HOD

Dr. V. Sai Kishore





# **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

**Dt.22-2-2021.**

## **Program Report**

**Name of the Program:** "TWO-WEEK ADD ON PROGRAM ON STABILITY TESTING OF PHARMACEUTICAL DOSAGE FORMS"

**Date & Duration:** 05-02-2021 to 20-02-2021 & Two weeks.

**Resource person:**

Dr. K.Rajyalakshmi

Associate Professor

Department of pharmaceutics

Phone number: 9985081813

Email : rajimanohar3529@gmail.com

**Program Coordinator:**

M.Sukanya

Assistant Professor

Department of pharmaceutics

Phone number:9550225353

Email ID: sukanyamanam@gmail.com

**Number of students participated:** 41

**Venue:** S09 class room, Bapatla College of pharmacy

Bapatla college of pharmacy, Bapatla has organised "TWO-WEEK ADD ON PROGRAM ON STABILITY TESTING OF PHARMACEUTICAL DOSAGE FORMS" for III.B. Pharm students. The session was inaugurated by Dr. V. Sai Kishore HOD, Department of Pharmaceutics at 10 AM on 5-2-2021 and the need of the program was highlighted by the Coordinator M.sukanya. Theoretical and practical sessions were conducted during this session by the resource person Dr.K.Rajyalakshmi.



**Objectives:**

- Importance of stability testing
- ICH guide lines for stability testing.
- Fixing of shelf life of the product.
- Stability testing protocols.

**Topics to be covered:**

- Objectives of stability testing
- Stability testing of solids
- Stability testing of liquid orals
- Accelerated stability testing-experiment and theory
- Calculation of shelf life of product.

**The outcomes of the program:**

After completion of the program the students acquired knowledge on

- ICH guidelines
- Different climatic zones .
- Stability testing procedures
- Storage conditions.
- Shelf life prediction.

The Bapatla College of Pharmacy, BAPATLA, arranged a highly successful two-week add on program on stability testing of pharmaceutical dosage forms. The valedictory function was conducted on 20-2-2021 at 4:30 PM. The participants received their certificates from the HOD and Mrs.M.Sukanya expressed vote of thanks.

*M. Sukanya.*  
Signature of the Program Coordinator



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Bapatla, Guntur (Dist), Andhra Pradesh -522101

Date: 20-01-2021

## CIRCULAR

This is hereby to inform all students of III/IV B.Pharm -2<sup>nd</sup> sem /6<sup>th</sup> sem that Department of Pharmaceutical chemistry is going to conduct a "TWO-WEEK ADD ON PROGRAM ON AN OVERVIEW OF MOLECULAR MODELING FOR DRUG DISCOVERY" by Mr. K.Ranjith, Associate Professor, from 05-02-2021 to 20-02-2021. So here by all the students are instructed to register on or before 01-02-2021 and utilize this golden opportunity to abreast knowledge by attending the classes.

Venue: S08, Bapatla college of pharmacy

Coordinator: Mr. K. Poornachandra Rao, Assistant Professor, Dept of Pharmaceutical Chemistry & Analysis

*T. Gobalabhashini*  
PRINCIPAL  
PRINCIPAL  
Bapatla College of Pharmacy  
Bapatla 522 101

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| Signature of all HOD'S |                                 |              |               | TPO           | IQAC         | Office        | Library           |
|------------------------|---------------------------------|--------------|---------------|---------------|--------------|---------------|-------------------|
| <i>V. Saitan</i>       | <i>K. Rao</i>                   | <i>Rubey</i> | <i>P. W.</i>  | <i>E. Rao</i> | <i>K. P.</i> | <i>L. Ven</i> | <i>K. Srinani</i> |
| Pharmaceutics          | Ph. Chemistry &<br>Ph. 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 located in 55 acres green campus with 50,000 sq ft state of the art teaching and laboratory facilities. The college houses a FR&D centre in collaboration with INNOVIND PHARMA Ltd, Vijayawada and CPCSEA approved animal house facility.

### ABOUT THE ADD-ON PROGRAM:

This value add on course is designed to train the participants on the basic concept of Molecular modeling for drug discovery. Molecular modeling describes the generation, manipulation (or) representation of three dimensional structures of molecules and associated physico-chemical properties. They enable participants to understand the structure and behavior of molecule, predict their interactions. 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

- Introduction of molecular modeling
- What is the role of target identification
- What is a lead in drug discovery
- Pharmacophore modeling and docking techniques

**A TWO WEEK ADD ON  
PROGRAM ON  
"AN OVERVIEW OF  
MOLECULAR MODELLING  
FOR DRUG DISCOVERY"**

**5-2-2021 to 20-2-2021  
DEPARTMENT OF  
PHARMACEUTICS**



### Bapatla College of Pharmacy

(sponsored by Bapatla Education Society). (Approved by PCI and Affiliated to Jawaharlal Nehru Technological University, Kakinada) Bapatla, Bapatla (Dist), Andhra Pradesh - 522101

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## ABOUT THE DEPARTMENT:

The Department of Pharmaceutical chemistry & Analysis is well known for its excellence in teaching and research.

The faculty members of the department come from high degree profile by well known universities. The faculty members of the department are engaged in state of the art research.

The department has made great strides by revising and updating pharmacy syllabus time and again. Chemistry at its most fundamental level, creating sustainable energy, improving the environment, detecting and curing the disease and development material with new properties.

## ADDRESS FOR COMMUNICATION

Dr.K.RAJYALAKSHMI  
Associate Professor  
Department of Pharmaceutics  
Phone number: 9985081813  
EmailID:rajimanahor3529@gmail.com

Last date for registration  
01.02.2021

## REGISTRATION FORM

1. Name
2. Regd number
3. Year of Study
4. Organization
5. Sex
6. Address of correspondence
7. Pin
8. Phone
9. Email

Signature of the participant

## 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

Mr K. Poorna Chandra rao  
Assistant Professor  
Department of Pharmaceutical Chemistry

## RESOURCE PERSON

Mr. K. Ranjith—Associate Professor  
Department of Pharmaceutical Analysis

## PROGRAM COORDINATOR

Mr. Poorna Chandrarao – Assistant Professor

## ORGANISING COMMITTEE

Ms. S. Shoba – Assistant Professor  
Department of Pharmaceutical chemistry  
Mr I. Krishnanjaneyulu - Assistant Professor  
Department of Pharmaceutical chemistry

## STUDENT COORDINATORS

Mr. K. Sai krishna– III Year B.Pharmacy  
Ms. A. Anu swetha – III Year B.Pharmacy





# BAPATLA COLLEGE OF PHARMACY

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Bapatla, Guntur (Dist), Andhra Pradesh -522101

**Department of Pharmaceutical Chemistry & Analysis**

**Name of the Program: A TWO-WEEK ADD ON PROGRAM ON AN OVERVIEW OF  
MOLECULAR MODELING FOR DRUG DISCOVERY**

## PROGRAM SCHEDULE

| Sno | Date       | Topic                                                |
|-----|------------|------------------------------------------------------|
| 01  | 05-02-2021 | Molecular modeling Introduction                      |
| 02  | 06-02-2021 | Types of molecular modeling                          |
| 03  | 08-02-2021 | Physical and chemical properties                     |
| 04  | 09-02-2021 | Quantative structure activity relationships modeling |
| 05  | 10-02-2021 | Target and lead identification                       |
| 06  | 11-02-2021 | Structure/ligand based design                        |
| 07  | 12-02-2021 | Target based drug design                             |
| 08  | 13-02-2021 | Computer aided drug design                           |
| 09  | 15-02-2021 | Computer aided drug design                           |
| 10  | 16-02-2021 | Pharmacophore modeling                               |
| 11  | 17-02-2021 | Pharmacophore modeling                               |
| 12  | 18-02-2021 | Drug solubility and permeability                     |
| 13  | 19-02-2021 | Drug discovery issues                                |
| 14  | 20-02-2021 | Open discussion and valedictory session              |

*Poorna*  
**Co-ordinator**

K. Poorna Chandra Rao

*K. Ranjith*

**HOD**

K. Ranjith



# BAPATLA COLLEGE OF PHARMACY

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(Affiliated to Jawaharlal Nehru Technological University, Kakinada)

Bapatla, Guntur (Dist), Andhra Pradesh -522101

**Dt: 23-02-2023**

## PROGRAM REPORT

**Name of the Program: A TWO-WEEK ADD ON PROGRAM ON AN OVERVIEW OF MOLECULAR MODELING FOR DRUG DISCOVERY**

**Date and Duration: 05-02-2020 to 20-02-2020; 2 WEEKS**

**Resource Person: Mr. K. Ranjith**

Associate Professor

Department of Pharmaceutical Chemistry & Analysis

Phone number: 9491668829

Email ID: ranjith.kapu@gmail.com

**Program Co-Ordinator: K. Poornachandrarao**

Assistant Professor

Department of Pharmaceutical Chemistry & Analysis

Phone number: 9885071976

Email ID: poorna7575@gmail.com

**Number of students participated: 54**

**Venue: S08, Bapatla College of pharmacy**

Bapatla College of pharmacy. Bapatla has organized an add on program on "An overview of molecular modeling for drug discovery" for B.pharm third year students by the resource person Mr. K. Ranjith. Molecular modeling provide powerful tools for building, visualizing, analyzing and storing models of complex molecular systems that can help interpret structure-activity relationships. Totally 54 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 aid the understanding of the fundamental concepts of structure-activity relationships, and to elucidate the mechanism of action of drugs.
- To know the structure and behaviour of molecules.
- The main objective of molecular modeling is to investigate the structure, dynamics, surface properties and thermodynamics of inorganic, biological and polymeric systems.



**Topics to be covered:**

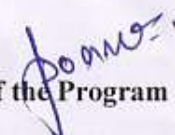
- Introduction of molecular modeling
- What is a lead in drug discovery
- Pharmacophore modeling and docking techniques

**Learning outcomes: After successful completion of the course the students are able to**

- To know the structure and behaviour of molecules.
- The types of molecular models.
- Molecular properties of a drug include chemical, physical and structural properties of molecules.

**Outcome of the Program:**

The Bapatla College of Pharmacy, BAPATLA, arranged a highly successful add-on program. They enable students to understand the structure and behaviour of molecules, predict their interactions, and how to design new drugs with enhanced efficacy and safety. Totally 54 students have participated in the program. The Student will be able to understand the type of the reaction in the given named reaction.

  
Signature of the Program Coordinator



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Bapatla, Guntur (Dist), Andhra Pradesh-522101

Dt: 1/3/2021

## CIRCULAR

All the I / II M.Pharmacy Students are here by informed that the Department of Pharmaceutics is organizing "A two - week add on program on Research-design execution and publication" by Dr.K.Rajyalakshmi from 15<sup>th</sup> - 30<sup>th</sup> March 2021. So the interested students can register their names on or before March 10<sup>th</sup> and utilise this opportunity.

Venue: Class room S05.

Coordinator: Mrs.M.Sukanya, Assistant Professor, Dept. of Pharmaceutics

*T. Balakrishna*

Principal

PRINCIPAL

Bapatla College of Pharmacy  
Bapatla 522 101

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|------------------------|-------------------------------------|------------------------|---------------|----------------------|----------------------|----------------------|----------------------|
| <i>V. Satish</i>       | <i>K. R. Lakshmi</i>                | <i>P. Rajyalakshmi</i> | <i>P. U.</i>  | <i>K. R. Lakshmi</i> | <i>K. R. Lakshmi</i> | <i>K. R. Lakshmi</i> | <i>K. R. Lakshmi</i> |
| Pharmaceutics          | Pharmaceutical Chemistry & Analysis | Pharmacology           | Pharmacognosy |                      |                      |                      |                      |



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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:**

Research design is the plan used to conduct a research study. It involves outlining the overall approach and methods that will be used to collect and analyse data in order to answer research questions or test hypothesis. This add on program has designed for M. Pharm students as they have to submit their dissertation in second year. This add on program guide them to select an appropriate research plan, its execution & publication.

## **TOPICS TO BE COVERED:**

- Research design:  
Introduction, design elements
- Characteristics of research design
- Literature search
- Research discovery
- Academic writing
- Research paper

**A TWO WEEK ADD ON PROGRAM ON " RESEARCH DESIGN EXECUTION AND PUBLICATION"**

**15 th to 30 th March 2021  
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. M. SUKANYA**  
Assistant professor  
Department of pharmaceutics  
Phone number: 9550225353  
EmailID:sukanyamanam87  
@gmail.com

Last date for  
registration 10-03-2021

**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. K. RAJYA LAKSHMI  
Associate professor , Department of  
pharmaceutics

**Co-ordinator:**  
Mrs. Sukanya (Assistant Professor,  
(Department of Pharmaceutics)

**Organising committee:**  
G. Pavani Priya  
Assistant professor, Department of  
pharmaceutics  
Poonguzhali  
Assistant Professor, Department of  
pharmaceutics

**Student coordinators:**  
1. K. Chakradhar  
2. K. Sowmya

## 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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Bapatla, Guntur (Dist), Andhra Pradesh-522101

**Name of the programme: A two – week add on program on Research- design execution and publication”.**

## **Programme schedule:**

| Sno | Date      | Topic                                                          |
|-----|-----------|----------------------------------------------------------------|
| 1.  | 15-3-2021 | Introduction to research                                       |
| 2.  | 16-3-2021 | Selection of good research topic                               |
| 3.  | 17-3-2021 | Literature review                                              |
| 4.  | 18-3-2021 | Framing of objectives                                          |
| 5   | 19-3-2021 | Research designs                                               |
| 6   | 20-3-2021 | Research planning                                              |
| 7   | 22-3-2021 | Execution of research                                          |
| 8   | 23-3-2021 | Thesis writing                                                 |
| 9   | 24-3-2021 | Research experimental designs                                  |
| 10  | 25-3-2021 | Framing of results                                             |
| 11  | 26-3-2021 | Converting Results in to discussions                           |
| 12  | 27-3-2021 | Outline of article writing                                     |
| 13  | 29-3-2021 | Description about web of science ,scopus ,sci indexed journals |
| 14  | 30-3-2021 | Open discussion, ending notes by program coordinator.          |

*M. Sukanya*  
Coordinator  
Mrs.M.Sukanya

*V. Saikrishna*  
HOD  
Dr. V. sai kishore



# BAPATLA COLLEGE OF PHARMACY

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(Affiliated to Jawaharlal Nehru Technological University, Kakinada)

Bapatla, Guntur (Dist), Andhra Pradesh-522101

Dt: 5/4/2021

## PROGRAM REPORT

Name of the Course: A two – week add on program on Research- design execution and publication

Date: 15-3-2021 to 30-3-2021

Resource Person: Dr.K.Rajyalakshmi, Associate Professor

Contact Details: 9985081813

Mail ID: rajimanohar3529@gmail.com

Name of the Coordinator: Mrs.M.Sukanya, Assistant Professor

Contact Details: 9550225353

Mail ID: sukanyamanam87@gmail.com

Number of Students Attended: 16

Venue: classroom S05, Second Floor

Bapatla College of Pharmacy, Bapatla organized A two – week add on program on Research- design execution and publication for M.pharm I year students by the resource person Dr.K.Rajyalakshmi, Associate professor.

The topic focus on selection of research, various topics of research, literature survey, design of research work. The documentation of research and publication of research was also covered. The sessions were well organised by the resource person and after completion of course the student have gained enough knowledge on various research design and execution. 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:**

- Research design
- Objectives of research work.
- Characteristics of research work.
- Academic writing
- Research paper publication.

**Learning Outcomes:**

After completion of this course the students are able to:

- Have knowledge on basic components of good research.
- Framing of research objectives
- Research discovery.
- Submission of research papers and their writing.

**Outcome of the program:**

The Bapatla College of Pharmacy, Bapatla, arranged a highly successful add-on program. M.Pharmacy students have to submit their dissertation works in their second year course. By this add on program the students gained the concepts of good research selection, framing of objectives and execution. The students gained enough knowledge how to write literature and research papers. Totally 16 students have participated in the program.

*M. Sukanya*  
Signature of Program co-ordinator



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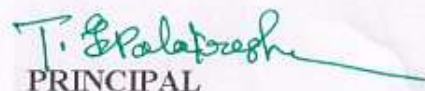
Date: 15-03-21

## CIRCULAR

All the II / IV B.Pharmacy Students are here by informed that the Department of Pharmacognosy is organizing a two week Certification course on "Herbal Medicine – Clinical & Research issues" from 29-03-21 – 13-04-21. So the interested students can register their names at the respective department on or before 26-03-21 and utilise this opportunity.

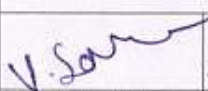
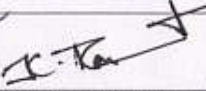
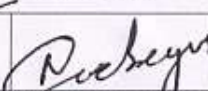
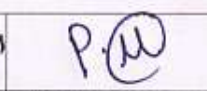
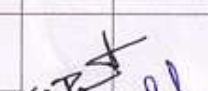
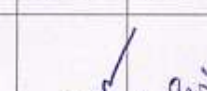
Venue: Seminar Hall (S06)

Coordinator: Mrs. Neelam Begum, Associate Professor

  
PRINCIPAL

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Bapatla College of Pharmacy  
Bapatla 522 101

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



## About the Course

This course is aimed to improve the knowledge of students on significance of herbal medicine. The current status of clinical and research issues of herbal medicine, safety and toxicological evaluation of herbal medicine is also discussed. The evaluation of biomarkers, analytical techniques for herbal research, role of chromatography will be discussed.



**Mrs Shiny Ganji**  
Associate Professor  
Department of Pharmacognosy  
St. Ann's College of  
Pharmacy, Chirala



**Dr. TEGK Murthy**  
PRINCIPAL

## 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:**  
**26/3/21**



## BAPATLA COLLEGE OF PHARMACY

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JNTUK, Kakinada  
BAPATLA

## A TWO WEEK CERTIFICATION COURSE ON



## HERBAL MEDICINE - CLINICAL AND RESEARCH ISSUES

**29/3/21 - 13/4/21**



## 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. Neelam Begum**

Associate Professor  
Department of Pharmacology

### Organising secretary

**Mrs. Sukanya**

Assistant Professor  
Department of Pharmaceutics

### Organising Committee

**Mrs. Pavani Priya**

Assistant Professor  
Department of Pharmaceutics

**Mr. B. Sudheer Chowdary**

Assistant Professor  
Department of Pharmacology

### Resource Person

**Shiny Ganji**

Associate Professor  
St. Ann's College of Pharmacy, Chirala

### Student Coordinators

**Ms. A. Sai Puja**

III Year B.Pharmacy

**Mr. B. Lokesh Babu**

III Year B.Pharmacy

**Contact:** 9182613089

8106723608

### KEY HIGHLIGHTS

- Herbal medicine and various systems of medicine
- Clinical data, safety and toxicology
- Biomarker evaluation
- Chromatography in quantitation of herbals
- Barriers to herbal research
- Analytical techniques in herbal research







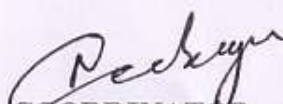
# BAPATLA COLLEGE OF PHARMACY

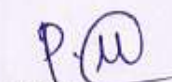
(Sponsored by Bapatla Education Society), (Recognized by A.I.C.T.E&PCD)  
(Affiliated to Jawaharlal Nehru Technological University, Kakinada)  
Bapatla, Guntur (Dist), Andhra Pradesh -522101

## PROGRAM SCHEDULE

**Name of the Program:** A two - weeks Certification course on "Herbal Medicine – Clinical Research Issues"

| S.No | Day      | Schedule                                                                                                                                               |
|------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.   | 29-03-21 | Inauguration of session with introductory speech by Dr. TEGK Murthy, Principal followed by lecture by Mrs. G. Shiny on introduction to Herbal Medicine |
| 2.   | 30-03-21 | Status of Traditional system of Medicine                                                                                                               |
| 3.   | 31-03-21 | European traditional herbalism                                                                                                                         |
| 4.   | 01-04-21 | Efficacy and effectiveness of traditional herbal remedy                                                                                                |
| 5.   | 02-04-21 | Ethical considerations in clinical research on herbal medicine                                                                                         |
| 6.   | 03-04-21 | Safety and toxicological evaluation                                                                                                                    |
| 7.   | 05-04-21 | Herb-herb and Herb-drug interactions                                                                                                                   |
| 8.   | 06-04-21 | Herb drug patenting in India                                                                                                                           |
| 9.   | 07-04-21 | Chromatography in herbal drug quantification                                                                                                           |
| 10.  | 08-04-21 | Prescription drug, OTC drugs, Supplements and herbal products                                                                                          |
| 11.  | 09-04-21 | New perspectives on how to discover drugs from herbal medicine                                                                                         |
| 12.  | 10-04-21 | Biomarker innovations                                                                                                                                  |
| 13.  | 12-04-21 | Analytical techniques in herbal research                                                                                                               |
| 14.  | 13-04-21 | Barriers to herbal medicine research                                                                                                                   |

  
COORDINATOR

  
HOD





# BAPATLA COLLEGE OF PHARMACY

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Bapatla, Guntur (Dist), Andhra Pradesh -522101

Date: 15/4/21

## PROGRAM REPORT

|                                 |                                                                                           |
|---------------------------------|-------------------------------------------------------------------------------------------|
| Name of the Course              | A two - weeks Certification course on "Herbal<br>Medicine – Clinical and Research issues" |
| Date                            | 29/3/21 – 13/4/21                                                                         |
| Resource Person                 | Mrs. G. Shiny<br>Associate Professor<br>St. Ann's College of Pharmacy<br>9030798470       |
| Name of the Program Coordinator | Mrs. Neelam Begum,<br>Associate Professor                                                 |
| Contact Details                 | 9666810156                                                                                |
| Mail ID                         | neelammpharm@gmail.com                                                                    |
| Number of Students Attended     | 98                                                                                        |
| Venue                           | Seminar Hall, Second Floor(S06)                                                           |

Department of Pharmacognosy, Bapatla College of Pharmacy, Bapatla organized a two-week certification course on "Herbal Medicine – Clinical and Research Issues".

The program was inaugurated by Dr. TEGK Murthy, Principal, on 29 March 2021 at Seminar Hall. During this two week session extensive deliberations on Clinical and research issues of Herbal medicine were discussed. The session ended with the closing remarks of the Coordinator Mrs. P. Madhu latha.

### Objectives:

The ultimate goal of this course is

- To make student gain knowledge on to conduct clinical research to prove effectiveness and safety of herbal medicine based on scientific evidence according to the required standards.

- To contribute to the discovery and authentication of herbal products with aim of enhancing value and improving penetration of international markets.
- To understand the safety, efficacy and effectiveness of herbal products.

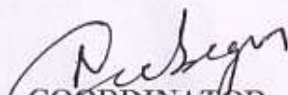
**Learning Outcomes:**

After completion of this course the students are able to:

- Understand the safety, efficacy and effectiveness of herbal drugs
- Gain knowledge of different systems of herbal medicine.
- Understand the different ethical considerations and safety and toxicological evaluation of herbal drugs.
- Understand about the biomarkers and patent filing of herbal drugs.

**Overall summary:**

The Department of Pharmacognosy has organised a two week certification program on Herbal medicine – Clinical and Research issues. The research issues, clinical trial data and biomarker and quantitative evaluation of herbal medicine was discussed in the course. About 98 students from II B.Pharm has attended the course and achieved their certificates. This add on course helps them to gain more knowledge about herbal medicine that will be helpful their career development.

  
COORDINATOR