



BALAJI INSTITUTE OF PHARMACEUTICAL SCIENCES

(Approved by AICTE & PCI, Under Section 12, New Delhi and Affiliated to Kakathiya University, Wpl.)

Laknepally (V) Narsampet (M) Warangal Rural (Dist) Telangana State 506331

Contact : +91 9866050044 (Office), +91 986652412 (Principal), +91 8718-230521 (Fax)

Date: 12-09-2022

CIRCULAR

It is to inform to all the students of B. Pharmacy and Pharm D all years that, a certificate program on **“IPR, Patent drafting, filling and Processing”** is scheduled from 19/09/2022 to 28/09/2022. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.




Principal

PRINCIPAL
Balaji Institute of Pharmaceutical Sciences
Laknepally (V) Narsampet (M)
Warangal (Dist) - 506 331 (T.S.)



BALAJI INSTITUTE OF PHARMACEUTICAL SCIENCES

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Laknepally (V) Narsampet (M) Warangal Rural (Dist) Telangana State 506331

Contact : +91-9866050044 (Office), +91-9866652412 (Principal), +91-8718-230521 (Fax)

Name of the course: **IPR, Patent drafting, filling and Processing**

Duration: 30 hours

Academic Year: **2022 - 2023**

Curriculum Designed and developed by

S.No	Name of the faculty	Designation	Signature
1	Dr. T . Manish kumar	Professor	
2	R . Manish	Associate professor	

Modules to be covered in the course

S. No	Topic	Duration
1	Overview of Intellectual Property Rights	5 hrs
2	Patents	5hrs
3	Copyright	5 hrs
4	Trademarks	5 hrs
5	Other forms of IP	5 hrs
6	Geographical indication	5 hrs


Course Coordinator




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Contact : +91 9866050044 (Office), +91 986652412 (Principal), +91 8718-230521 (Fax)

Name of the course: **IPR, Patent drafting, filling and Processing**

Duration: 30 Hours

Academic Year: 2022 - 23

Resource person details:

Dr T. Manish Kumar, M.Pharm, Ph.D

Professor, Dept of Pharmaceutical Analysis,

Balaji Institute of Pharmaceutical Sciences.

IPR, Patent drafting, filling and Processing is a course offered in B. Pharmacy 2nd year to 4th year and Pharm. D program at Balaji Institute of Pharmaceutical Sciences, Warangal. This course is designed to impart knowledge of Intellectual property rights and patent procedures. The future prospects of this course are useful in academics, pharmaceutical industry, and research institution and in regulatory bodies. Accordingly, a graduate and post-graduate student should be competent to meet the job requirements at all these places.

Objectives:

1. To introduce fundamental aspects of Intellectual Property Rights to students who are going to play a major role in development and management of innovative projects in industries.
2. To disseminate knowledge on patents, patent regime in India and abroad and registration aspects
3. To disseminate knowledge on copyrights and its related rights and registration aspects
4. To disseminate knowledge on trademarks and registration aspects.



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Learning Outcomes:

1. Appreciate the knowledge of Intellectual property and copyright
2. Develop and design new projects with innovative research ideas
3. Guide others on IPR and Patents.



Course Coordinator



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Date: 08-10-2022

CIRCULAR

It is to inform to all the students of B. Pharmacy and Pharm D all years that, a certificate program on “**Research Design Execution and Publication**” is scheduled from 17/10/2022 to 02/11/2022. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.



Ganesh

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Name of the course: **Research Design Execution and Publication**

Duration: **17/10/2022 to 02/11/2022**

Academic Year: **2022-23**

Modules to be covered in the course

S. No	Topic	Duration
1.	Introduction of Research, Research designs, Bias research Evidence based study Types of evidences Subjects to be used in study Modern day advancements	3hrs
2.	Systematic reviews of trials and other studies Interpreting and understanding meta-analysis graphs	3hrs
3.	Designing, conducting and reporting clinical research	3hrs
4.	Developing research question Components of research question Literature search	3hrs
5.	Scientific literature search Literature review Scientific databases	3hrs
6.	Levels of evidences	3hrs
7.	Types of analysis in research Importance accord ing to study design	3hrs
8.	Acceptance criteria Rejection criteria	3hrs
9.	Publication databases Type of search	3hrs
10.	Journal club Types of publications and the impact	3hrs

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REPORT

Name of the course: **Research Design Execution and Publication**

Duration: **17/10/2022 to 02/11/2022**

Academic Year: **2022-23**

Resource person details:

Dr P. Ravi, M. Pharm, Ph.D

Professor, Dept of Pharmaceutics

Balaji Institute of Pharmaceutical Sciences.

Balaji Institute of Pharmaceutical Sciences, Laknepally, Narsampet, Telangana organized an add on program on "Research Design Execution and Publication" for B. Pharmacy and Pharm D Students by Dr P . Ravi from 17/10/2022 to 02/11/2022. This program was designed to orient the students to develop research designs, study modules, statistical analysis and publications. A total of 60 students participated in this training program. All the students actively participated. Upon completion of the program the students were able to understand the following objectives and learning outcomes.

Objectives:

1. Analyse, interpret and develop research designs, question and analysis
2. Assess the study design, apply and interpret outcomes of study
3. Discuss the rationale for research study design
4. Describe and analyse publication, evidence based literature
5. Types of evidence based literature
6. Developing research protocol, review and publication




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Learning Outcomes:

1. Learn study and research designs, questions
2. Developing effective study designs, Research questions, literature based study
3. Design and concentrate Evidence based study
4. Assess, analyze and interpret evidence based study.
5. Develop protocol, publication sceptical
6. Analyse the quality based publications

This program was very much informative and develops research oriented approach to the students and their feedback was positive about the program. The management of Balaji Institute of Pharmaceutical Sciences thanked the resource persons for making the program successful.



Course Coordinator



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Date: 19-11-2022

CIRCULAR

It is to inform to all the students of B. Pharmacy and Pharm D all years that, a certificate program on "CLINICAL TRIALS AND PV PRACTICES" is scheduled from 23/11/2022 to 09/12/2022. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.




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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: CLINICAL TRAINS AND PV PRACTICES.

Duration: 23/11/2022 to 09/12/2022

Academic Year: 2022-23.

Modules to be covered in the course

Session	Topic	Duration
1.	Introduction of Clinical Research, Clinical Trial Phases Drug Development and Launch	3 Hr
2.	Indian Regulation, ICH GCP, Schedule Y, ICMR, Indian GCP	2 Hr
3.	Ethics Committees and Institutional Review Board, Responsibilities of Sponsor, Investigator, Sponsor – Vendor	3 Hr
4.	Clinical Trial Design, Vendor Selection and Managements, Project Planning, Project Managements	2 Hr
5.	IND Application, Clinical Study Report, NOA Application Informed Consent process	3 Hr
6.	Site Selection and Pre- Study Visits	2 Hr
7.	Site Initiation, Subject Recruitment and Retention Planning	3 Hr
8.	21 CFR Part 11, Site Auditing, Sponsor Compliance and Auditing, SOP For Clinical Research	3 Hr
9.	Drug Safety Reporting, Adverse Event Reporting System and Form, Diagnosis and Managements of ADRs, Medical Evaluation Of AE, Regulatory Aspects In PV	3 Hr
10.	Case Processing, Global Perspective of Pharmacovigilance, Case Narrative Writing	2 Hr
11.	Risk Assessments & Managements, Medical Dictionary for Regulatory Activities med ORA, PV laws And Guidelines	2 Hr
12.	Regulatory Guideline & Laws In PV, PV Auditing and Inspection, Regulatory Aspects In PV	2 Hr

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Name of the course: CLINICAL TRIALS AND PV PRACTICES.

Duration: 23/11/2022 to 09/12/2022

Academic Year: 2022-2023.

Resource person details:

Dr. A. Nagesh, Pharm. D

Associate Professor.

Balaji institute of pharmaceutical sciences, Laknepally, Narsampet, Telangana organized an add on program on "Clinical trials and PV Practices" for B. Pharmacy and Pharm D by Dr. Ajay Godwin Potnuri from 23/11/2022 to 09/12/2022. This program was designed to study PV in clinical trials for healthcare professionals and consumers to update the potential risks of medications. A total of 29 students participated in this training program. All the students actively participated. Upon completion of the program the students were able to understand the following objectives and learning outcomes.

Objective:

To develop an advanced computational platform to facilitate and automate the implementation of PV procedures, Contract Research Organizations (CRO) and the pharma industry studying drug safety issues, as well as drug monitoring organizations and regulatory authorities.

Learning Outcomes:

Should have the Knowledge about the terminology of adverse medication related events, roles and responsibilities in Pharmacovigilance.



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This program was very much informative to the students and their feedback was positive about the program. The management of Balaji institute of pharmaceutical sciences thanked the resource person for making the program successful.



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CIRCULAR

Date: 19.12.2022

It is to inform to all the students of B. Pharmacy and Pharm D all years that, a certificate program on "Isolation and Characterization of Natural Products" is scheduled from 26th 2022 Dec to 11th Jan 2023. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.



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Name of the course: Isolation and Characterization of Natural Products

Duration: 26th Dec 2022 to 11th Jan 2023.

Academic Year: 2022 - 23

Curriculum Designed and Developed by:

S.No	Name of the faculty	Designation	Signature
1.	Dr T. Manish Kumar	Professor	
2.	Mr.M.Narasingham	Associate Professor	

Modules to be covered in the course

S. No	Topic	Duration
1.	General introductory on extraction methods of each class of phytoconstituents, Recent Advancements	3hrs
2.	Isolation methods of each class of phytoconstituents	3hrs
3.	Chemical Methods for identification and TLC identification of the following class of phytoconstituents: a. Alkaloids b. Steroids c. Flavonoids/ Polyphenols/Tannins d. Terpenoids e. Polyketides f. Proteins/Peptides g. Saponins	3hrs
4.	Structure Elucidation of Natural Products: General strategies for structure elucidation of natural products with few examples	3hrs
5.	¹ H NMR and ¹³ C NMR Spectroscopy: Chemical shifts, coupling constant, advanced 2D NMR experiments such as NOE, DEPT, D2O exchange experiment. Quantitative NMR methods.	3hrs
6.	Homonuclear 2D NMR: ¹ H COSY, NOESY, DQF-COSY, TOCSY, ¹³ C correlations INADEQUATE. Heteronuclear 2D	3hrs




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	NMR: HSQC/HMQC, HMBC	
7.	Mass Spectroscopy: Applications in structure elucidation with examples include MALDI TOF, Introduction to nitrogen rule, mass defect, and neutral loss/diagnostic fragment ions filtering methods etc	3hrs
8.	FTIR analysis and identification of phytoconstituents	3hrs
9.	Structure Elucidation: Case studies with examples from alkaloids, flavonoids, sterols, coumarins, triterpenes, and xanthenes	3hrs
10.	Develop, analyse and interpret the spectra of few natural products	3hrs



Course Coordinator




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Contact : +91 9866050044 (Office), +91 986652412 (Principal), +91 8718-230521 (Fax)

Name of the course: Isolation and Characterization of Natural Products

Duration: 26th Dec 2022 to 11th Jan 2023

Academic Year: 2022- 23

Resource person details:

Dr. T. Manish sir, Professor,

Dept of Pharmaceutical analysis.

R. Manish, Assoc.professor.

Dept of Pharmaceutical chemistry.

Balaji Institute of pharmaceutical Sciences, Narsampet, Telangana, organized an add on program on "Isolation and characterization of natural products" for B. Pharmacy and Pharm D students from 26th Dec 2022 to 11th Jan 2023. This program was designed to develop skills in isolation and characterization of natural products. A total of 61 students participated in this training program. All the students actively participated. Upon completion of the program the students were able to understand the following objectives and learning outcomes.

Objectives:

1. Discuss various extraction and isolation approaches for natural products
2. Develop and analyse the best method to improve yields
3. Discuss the recent techniques for best isolation
4. Develop protocols for isolation and interpretation using simple techniques
5. Various spectrometric analysis techniques
6. Discuss and analyse the spectral data

Learning Outcomes:

1. Design the appropriate strategy to isolate and characterize different class of natural products.




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2. Develop industrially relevant method for quantification of different class of natural products.
3. Design the strategy to improve the yield of secondary metabolites
4. Detect different class of natural products using simple chemical methods.
5. Predict the plausible empirical formula based on accurate mass analysis.
6. Choose and apply appropriate 1D and 2D NMR experiments to elucidate the structure of small molecules.



Course Coordinator



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CIRCULAR

Date: 03.03.2023

It is to inform to all the students of B. Pharmacy and Pharm D all years that, a certificate program on “IR Spectroscopy and Data Interpretation” is scheduled from 13th March 2023 to 30th March 2023. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.



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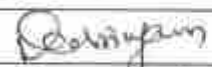
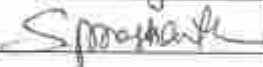
DETAILED SESSION PLAN

Name of the course: IR Spectroscopy and Data Interpretation

Duration: From 13th March 2023 to 30th March 2023

Academic Year: 2022 - 23

Curriculum Designed and developed by

S. No	Name of the Faculty	Designation	Signature
1	Mr. M. Narasingam	Associate Professor	
2	Mr. S. Prashanth	Assistant Professor	

Modules to be covered in the course

Session	Topic	Duration
1	Introduction	1 Hr
2	The Origins of the Infrared Spectrum	1 Hr
3	Spectral Interpretation by Application of Vibrational Group Frequencies	2 Hr
4	The Hydrocarbon Species and Molecular Backbone	2 Hr
5	Simple Functional Groups	2 Hr
6	The Carbonyl Group	2 Hr
7	Other Functional Groups Associated with Heteroatoms	2 Hr
8	Simple inorganic	2 Hr
9	The Practical Situation - Obtaining the Spectrum and Interpreting the Results	2 Hr
10	Sample History	2 Hr




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11	Physical Characteristics of the Sample	2 Hr
12	The Chemistry of the Sample	2 Hr
13	The Infrared Sampling Method	2 Hr
14	An Overview to Infrared Spectral Interpretation	2 Hr
15	Some Simple Rules and Guidelines -A Quick Diagnostic Assessment of an Infrared Spectrum	3 Hr
Total Duration (in Hrs)		30 Hrs


Course Coordinator



Principal


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REPORT

Date: 31-03-2023

Name of the course: IR Spectroscopy and Data Interpretation	Academic Year: 2022 - 23
Duration of Course: 13 th March 2023 to 30 th March 2023	Duration in Hrs: 30 Hrs

Resource person details:

Mr. M. Narasingam, M.Pharm, Ph.D

Asso. Professor, Dept. of Pharm . Analysis

Balaji Institute of Pharmaceutical Sciences

Number of students attended: 60

Balaji Institute of Pharmaceutical Sciences organized a certificate programme on IR Spectroscopy and Data Interpretation (IR) for I & II Year M. Pharmacy students by the resource person Mr. M. Narasingam from 13th March 2023 to 30th March 2023. The comprehensive training ensures that the students can acquire the knowledge of IR Spectroscopy and Data Interpretation process. This Knowledge will help the students to get recruit in Quality Control / Quality Assurance departments of Pharmaceutical Industries. The students participated passionately throughout the program and were able to understand the following objectives and learning outcomes.

Objectives:

- To understand the development of analytical methods by using Spectroscopic Methods.
- To understand the importance of structural elucidation studies.
- To learn about the system suitability parameters and their significance.
- To become aware of method of interpretation of Analytical Spectrums.

Learning outcomes:

- Logical view on how to develop Spectroscopic methods.




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CIRCULAR

Date: 23.01.2023

It is to inform to all the students of B. Pharmacy and Pharm D all years that, a certificate program on "Clinical research Design and Statistical analysis" is scheduled from 30th Jan 2023 to 15th Feb 2023. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.



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Name of the course: Clinical research Design and Statistical analysis.

Duration: 30th Jan 2022 to 15th Feb 2023

Academic Year: 2022 - 23

Curriculum Designed and developed by

S. No	Name of the Faculty	Designation	Signature
1.	Dr A. Shyam sunder	Professor	
2.	Mrs. Likitha	Assistant Professor	

Modules to be covered in the course:

Session	Topic	Duration
1.	Introduction of clinical research, clinical trials and importance of each phase, Types of study designs	3 Hr
2.	Key components of research design and statistical analysis, including observational studies, clinical trials, and survey studies	3 Hr
3.	Developing protocol, study design and evaluation of key components of clinical research study	3 Hr
4.	Systematic reviews, Interpreting and understanding meta-analysis graphs.	3 Hr
5.	Designing, conducting and reporting clinical research study.	3 Hr
6.	Use statistical software to apply statistical methods and techniques	3 Hr
7.	Perform statistical analysis using modern statistical methods	3 Hr
8.	Interpret statistical analysis results in a health-related area (e.g. public health, medicine, genetics, biology, psychology,	3 Hr



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	economics, management and policy, nursing, or pharmacy) for the broad scientific community.	
9.	Address ethical and cost-utility issues in clinical research, including the psychosocial aspects of data sciences.	3 Hr
10.	Need to ensure validity of the data and analyses.	3 Hr



Course coordinator



Principal

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Name of the course: **Clinical research Design and Statistical analysis.**

Duration: **30th Jan 2022 to 15th Feb 2023**

Academic Year: **2022 – 2023**

Resource person details:

Dr A. Shyam sunder, M.Pharm, Ph.D

Professor, Dept. of Pharmacology.

Balaji Institute of Pharmaceutical Sciences.

Balaji Institute of Pharmaceutical Sciences, Warangal, Telangana organized an add on program on "Clinical research Design and Statistical analysis" for M. Pharmacy IInd year by **Dr A. Shyam sunder** from **30th Jan 2022 to 15th Feb 2023**. This program was designed to develop a rationale based study with evidence in the hospital based projects for the students. Total of 60 students participated in this training program. All the students actively participated. Upon completion of the program the students were able to understand the following objectives and learning outcomes.

Objectives:

1. Analyse, interpret and develop clinical research study design, protocols
2. Assess the study design, apply and interpret outcomes of study
3. Discuss the rationale for clinical research protocol
4. Describe, conduct and analyse evidence based study
5. Types of clinical research studies and statistical analysis
6. Analyze, interpret and validate the results using statistical analysis

Learning Outcomes:

1. Learn study and develop clinical research protocols
2. Developing effective evidence based clinical trial approaches
3. Design, validate and create statistical measures for the outcomes of the study



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4. Statistical approaches for interpreting outcomes of study
5. Understanding advancements in using modern statistical approaches
6. Analyse the quality based study with statistical relevance.

This program was very much informative and develops a clear understanding of statistical approaches for clinical research studies and interpreting the outcomes of the study to the students and their feedback was positive about the program. The management of Balaji Institute of Pharmaceutical Sciences thanked the resource persons for making the program successful.



Course Coordinator



Principal

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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

CIRCULAR

Date: 28.02.2023

It is to inform to all the students of B. Pharmacy and Pharm D all years that, a certificate program on "Pharmacokinetic calculation." is scheduled from 07th Mar 2023 to 24th Mar 2023. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.




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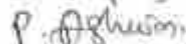
Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: Pharmacokinetic calculation.

Duration: 30 hours

Academic Year: 2022 – 23.

Curriculum Designed and developed by

S.No	Name of the faculty	Designation	Signature
1	Mrs. G. Priyanka	Associate professor	
2	Mrs. P. Ashwini Kumari	Associate professor	

Modules to be covered in the course:

S. No	Topic	Duration
1	Describe the concepts important for understanding and predicting the relationship between the physicochemical properties of the drug, the drug's fate in the body after its administration as a dosage form and the resulting onset, duration, and intensity of drug action.	3 hrs
2	Effects of fundamental physicochemical properties on the biopharmaceutical behavior of drugs and dosage forms in the body Drug Absorption: Gastrointestinal and rectal kinetics and factors affecting drug absorption. Absorption kinetics, absorption rate constant determination.	3 hrs
3	Elimination of drugs: Concept of renal clearance and excretion of drugs -biological half- life, area under curve.	2 hrs
4	Bioavailability of drug products: Bioavailability tests, Bioequivalence, Compartment models and relevant pharmacokinetic parameters.	3 hrs
5	Graphing PK Data on Semi-log Graph Paper Writing Differential Equations, Calculating AUC (Area under the Curve) using the Trapezoidal Rule.	3 hrs
6	Pharmacokinetic Introduction: An Introduction to Pharmacokinetics, Complex Interactions Drug Transport, One, Two and Three Compartment Models.	2 hrs




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7	IV Bolus Dose - One Compartment Absorption and Elimination, IV Bolus Two Compartment Model, Two Compartment Model Drug Effect versus Time, Drug Product Performance Parameters.	3 hrs
8	A(absorption) D(distribution), M(metabolism) E(excretion), Routes of Drug Administration, Tablet Dissolution, Absorption versus Particle Size, Absorption of Different Salt Forms, Drug Effect and Absorption	2 hrs
9	Effect of Absorption Rate Constant, Distribution, ADME, Drug Elimination, Elimination and Multiple Dose, Dosing Kanamycin, Renal Disease and Drug Elimination	2 hrs
10	Absorption and First-Pass Effect Aspirin Elimination, Multiphasic drug elimination, Tissue Concentration versus Time, Distribution Individualized Dosage Regimen.	3 hrs
11	Pharmacokinetic calculations- usage of software for mechanism of drug release with in vitro and in vivo data.	4 hrs



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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: Pharmacokinetic Calculations.

Duration: 30 hrs

Academic Year: 2022- 23

Resource person details:

Mrs. G. Priyanka, M.Pharm,

Associate Professor, Dept of Pharmaceutics

Balaji Institute of Pharmaceutical Sciences.

Balaji Institute of Pharmaceutical Sciences, Hyderabad, organized an add on program on **Pharmacokinetic Calculations** for M. Pharmacy students of Pharmaceutics department by **Mrs. G. Priyanka** from **07th Mar 2023 to 24th Mar 2023**. This program was designed to develop knowledge on pharmaceutical dosage forms and optimization techniques. Totally 24 students are participated in this training program. All the students are actively participated. Upon completion of program the students were able to understand the following objectives and learning outcomes.

Objectives:

- Understand the pharmacokinetics of medicine in the body.
- Illuminates the interrelationship among preparation, biology and drug treatment.
- Summarize the complexities involved in the general application of pharmacokinetic principles to special populations.
- Outline the basic principles of non-linear kinetics.
- Determine the kinetic parameters using software.

Learning Outcomes:

- Define the common pharmacokinetic terms and explain their applications.




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- Discuss the major processes and factors involved in drug absorption, distribution, metabolism and elimination.
- State the concept of bioavailability, bioequivalence and calculate these two pharmacokinetic parameters.
- Apply the relationship between volume of distribution, clearance and elimination half life.

This program was very much informative to students and their feedback was positive about the program.



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Date: 06-04-2023

CIRCULAR

It is to inform to all the students of B.Pharmacy I to IV years and Pharm. D that a certification work on **"Outcome based education"** is scheduled from: 12-04-23 to 28-04-23. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.



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Name of the course: **Outcome based education**

Duration: 30 hours

Academic Year: **2022 - 23**

Modules to be covered in the course.

S. No	Topic	Duration
1	Need for outcome based education, Understanding graduate attributes competencies and performance indicators.	3 hrs
2	Introduction to Pharmacy, Fundamentals of organic chemistry, microbiology, biotechnology, Dosage form science.	3 hrs
3	Drug development and its stages- clinical trials.	3 hrs
4	Patient counseling, Basic compounding and dispensing techniques.	3 hrs
5	Methods of drug administration, Calculation of doses based on the age, Patient counseling.	3 hrs
6	Checking of blood pressure, blood grouping, and glucose levels in blood.	3 hrs
7	Pharmaceutical research methods and techniques.	3 hrs
8	Blood analysis and urine analysis techniques.	3 hrs
9	Use of software in blood and urine analysis.	3 hrs
10	Current scenario of industries for development of dosage forms and Pharmacy clerkship.	3 hrs


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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: Outcome Based Education

Duration: 30 hrs

Academic Year: 2022 – 23

Resource person details:

Dr P. Ravi, M.Pharm, Ph.D

Professor, Dept of Pharmaceutics,

Balaji Institute of Pharmaceutical Sciences.

Balaji Institute of Pharmaceutical Sciences, Hyderabad organized an add on program on **Outcome Based Education** for B. Pharmacy & Pharm. D students by **Dr P. Ravi** from 18/11/19 to 04/12/19. This program was designed to focus on what the school provides to students and making the students to demonstrate that they know and are able to do whatever the required outcomes. Total 60 students are participated in this training program. All the students are actively participated. Upon completion of program the students were able to understand the following objectives and learning outcomes.

Objectives:

- To assess student learning levels.
- Understand the various techniques for analysis of samples.
- To know the various approaches for development of dosage forms.
- To ensure global competitiveness.
- Guidance for articulating the essential learning's associated with programs of study.

Learning Outcomes:

Understand the importance of pharmacy education.

Understand the equipments used in industries for development of dosage forms.

Know various techniques used for analysis of samples.




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This program was very much informative to students and their feedback was positive about the program.



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Date: 20-11-2021

CIRCULAR

It is to inform to all the students of Pharmacy I to IV years that a certification work on **Research Design Execution and Publication** is scheduled from 23/11/2021 to 10/12/2021. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.



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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: **Research Design Execution and Publication**

Duration: 23/11/2021 to 10/12/2021

Academic Year: **2021 - 22**

Modules to be covered in the course

S. No	Topic	Duration
1.	Introduction of Research, Research designs, Bias research Evidence based study Types of evidences Subjects to be used in study Modern day advancements	3hrs
2.	Systematic reviews of trials and other studies Interpreting and understanding meta-analysis graphs	3hrs
3.	Designing, conducting and reporting clinical research	3hrs
4.	Developing research question Components of research question Literature search	3hrs
5.	Scientific literature search Literature review Scientific databases	3hrs
6.	Levels of evidences	3hrs
7.	Types of analysis in research Importance accord ing to study design	3hrs
8.	Acceptance criteria Rejection criteria	3hrs
9.	Publication databases Type of search	3hrs
10.	Journal club Types of publications and the impact	3hrs


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REPORT

Name of the course: Research Design Execution and Publication

Duration: 23/11/2021 to 09/12/2021

Academic Year: 2021-22

Resource person details:

Dr. A. Shyam sundar. M.Pharm, Ph.D

Professor, Dept of Pharmacology.

Balaji Institute of Pharmaceutical Sciences.

Balaji Institute of Pharmaceutical Sciences, Warangal, Telangana organized an add on program on "Research Design Execution and Publication" for B.Pharmacy students by Dr A. Shyam sundar from 23/11/2021 to 10/12/2021. This program was designed to orient the students to develop research designs, study modules, statistical analysis and publications. A total of 60 students participated in this training program. All the students actively participated. Upon completion of the program the students were able to understand the following objectives and learning outcomes.

Objectives:

1. Analyse, interpret and develop research designs, question and analysis
2. Assess the study design, apply and interpret outcomes of study
3. Discuss the rationale for research study design
4. Describe and analyse publication, evidence based literature
5. Types of evidence based literature
6. Developing research protocol, review and publication

Learning Outcomes:

1. Learn study and research designs, questions
2. Developing effective study designs, Research questions, literature based study
3. Design and concentrate Evidence based study
4. Assess, analyze and interpret evidence based study.
5. Develop protocol, publication scientific
6. Analyse the quality based publications



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This program was very much informative and develops research oriented approach to the students and their feedback was positive about the program. The management of Balaji Institute of Pharmaceutical Sciences thanked the resource persons for making the program successful.


Course Coordinator


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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Date: 20-12-2021

CIRCULAR

It is to inform to all the students of Pharmacy I to IV years that a certification work on "IPR, Patent drafting, filling and Processing" is scheduled from 24/12/2021 to 12/01/2022. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.

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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: **IPR, Patent drafting, filling and Processing**

Duration: 30 hours

Academic Year: 2021 - 22

Curriculum Designed and developed by

S.No	Name of the facul	Designation	Signature
1	T. Manish Kumar	Professor	
2	J. Nagaraju	Associate professor	

Modules to be covered in the course

S. No	Topic	Duration
1	Overview of Intellectual Property Rights	5 hrs
2	Patents	5hrs
3	Copyright	5 hrs
4	Trademarks	5 hrs
5	Other forms of IP	5 hrs
6	Geographical indication	5 hrs

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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: **IPR, Patent drafting, filling and Processing**

Duration: **24/12/2021 to 12/01/2022**

Academic Year: **2021 - 22**

Resource person details:

Dr T. Manish kumar, M.Pharm, Ph.D

Professor, Dept of Pharmaceutical Analysis.

Balaji Institute of Pharmaceutical Sciences.

IPR, Patent drafting, filling and Processing is a course offered in B. Pharmacy and M. Pharm Program at Balaji Institute of Pharmaceutical Sciences, Narsampet. This course is designed to impart knowledge of Intellectual property rights and patent procedures. The future prospects of this course are useful in academics, pharmaceutical industry, and research institution and in regulatory bodies. Accordingly, a graduate and post-graduate student should be competent to meet the job requirements at all these places.

Objectives:

1. To introduce fundamental aspects of Intellectual property Rights to students who are going to play a major role in development and management of innovative projects in industries.
2. To disseminate knowledge on patents, patent regime in India and abroad and registration aspects
3. To disseminate knowledge on copyrights and its related rights and registration aspects
4. To disseminate knowledge on trademarks and registration aspects

Learning Outcomes:

1. Appreciate the knowledge of Intellectual property and copyright
2. Develop and design new projects with innovative research ideas
3. Guide others on IPR and Patents


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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Date: 22-01-2022

CIRCULAR

It is to inform to all the students of Pharmacy I to IV years that a certification work on "Outcome based education" is scheduled from 27/01/22 to 12/02/22. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.




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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: **Outcome based education**

Duration: **27/01/22 to 12/02/22**

Academic Year: **2021 - 22**

Modules to be covered in the course.

S. No	Topic	Duration
1.	Need for outcome based education, Understanding graduate attributes competencies and performance indicators.	3 hrs
2	Introduction to Pharmacy, Fundamentals of organic chemistry, microbiology, biotechnology, Dosage form science.	3 hrs
3	Drug development and its stages- clinical trials.	3 hrs
4	Patient counseling, Basic compounding and dispensing techniques.	3 hrs
5	Methods of drug administration, Calculation of doses based on the age, Patient counseling.	3 hrs
6	Checking of blood pressure, blood grouping, and glucose levels in blood.	3 hrs
7	Pharmaceutical research methods and techniques.	3 hrs
8	Blood analysis and urine analysis techniques.	3 hrs
9	Use of software in blood and urine analysis.	3 hrs
10	Current scenario of industries for development of dosage forms and Pharmacy clerkship.	3 hrs

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Name of the course: Outcome Based Education

Duration: 27/01/22 to 12/02/22

Academic Year: 2021 – 22

Resource person details:

Dr P. Ravi, M.Pharm, Ph.D

Professor, Dept of Pharmaceutics,

Balaji Institute of Pharmaceutical Sciences.

Balaji Institute of Pharmaceutical Sciences, Hyderabad organized an add on program on **Outcome Based Education** for B. Pharmacy & Pharm. D students by Dr P. Ravi from **27/01/22 to 12/02/22**. This program was designed to focus on what the school provides to students and making the students to demonstrate that they know and are able to do whatever the required outcomes. Total 60 students are participated in this training program. All the students are actively participated. Upon completion of program the students were able to understand the following objectives and learning outcomes.

Objectives:

- To assess student learning levels.
- Understand the various techniques for analysis of samples.
- To know the various approaches for development of dosage forms.
- To ensure global competitiveness.
- Guidance for articulating the essential learning's associated with programs of study.

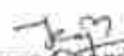
Learning Outcomes:

Understand the importance of pharmacy education.

Understand the equipments used in industries for development of dosage forms.

Know various techniques used for analysis of samples.

This program was very much informative to students and their feedback was positive about the program.


Course Coordinator




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Contact :- +91-9866050044 (Office), +91-9866652412 (Principal), +91-8718-230521 (Fax).

Date: 28-02-2022

CIRCULAR

It is to inform to all the students of Pharmacy I to IV years and Pharm D that a certification work on "Pharmacokinetic calculation" is scheduled from 01/03/2022 to 17/03/2022. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.




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Contact : +91 9856050044 (Office), +91 9856652412 (Principal), +91 8718-230521 (Fax)

Name of the course: Pharmacokinetic calculation.

Duration: 01/03/2022 to 17/03/2022

Academic Year: 2021 - 22

Curriculum Designed and developed by

S.No	Name of the faculty	Designation	Signature
1	Mr. G. Venkataramana	Associate professor	
2	Mrs. G. Priyanka	Assistant professor	

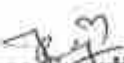
Modules to be covered in the course

S. No	Topic	Duration
1	Describe the concepts important for understanding and predicting the relationship between the physicochemical properties of the drug, the drug's fate in the body after its administration as a dosage form and the resulting onset, duration, and intensity of drug action.	3 hrs
2	Effects of fundamental physicochemical properties on the biopharmaceutical behavior of drugs and dosage forms in the body Drug Absorption: Gastrointestinal, percutaneous, and rectal kinetics and factors affecting drug absorption. Absorption kinetics- absorption rate constant determination	2 hrs
3	Elimination of drugs: Concept of renal clearance and excretion of drugs - biological half- life, area under curve.	2 hrs
4	Bioavailability of drug products: Bioavailability tests. Bioequivalence. Compartment models and relevant pharmacokinetic parameters.	2 hrs
5	Graphing PK Data on Semi-log Graph Paper Writing Differential Equations, Calculating AUC (Area under the Curve) using the Trapezoidal Rule.	3 hrs
6	Pharmacokinetic Introduction: An Introduction to Pharmacokinetics, Complex Interactions Drug Transport, One, Two and Three Compartment Models.	3 hrs
7	IV Bolus Dose - One Compartment Absorption and Elimination, IV Bolus Two Compartment Model, Two Compartment Model Drug Effect versus Time, Drug Product Performance Parameters.	3 hrs
8	A(absorption) D(distribution), M(metabolism) E(excretion), Routes of Drug Administration, Tablet Dissolution, Absorption versus Particle Size, Absorption of Different Salt Forms, Drug Effect and Absorption	3 hrs
9	Effect of Absorption Rate Constant, Distribution, ADME, Drug	3 hrs




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	Elimination, Elimination and Multiple Dose, Dosing Kanamycin, Renal Disease and Drug Elimination	
10	Absorption and First-Pass Effect Aspirin Elimination, Multiphasic Drug Elimination, Tissue Concentration versus Time, Distribution Individualized Dosage Regimen.	3 hrs
11	Pharmacokinetic calculations- usage of software for mechanism of drug release with invitro and in vivo data.	3 hrs


Course Coordinator




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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: Pharmacokinetic Calculations.

Duration: 01/03/2022 to 17/03/2022

Academic Year: 2021- 22

Resource person details:

G. Venkataramana, M.Pharm,

Associate Professor, Dept of Pharmaceutics,

Balaji Institute of Pharmaceutical Sciences.

Balaji Institute of Pharmaceutical Sciences, Warangal organized an add on program on **Pharmacokinetic Calculations** for Pharmacy students of Pharmaceutics department by G. Venkataramana from 01/03/2022 to 17/03/2022. This program was designed to develop knowledge on pharmaceutical dosage forms and optimization techniques. Totally 60 students are participated in this training program. All the students are actively participated. Upon completion of program the students were able to understand the following objectives and learning outcomes.

Objectives:

- Understand the pharmacokinetics of medicine in the body.
- Illuminates the interrelationship among preparation, biology and drug treatment.
- Summarize the complexities involved in the general application of pharmacokinetic principles to special populations.
- Outline the basic principles of non-linear kinetics.
- Determine the kinetic parameters using software.

Learning Outcomes:

- Define the common pharmacokinetic terms and explain their applications.
- Discuss the major processes and factors involved in drug absorption, distribution, metabolism and elimination.
- State the concept of bioavailability, bioequivalence and calculate these two pharmacokinetic parameters.
- Apply the relationship between volume of distribution, clearance and elimination half life.

This program was very much informative to students and their feedback was positive about the program.


Course Coordinator




Principal

PRINCIPAL

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Date: 02-04-2022

CIRCULAR

It is to inform to all the students of Pharmacy I to IV years that a certification work on **"IR Spectroscopy and Data Interpretation"** is scheduled from 11/04/22 to 27/04/22. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.



Principal

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DETAILED SESSION PLAN

Name of the course: IR Spectroscopy and Data Interpretation

Duration: From 11/04/22 to 27/04/22

Academic Year: 2021-22.

Curriculum Designed and developed by

S. No	Name of the Faculty	Designation	Signature
1	Mr. M. Narsingham	Assoc. Professor	
2	Mrs M. Manasa	Assistant Professor	

Modules to be covered in the course

Session	Topic	Duration
1	Introduction	1 Hr
2	The Origins of the Infrared Spectrum	1 Hr
3	Spectral Interpretation by Application of Vibrational Group Frequencies	2 Hr
4	The Hydrocarbon Species and Molecular Backbone	2 Hr
5	Simple Functional Groups	2 Hr
6	The Carbonyl Group	2 Hr
7	Other Functional Groups Associated with Heteroatoms	2 Hr
8	Simple Inorganics	2 Hr
9	The Practical Situation - Obtaining the Spectrum and Interpreting the Results	2 Hr
10	Sample History	2 Hr
11	Physical Characteristics of the Sample	2 Hr
12	The Chemistry of the Sample	2 Hr
13	The Infrared Sampling Method	2 Hr



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14	An Overview to Infrared Spectral Interpretation	2 Hr
15	Some Simple Rules and Guidelines -A Quick Diagnostic Assessment of an Infrared Spectrum	3 Hr
Total Duration (in Hrs)		30 Hrs


Course Coordinator


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REPORT

Date: 28-04-2022

Name of the course: IR Spectroscopy and Data Interpretation	Academic Year: 2021-22
Duration of Course: From 11/04/22 to 27/04/22	Duration in Hrs: 30 Hrs

Resource person details:

Mr. M. Narsingham, M.Pharm.

Associate Professor, Dept. of Pharm. Analysis

Balaji Institute of Pharmaceutical Sciences.

Number of students attended: 60

Balaji Institute of Pharmaceutical Sciences, organized a certificate programme on **IR Spectroscopy and Data Interpretation (IR)** for I & II Year M. Pharmacy students by the resource person **Mr. M. Narsingham** from 11/04/22 to 27/04/22. The comprehensive training ensures that the students can acquire the knowledge of IR Spectroscopy and Data Interpretation process. This Knowledge will help the students to get recruit in Quality Control / Quality Assurance departments of Pharmaceutical Industries. The students participated passionately throughout the program and were able to understand the following objectives and learning outcomes.

Objectives:

- To understand the development of analytical methods by using Spectroscopic Methods.
- To understand the importance of structural elucidation studies.
- To learn about the system suitability parameters and their significance.
- To become aware of method of interpretation of Analytical Spectrums.

Learning outcomes:

- Logical view on how to develop Spectroscopic methods.
- Key factors affecting infrared spectroscopy and functional group analysis.
- Knowledge about functional groups identification and spectra interpretation



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Totally 60 students participated in this training. All the students enthusiastically participated in the program. The program was very much valuable to them and their feedback was encouraging about the program.


Course Coordinator


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Date: 15-06-2022

CIRCULAR

It is to inform to all the students of Pharmacy I to IV years that a certification work on
“Advances in Pharmaceutical Drug Delivery and Technology” is scheduled from 20/06/22 to
06/07/22. In this regard all the students are informed to attend the session without fail. A
certificate will be given to all the students who complete the course.




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Name of the course: Advances in Pharmaceutical Drug Delivery and Technology

Duration: 20/06/22 to 06/07/22.

Academic Year: 2021-22

Curriculum Designed and developed by

S. No	Name of the Faculty	Designation	Signature
1	Mr. Raja Navamani Subramanian	Associate Professor	
2	Ms. P.Vandana	Assistant Professor	

Modules to be covered in the course

S. No	Topic	Duration
1	What is Drug Delivery? The Promise of Drug Delivery- Basics of Drug delivery systems - types and Technology used in industries for dosage form development	3 hrs
2	Local Administration for Systemic Effect, Local Administration for Local Effect, Systemic Administration for Systemic Effect, Systemic Administration for Local Effect, Clinical Linkage: Closed Loop Systems.	3 hrs
3	Overview of Drug Delivery Approaches, Enhancing Permeation, Modifying Drugs by Attachment to Polymers, Manipulating Existing Drug Transport Mechanisms.	3 hrs
4	Utilizing Vectors to Deliver Drugs, Remote Triggering, Clinical Linkage: Recent Advances in Drug Delivery Systems.	3 hrs
5	Overview of Materials and Systems, Polymeric Materials, Non-polymeric Materials Triggerable Materials, Micro particles vs. Nanoparticles, Hydrogels, Biocompatibility.	3 hrs
6	Role of Nanoparticles in drug delivery systems	3 hrs
7	Formulation, Innovations, Evaluation of multi unit drug delivery systems like microspheres, pellets, beads, Mini tablets.	3 hrs
8	Clinical Linkage: Developing New Drug Delivery Systems.	3 hrs
9	Polymer science - Role, Classification, Properties and Applications, Role of sonophoresis, iontophoresis in drug delivery and quality control	3 hrs
10	The Future of Drug Delivery with clinical studies used in industries.	3 hrs

Course Coordinator



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Name of the course: **Advances in Pharmaceutical Drug Delivery and Technology**

Duration : **20/06/22 to 06/07/22**

Academic Year : **2021-22**

Resource person details:

Mr. Raja Navamani Subramanian, M.Pharm.

Associate Professor, Dept of Pharmaceutics

Balaji Institute of Pharmaceutical Sciences.

Balaji Institute of Pharmaceutical Sciences, Warangal organized an add on program on **Advances in Pharmaceutical Drug Delivery and Technology** for B. Pharmacy students by Mr. Raja Navamani Subramanian from **20/06/22 to 06/07/22** in a virtual mode. This program was designed to develop knowledge on Advances in drug delivery systems and on equipments used in industry for drug delivery systems. Totally 64 students are participated in this training program. All the students are actively participated. Upon completion of program the students were able to understand the following objectives and learning outcomes.

Objectives:

- Understand the importance of polymers.
- Understand the criteria for selection of drugs and polymers for development of drug delivery systems, their formulation and evaluation.
- To know the various approaches for development of dosage forms.
- Understand the new equipments used in industries for development of dosage forms.

Learning Outcomes:

- Know the formulation additives of drug delivery systems.
- Formulation of drug delivery systems and quality control tests.
- Know various techniques used in pharmaceutical industries.

This program was very much informative to students and their feedback was positive about the programme.


Course Coordinator




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Date: 30-07-2022

CIRCULAR

It is to inform to all the students of Pharm D I to VI years that a certification work on "Curriculum Design for Statistical Analysis System (SAS)" is scheduled from 08/08/2022 to 24/08/2022. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.


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Name of the course: Curriculum Design for Statistical Analysis System (SAS):

Duration : 08/08/2022 to 24/08/2022

Academic Year : 2021-22

Course Data:

S.No.	Topics	Hours
1	Introduction to Clinical Research process, Drug Development process, phases of Clinical Research, Industry regulations and standards for Clinical Trials, Departments and roles in a CRO	1hr
2	History and introduction to SAS, Role of Statistical Analysis in Clinical Research study, SAS role in Clinical Research Study, Protocol study, Randomization and Non-randomization, SOP, About DBMS, CDM, SAP in Clinical Research Study	1hr
3	SAS work flow in clinical Research Study, Relation between SAS and DBMS, SAS with CDM, CDISC Data models (SDTM, ADM etc.), SAS Report generation in Clinical Research Study	1 hr
4	SAS system overview, working in the SAS environment, Basics of SAS including data and proc step, structure of the data set, variables and attributes, basic rules of writing SAS programs, basic rules to define variables and data set names, SAS windows, keyboard shortcuts.	1hr
5	SAS system options, Title and footnote statements, comments, Data Step processing (PDV, Debugging SAS Code, Error, Warning, Notes in SAS log)	1hr
6	Referencing a SAS data library using library name statement, reading external files and engines using filename statement (clipboard, DDE, Excel, Access)	1hr
7	Reading external file (note pad) using INFILE statement with options, writing data to external sources using file and put statements	1hr
8	Importing data using PROC IMPORT and EXPORT (Delimited files including comma, blank etc. Reading Microsoft excel files including, xls,xlsx, csv, reading Microsoft access files including MDB, ACCDB)	1hr
9	Print procedure with options and statements	1hr
10	Sort procedure with options for sorting and eliminating duplicate observations, Pre-defined informats and formats (character, numeric, reading data and time)	1hr
11	Proc format for creating user defined informats and formats (character, numeric, data and time) managing SAS catalogs	1hr
12	Conditional statements in SAS (if, if then else, if then do else, select when, select when do)	1hr
13	Processing variables with arrays (group variables into one dimensional, two dimensional, computing arrays, assigning initial values, creating new variables using arrays and SAS Functions (Character)	1hr



Sanjeev

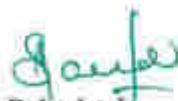
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14	SAS Functions (Numeric Statistical, Arithmetic, truncation and Special)	1hr
15	Merging SAS data sets (one to one concatenating, inter-leaving, simple merge, match merge, update, append)	1hr
16	Accumulating values of a variable using retain statement, logical variables (first, and last.), Control variables (keep and drop)	1hr
17	PROC MEANS procedure to find out descriptive statistical analysis, PROC FREQ procedure to find out frequency distribution of the data	1hr
18	PROC TABULATE Procedure to find out descriptive statistics in tabular format, PROC REPORT Procedure for summary and tabular data analysis	1hr
19	PROC DATASETS for managing data sets; views; indexes, catalogs etc, PROC TRANSPOSE to transpose data in row to columns and columns to rows	1hr
20	PROC CONTENTS to find out the descriptor information of the dataset, PROC COMPARE to compare the descriptors of two or more data sets	1hr
21	PROC SUMMARY for descriptive statistical analysis, PROC UNIVARIATE to find out descriptive statistics based on moments (including skewness and kurtosis), quantiles and percentiles, frequency tables etc.	1hr
22	SAS STAT (CORRELATION Procedure, REGRESSION Procedure, TTEST Procedure, NPARIWAY Procedure)	1hr
23	Concepts and features of SAS Macro programming, advantages of Macro Programming, Macro Processing	2hr
24	Creating macro variables, passing values to macros using parameters	1hr
25	SAS SQL basics, terminology, syntax, SQL vs Data step, DBMS vs RDMS	1hr
26	SQL Commands (DDL, DML, DQL, TCL, DCL)	1hr
27	SQL functions, SQL Views, Indexes	1hr
28	Using SQL with SAS macro facility, SQL Joins	1hr
29	SAS Access (Library name engine architecture, ACCESS procedure, Access and view descriptors, DBLOAD procedure, SQL pass through facility)	1hr
30	SAS ODS (PDF, RTF, XML, HTML, EXCEL, XP TAGSET, ODS LISTING)	1hr


Course Coordinator




Principal

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Date: 25-08-2022

PROGRAMME REPORT

Name of the course : Statistical Analysis System (SAS)

Duration : 08/08/2022 to 24/08/2022

Academic Year : 2021-22

Resource Person details:

Mr. T. Manish kumar, M.Pharm, Ph.D.

Professor, HOD of Pharmaceutical Analysis

Balaji Institute of Pharmaceutical Sciences,

Email: manishcancer@gmail.com

Contact: 9966463586.

Balaji Institute of Pharmaceutical Sciences, Narsampet, organised a certificate program on Statistical Analysis system (SAS) for Pharmacy students by the resource person **Mr. manish kumar** from **08/08/2022 to 24/08/2022**. This program is designed to provide knowledge on clinical trial data analysis using SAS. Totally 39 Students participated in this training program. All the students were enthusiastic and upon completion of the program they were able to understand the following objectives and learning outcomes.

Objectives:

1. Role of SAS programmers in clinical research.
2. Advanced concepts including SAS SQL, SAS Macros, SAS STAT, SAS ACCESS, SAS GRAPH, SAS ODS.
3. Enhance table relationships using Indexes, views and integrity constraints.
4. Data transformations.
5. Data validation techniques using SAS.
6. Integrate Clinical SAS Data and Metadata.

Learning Outcomes:

1. Acquire proficient programming skills that are required in Clinical SAS.
2. Able to write SAS programs and SAS environment in windows.
3. Creating SAS datasets using different SAS statements and data importing methods.
4. Understanding data step processing.
5. Data validation techniques using SAS.
6. Basic knowledge on CDISC including SDTM, ADAM and ODM.
7. Acquire related positions and roles in the Industry.


Coordinator




Principal

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Date: 01-07-2020

CIRCULAR

All the students of B. Pharmacy I to IV years and Pharm D are hereby informed that an add on course on **Clinical research Design and Statistical analysis**, is scheduled from **06-07-2020 to 22-07-2020**. All the students are instructed to get enrolled and attend all the classes without fail.



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Name of the course: Clinical research Design and Statistical analysis.

Duration: From 06-07-2020 to 22-07-2020

Academic Year: 2020 - 21

Curriculum Designed and developed by

S. No	Name of the Faculty	Designation	Signature
1.	Dr A. Shyam sunder	Professor	
2.	Mrs. Likitha	Assistant Professor	

Modules to be covered in the course:

Session	Topic	Duration
1.	Introduction of clinical research, clinical trials and importance of each phase, Types of study designs	3 Hr
2.	Key components of research design and statistical analysis, including observational studies, clinical trials, and survey studies	3 Hr
3.	Developing protocol, study design and evaluation of key components of clinical research study	3 Hr
4.	Systematic reviews, Interpreting and understanding meta-analysis graphs.	3 Hr
5.	Designing, conducting and reporting clinical research study.	3 Hr
6.	Use statistical software to apply statistical methods and techniques	3 Hr
7.	Perform statistical analysis using modern statistical methods	3 Hr
8.	Interpret statistical analysis results in a health-related area (e.g. public health, medicine, genetics, biology, psychology, economics, management and policy, nursing, or pharmacy) for the broad scientific community.	3 Hr
9.	Address ethical and cost-utility issues in clinical research, including the psychosocial aspects of data sciences.	3 Hr
10.	Need to ensure validity of the data and analyses.	3 Hr

Course coordinator



PRINCIPAL

principal



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Name of the course: **Clinical research Design and Statistical analysis.**

Duration: From **06-07-2020 to 22-07-2020**

Academic Year: **2020 – 2021**

Resource person details:

Dr A. Shyam sunder, M.Pharm, Ph.D

Professor, Dept. of Pharmacology.

Balaji Institute of Pharmaceutical Sciences.

Balaji Institute of Pharmaceutical Sciences, Warangal, Telangana organized an add on program on "**Clinical research Design and Statistical analysis**" for Pharm D students, M. Pharmacy and B. Pharmacy 3rd and 4th year students by **Dr A. Shyam sunder** from **06-07-2020 to 22-07-2020**. This program was designed to develop a rationale based study with evidence in the hospital based projects for the students. Total of 60 students participated in this training program. All the students actively participated. Upon completion of the program the students were able to understand the following objectives and learning outcomes.

Objectives:

1. Analyse, interpret and develop clinical research study design, protocols
2. Assess the study design, apply and interpret outcomes of study
3. Discuss the rationale for clinical research protocol
4. Describe, conduct and analyse evidence based study
5. Types of clinical research studies and statistical analysis
6. Analyse, interpret and validate the results using statistical analysis

Learning Outcomes:

1. Learn study and develop clinical research protocols
2. Developing effective evidence based clinical trial approaches
3. Design, validate and create statistical measures for the outcomes of the study
4. Statistical approaches for interpreting outcomes of study
5. Understanding advancements in using modern statistical approaches
6. Analyse the quality based study with statistical relevance.

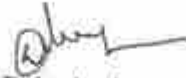



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This program was very much informative and develops a clear understanding of statistical approaches for clinical research studies and interpreting the outcomes of the study to the students and their feedback was positive about the program. The management of Balaji Institute of Pharmaceutical Sciences thanked the resource persons for making the program successful.


Course Coordinator


Principal



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INSTITUTE OF PHARMACEUTICAL SCIENCES

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Date: 30-07-2020

CIRCULAR

All the students of B.Pharmacy I to IV years are hereby informed that an add on course on **Campus Recruitment Training** is scheduled from **12-08-2020 to 31-08-2020**. All the students are instructed to get enrolled and attend all the classes without fail.



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DETAILED SESSION PLAN

Name of the course: Campus Recruitment Training

Duration: 12-08-2020 to 31-08-2020

Academic Year: 2020-21

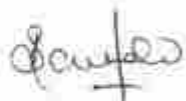
Modules to be covered in the course

Session	Module	Approach	Duration
1	Self-awareness & Psychological test	Aptitude and personality assessment, suggestions for improvement.	2 Hr
2	Industry Expectations & Career Planning	Academics and Industry - Current Scenario, Gaps, A few Myths, Industry Expectations on Skill base.	2 Hr
3	Communicating Prof. & confidence in an interview	Recognize the importance of Body language. And manage Body language for success in an interview.	3 Hr
4	Mock Interview	Practice Session.	2 Hr
5	Grooming and Etiquette	Identify the importance of appropriate dress sense and grooming in an interview.	2 Hr
6	Group Discussion	Know the importance of GD for final placements.	2 Hr
7	Mock Interview	Practice Session.	2 Hr
8	Resume Writing	Customization of Resume to the candidate.	2 Hr
9	Interview Concepts	Elaborate on the interview concepts.	2 Hr
10	Mock Interview	Practice Session.	2 Hr




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11	Interview - Personal	We discuss introducing self and more about self in Personal Interviews.	2 Hr
12	Interview - Life	Different questions asked by HR and how to give answers for them.	2 Hr
13	Interview - Telephonic	Telephone Etiquette .	2 Hr
14	Job Interview & Video Interview	Mock Interviews can be conducted here to give practical exposure to students.	2 Hr
15	Interview Assessment Round	Conducting SWOT Analysis and make Students to realize how to bring the Interviewer to students comfortable zone.	2 Hr
Total Duration in Hrs:			30 Hrs


Course Coordinator




PRINCIPAL
Saij Institute of Pharmaceutical Sciences
Lakshminarayana (V), Maricampet (M)
Warangal (DR) - 506 301 (TS-50)


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BALAJI INSTITUTE OF PHARMACEUTICAL SCIENCES

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Phone: 050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

REPORT

Date: 01-09-2020

Name of the student: Campus Recruitment Training	Academic Year: 2019-20
Duration: 12-08-2020 to 31-08-2020	Duration in Hrs: 30Hrs

Resource person's name:

Dr.G. Dalapathi M.Pharm, Ph.D

Professor, Pharmaceutical Sciences

Balaji Institute of Pharmaceutical Sciences

Number of students enrolled: 60

Balaji Institute of Pharmaceutical Sciences organized a certificate programme on **Campus Recruitment Training (CRT)** for IV Year B. Pharmacy students by the resource person **Dr. G. Dalapathi** from 12-08-2020 to 31-08-2020. The comprehensive training ensures that the students can handle the entire recruitment process with panache irrespective of the company that comes onto the campus or not. They will grab those coveted job offers from top Pharma and Non-Pharma companies. The students participated passionately throughout the program and were able to understand the following objects and learning outcomes.

Objectives:

- To impart techniques for mathematics to improve speed and accuracy.
- To improve logical thinking to solve various questions and puzzles in Reasoning.
- To conduct group discussion sessions.
- To conduct writing and information sessions.
- To provide practical training.



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✓ Job description - Job description.

✓ Selection criteria - Study Languages, Soft Skills, and Attitude etc.

✓ Selection process -

1. Job description - Organizational procedures and policies as related to how the employers process recruitment and employer preferences.

2. Job description - Documents to identify strengths, weaknesses, transferable skills, and prime characteristics.

3. Job description - Write an effective cover letter and Resume.

4. Job description - Argument and logical decision making in selecting from alternative candidates.

Group presentation & Interview

The group presentation was very useful to the students and their feedback was positive.

Course



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Date: 05-08-2020

CIRCULAR

All the students of Pharm D are hereby informed that an add on course on **Fundamentals of Pharmacy Practice**, is scheduled from **10-08-2020 to 28-08-2020**. All the students are instructed to get enrolled and attend all the classes without fail.




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Name of the course: Fundamentals of Pharmacy Practice

Duration: 10-08-2020 to 28-08-2020

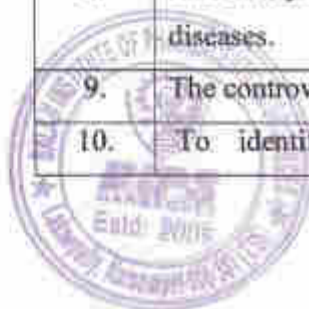
Academic Year: 2020 - 21

Curriculum Designed and developed by

S. No	Name of the Faculty	Designation	Signature
1.	Dr. M. Shiva Ramakrishna	Assistant Professor	
2.	Mrs. P. Manaswini	Assistant Professor	

Modules to be covered in the course:

Session	Topic	Duration
1.	Monitor drug therapy of patient through medication chart review and clinical review.	3 Hr
2.	Obtain medication history interview and counsel the patients.	3 Hr
3.	Identify and resolve drug related problems.	3 Hr
4.	Detect, assess and monitor adverse drug reaction.	3 Hr
5.	Interpret selected laboratory results (as monitoring parameters in therapeutics) of specific disease states.	3 Hr
6.	Retrieve, analyse, interpret and formulate drug or medicine information.	3 Hr
7.	Uses and hand on various software's used in checking Drug interactions and queries.	3 Hr
8.	The therapeutic approach to management of these diseases.	3 Hr
9.	The controversies in drug therapy.	3 Hr
10.	To identify Specific parameters relevant in	3 Hr



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	initiating drug therapy, and monitoring therapy (including alternatives, time-course of clinical and laboratory indices of therapeutic response and adverse effects).	
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Name of the course: **Fundamentals of Pharmacy Practice.**

Duration: **10-08-2020 to 28-08-2020.**

Academic Year: **2020 - 21**

Resource person details:

Dr. M. Shiva Ramakrishna, Pharm.D

Assistant Professor,

Balaji Institute Pharmaceutical Sciences.

Balaji Institute Pharmaceutical Sciences, Warangal, Telangana organized an add on program on "FUNDAMENTALS OF PHARMACY PRACTICE" for Pharm-D I to VI years By **Dr. M. Shiva Ramakrishna** from **10-08-2020 to 28-08-2020**. This program was designed to assess Develop and use strategies to apply fundamentals of pharmacy practice in present society. A total of 28 students participated in this training program. All the students actively participated. Upon completion of the program the students were able to understand the following objectives and learning outcomes.

Objectives:

1. To improve medication outcomes and pharmacy practice research and education
2. To improve the quality use of medicines and health outcomes.
3. To make defend rational and ethical decisions
4. To evaluate and document interventions and outcomes
5. To assess the patient and request appropriate medications or laboratory tests
6. To educate patients through counseling & provide health screening services to public

Learning Outcomes:

1. Communicate well with patients and other health care professionals
2. Develop, implement, evaluate and modify the pharmaceutical and nutritional care plan
3. Optimize therapy using clinical information
4. Think critically and try to solve the problems related to medication and nutritional therapy
5. Continue to develop communication skills.



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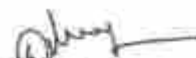
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This program was very much informative to the students and their feedback was positive about the program. The management of Balaji Institute Pharmaceutical Sciences thanked the resource persons for making the program successful.


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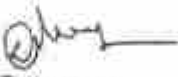
Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718 230521 (Fax).

Date: 15-09-2020

CIRCULAR

All the students of B. Pharmacy I to IV years are here by informed that an add on course on **Campus Recruitment Training** is scheduled from **18-09-2020 to 06-10-2020**. All the students are instructed to get enrolled and attend all the classes without fail.




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Name of the course: **Campus Recruitment Training**

Duration : **18-09-2020 to 06-10-2020**

Academic Year: **2020 - 21**

Modules to be covered in the course

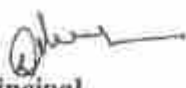
Session	Topic	Approach	Duration
1	Self-awareness & Psychometric test	Aptitude and personality assessment, suggestions for improvement.	2 Hr
2	Industry Expectations & Career Planning	Academics and Industry - Current Scenario, Gaps, A few Myths, Industry Expectations on Skill base.	2 Hr
3	Communicating Professional; In an Interview.	Recognize the importance of Body language. And manage Body language for success in an Interview.	3 Hr
4	JAM	Practice Session.	2 Hr
5	Grooming and Etiquette	Identify the importance of appropriate dress sense and grooming in an Interview.	2 Hr
6	Group Discussions	Know the importance of GD for final placements.	2 Hr
7	MOCK GD	Practice Session.	2 Hr
8	Resume Writing	Customization of Resume to the candidate.	2 Hr
9	Interview concepts	Elaborate on the interview concepts.	2 Hr
10	MOCK Interview (Personal)	Practice Session.	2 Hr
11	Interviews : Personal	We discuss introducing self and more about self in Personal Interviews.	2 Hr
12	Interviews : H R	Different questions asked by HR and how to give answers for them.	2 Hr
13	Interviews : Telephonic	Telephone Etiquette.	2 Hr
14	Job Interviews & Video Mirroring	Mock interviews can be conducted here to give practical exposure to students.	2 Hr



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15	Personality Assessment Round	Conducting SWOT Analysis and make Students to realize how to bring the Interviewer to students comfortable zone.	2 Hr
Total Duration (in Hrs)			30 Hrs


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REPORT

Date: 07-10-2020

Name of the course: Campus Recruitment Training	Academic Year: 2020-21
Duration of Course: From 18-09-2020 to 06-10-2020	Duration in Hrs: 30Hrs

Resource person details:

Dr.G. Dalapathi, M.Pharm, Ph.D

Professor, Pharmaceutics.

Balaji Institute of Pharmaceutical Sciences

Number of students attended: 60

Balaji Institute of Pharmaceutical Sciences organized a certificate programme on **Campus Recruitment Training (CRT)** for I to IV Year B. Pharmacy students by the resource person **Dr. G. Dalapathi** from **18-09-2020 to 06-10-2020**. The comprehensive training ensures that the students can handle the recruitment process with panache irrespective of the company that comes onto the campus or out of it, and grab those coveted job offers from top Pharma and Non-Pharma companies. The students participated passionately throughout the program and were able to understand the following objects and learning outcomes.

Objectives:

- Unique short techniques for mathematics to improve speed and accuracy.
- Improve logical thinking to solve various questions and puzzles in Reasoning.
- Mock Group Discussion sessions
- Resume making and information Sessions.
- Approach oriented Training
- Interactive Methodology.
- Grooming Body Languages, Soft Skills, and Attitude etc.

Learning outcomes:




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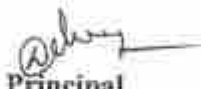
1. Understand organizational procedures and policies as related to how the employers process for campus recruitment and employer preferences.
2. Use self-assessments to identify strengths, weaknesses, transferable skills, and prime marketable characteristics.
3. Organize and write an effective cover letter and Resume.
4. Exercise judgment and logical decision making in selecting from alternative techniques for.

Group Discussion & Interview:

This course was very useful to the students and their feedback was positive.


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Date: 20-10-2020

CIRCULAR

It is to inform to all the students of Pharmacy I to IV years that a certification work on **"IR Spectroscopy and Data Interpretation"** is scheduled from: 26/10/20 to 12/11/20. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.




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DETAILED SESSION PLAN

Name of the course: IR Spectroscopy and Data Interpretation

Duration: From 26/10/20 to 12/11/20

Academic Year: 2020-21.

Curriculum Designed and developed by

S. No	Name of the Faculty	Designation	Signature
1	Mr. M. Narsingham	Assoc. Professor	
2	Mrs M. Manasa	Assistant Professor	

Modules to be covered in the course

Session	Topic	Duration
1	Introduction	1 Hr
2	The Origins of the Infrared Spectrum	1 Hr
3	Spectral Interpretation by Application of Vibrational Group Frequencies	2 Hr
4	The Hydrocarbon Species and Molecular Backbone	2 Hr
5	Simple Functional Groups	2 Hr
6	The Carbonyl Group	2 Hr
7	Other Functional Groups Associated with Hetero atoms	2 Hr
8	Simple Inorganics	2 Hr
9	The Practical Situation - Obtaining the Spectrum and Interpreting the Results	2 Hr
10	Sample History	2 Hr
11	Physical Characteristics of the Sample	2 Hr
12	The Chemistry of the Sample	2 Hr
13	The Infrared Sampling Method	2 Hr
14	An Overview to Infrared Spectral Interpretation	2 Hr

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15	Some Simple Rules and Guidelines -A Quick Diagnostic Assessment of an Infrared Spectrum	3 Hr
Total Duration (in Hrs)		30 Hrs


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REPORT

Date: 13-11-2020

Name of the course: IR Spectroscopy and Data Interpretation	Academic Year: 2020-21
Duration of Course: From 26/10/20 to 12/11/20	Duration in Hrs: 30 Hrs

Resource person details:

Mr. M. Narsingham, M.Pharm.

Associate Professor, Dept. of Pharm. Analysis

Balaji Institute of Pharmaceutical Sciences.

Number of students attended: **62**

Balaji Institute of Pharmaceutical Sciences, organized a certificate programme on **IR Spectroscopy and Data Interpretation (IR)** for I to IV Year B. Pharmacy students by the resource person **Mr. M. Narsingham** from 26/10/20 to 12/11/20. The comprehensive training ensures that the students can acquire the knowledge of IR Spectroscopy and Data Interpretation process. This Knowledge will help the students to get recruit in Quality Control / Quality Assurance departments of Pharmaceutical Industries. The students participated passionately throughout the program and were able to understand the following objectives and learning outcomes.

Objectives:

- To understand the development of analytical methods by using Spectroscopic Methods
- To understand the importance of structural elucidation studies.
- To learn about the system suitability parameters and their significance.
- To become aware of method of interpretation of Analytical Spectroscopy.

Learning outcomes:

- Logical view on how to develop Spectroscopic methods.
- Key factors affecting infrared spectroscopy and functional group analysis
- Knowledge about functional groups identification and spectra interpretation



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Totally 60 students participated in this training. All the students enthusiastically participated in the program. The program was very much valuable to them and their feedback was encouraging about the program.


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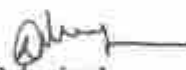
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Date: 06-01-2021

CIRCULAR

It is to inform to all the students of Pharmacy I to IV years that a certification work on "CPCSEA GUIDELINES and EXPERIMENTAL PHARMACOLOGY" is scheduled from: 16/01/21 to 04/02/21. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.




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Name of the course: CPCSEA GUIDELINES and EXPERIMENTAL PHARMACOLOGY.

Duration: 30hours

Academic Year: 2020 – 21

Curriculum Designed and developed by

S.No	Name of the faculty	Designation	Signature
1.	Mr. J. Nagaraju	Associate professor	
2.	Mr. P. Aravind	Assistant professor	

Modules to be covered in the course

S. No	Topic	Duration
1.	Laboratory Animals.	4 hrs
2.	CPCSEA Guidelines for maintenance, breeding and conduct of Experiments	3 hrs
3.	OECD Guidelines for toxicity studies	3 hrs
4.	Preclinical Screening Models for CVS activity	2+2 hrs
5.	Preclinical Screening Models for CNS activity.	2+2 hrs
6.	Preclinical Screening Models for ANS activity	2+2 hrs
7.	Bioassays	2+2 hrs
8.	Research Methodology and Biostatistics	2+2 hrs


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Name of the course: CPCSEA GUIDELINES and EXPERIMENTAL PHARMACOLOGY.

Duration: 16/01/21 to 04/02/21

Academic Year: 2020 - 21

Resource person details:

Mr. J. Nagaraju, M.Pharm,

Associate Professor, Dept of Pharmacology

Balaji Institute of Pharmaceutical Sciences

CPCSEA Guidelines and Experimental Pharmacology is a course offered in B. Pharm I to VIII semester Program at Balaji Institute of Pharmaceutical Sciences, Warangal. This course is designed by **Mr. J. Nagaraju**, to impart knowledge of preclinical studies in experimental pharmacology to conduct experiments. The future prospects for a pharmacologist may be in academics, pharmaceutical industry/clinical research organization, research institution and in regulatory bodies. Accordingly, a graduate and post-graduate student in Pharmacology should be competent to meet the job requirements at all these places.

Objectives:

1. To impart the basic knowledge of preclinical studies
2. To design and conduct experiments in Pharmacology.

Learning Outcomes:

1. Appreciate the applications of various commonly used laboratory animals
2. Demonstrate the various screening methods used in preclinical research
3. Execute a research hypothesis independently

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Date: 30-02-2021

CIRCULAR

It is to inform to all the students of Pharmacy I to IV years that a certification work on “: **Pharmacokinetic calculation**” is scheduled from **09/03/21 to 25/03/21**. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.



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Contact: +91 9866050044 (Office), +91 986652412 (Principal), +91 8718-230521 (Fax)

Name of the course: Pharmacokinetic calculation.

Duration: 30 hours

Academic Year: 2020 - 21

Curriculum Designed and developed by

S.No	Name of the faculty	Designation	Signature
1	Dr. G. Dhalapathi.	Professor	
2	Mr. T. Anudeep.	Assistant professor	

Modules to be covered in the course

S. No	Topic	Duration
1	Describe the concepts important for understanding and predicting the relationship between the physicochemical properties of the drug, the drug's fate in the body after its administration as a dosage form and the resulting onset, duration, and intensity of drug action.	2hrs
2	Effects of fundamental physicochemical properties on the biopharmaceutical behavior of drugs and dosage forms in the body Drug Absorption: Gastrointestinal, percutaneous, and rectal kinetics and factors affecting drug absorption. Absorption kinetics- absorption rate constant determination	2 hrs
3	Elimination of drugs: Concept of renal clearance and excretion of drugs - biological half- life, area under curve.	2 hrs
4	Bioavailability of drug products: Bioavailability tests. Bioequivalence. Compartment models and relevant pharmacokinetic parameters.	2 hrs
5	Graphing PK Data on Semi-log Graph Paper Writing Differential Equations, Calculating AUC (Area under the Curve) using the Trapezoidal Rule.	3 hrs
6	Pharmacokinetic Introduction: An Introduction to Pharmacokinetics, Complex Interactions Drug Transport, One, Two and Three Compartment Models.	3 hrs
7	IV Bolus Dose - One Compartment Absorption and Elimination, IV Bolus Two Compartment Model, Two Compartment Model Drug Effect versus Time, Drug Product Performance Parameters.	3 hrs
8	A(absorption) D(distribution), M(metabolism) E(excretion), Routes of Drug Administration, Tablet Dissolution, Absorption versus Particle Size, Absorption of Different Salt Forms, Drug Effect and Absorption	5 hrs
9	Effect of Absorption Rate Constant, Distribution, ADME, Drug Elimination, Elimination and Multiple Dose, Dosing Kanamycin, Renal Disease and Drug Elimination	3 hrs



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10	Absorption and First-Pass Effect Aspirin Elimination, Multiphasic Drug Elimination, Tissue Concentration versus Time, Distribution Individualized Dosage Regimen.	3 hrs
11	Pharmacokinetic calculations- usage of software for mechanism of drug release with in vitro and in vivo data.	4 hrs


Course Coordinator




Principal

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BALAJI INSTITUTE OF PHARMACEUTICAL SCIENCES

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Laknepally (V) Narsampet (M) Warangal Rural (Dist) Telangana State 506331

Contact: +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: Pharmacokinetic Calculations.

Duration: 09/03/21 to 25/03/21

Academic Year: 2020 - 21

Resource person details:

Dr. G. Dhalapathi, M.Pharm, Ph.D

Professor, Dept of Pharmaceutics

Balaji Institute of Pharmaceutical Sciences.

Balaji Institute of Pharmaceutical Sciences, Hyderabad organized an add on program on **Pharmacokinetic Calculations** for M. Pharmacy students of Pharmaceutics department by **Dr. G. Dhalapathi** from **09/03/21 to 25/03/21**. This program was designed to develop knowledge on pharmaceutical dosage forms and optimization techniques. Totally 24 students are participated in this training program. All the students are actively participated. Upon completion of program the students were able to understand the following objectives and learning outcomes.

Objectives:

- Understand the pharmacokinetics of medicine in the body.
- Illuminates the interrelationship among preparation, biology and drug treatment.
- Summarize the complexities involved in the general application of pharmacokinetic principles to special populations.
- Outline the basic principles of non-linear kinetics.
- Determine the kinetic parameters using software.

Learning Outcomes:

- Define the common pharmacokinetic terms and explain their applications.
- Discuss the major processes and factors involved in drug absorption, distribution, metabolism and elimination.
- State the concept of bioavailability, bioequivalence and calculate these two pharmacokinetic parameters.

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- Apply the relationship between volume of distribution, clearance and elimination half life.

This program was very much informative to students and their feedback was positive about the program.

Course Coordinator



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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Date: 09-09-2019

CIRCULAR

All the students of B. Pharmacy I to IV years and Pharm D students are here by informed that an add on course on Scientific approach to Formulation development and Evaluation methods. is scheduled from 16-09-19 to 03-10-19. All the students are instructed to get enrolled and attend all the classes without fail.

Principal

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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: **Scientific approach to Formulation development and Evaluation methods.**

Duration: 16-09-19 to 03-10-19

Academic Year: 2019-20

Curriculum Designed and developed by

S. No	Name of the Faculty	Designation	Signature
1.	Mr. Dr. G. Dhalapathi	Professor	
2.	Mrs. G. Priyanka	Assistant Professor	
3.	Mr. G. Maharshi	Assistant Professor	

Modules to be covered in the course

Session	Topic	Duration
1.	Preformulation studies: Goals of preformulation, preformulation parameters, methodology, solid state manipulation and characterization, solubility and partition coefficient, drug-excipient compatibility, intrinsic dissolution.	3 Hr
2.	Advances in Pharmaceutical excipients. Excipients selection for capsules, tablets, suspensions and emulsions.	3 Hr
3.	Packaging development - selection of primary and secondary packaging materials and testing.	3 Hr
4.	Advances in materials, material handling, granulation equipments and granulation technologies; process automation. Processing problems in tablet Quality Control of tablets: apparatus, methods, graphical presentations, official and unofficial tests.	3 Hr
5.	Materials used for packaging of pharmaceutical products, Factors influencing choice of containers Legal and official requirements, Stability aspects: Quality control tests of packaging materials	3 Hr
6.	Formulation development of soft and hard gelatin capsules :	3 Hr



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	Introduction, Manufacturing methods, filling equipment and filling operations, formulations, finishing, special techniques	
7.	The nature of the capsule shell and capsule, advances in capsule manufacture, processing and control including pharmaceutical aspects, physical stability and packaging	3 Hr
8.	Formula and process optimization statistical design-response surface method, contour diagrams, factorial design, partial factorial design, simplex methods, mixture designs.	3 Hr
9.	Placket Burhan method, Box Benken method and applications in pharmaceutical formulations.	3 Hr
10.	Pharmaceutical unit operations: A detail study involving machinery and theory of pharmaceutical unit operations like solid orals: Wet granulation- Rapid mixer granulator and Top spray granulation, Dry granulation- Slugging and roller compaction, drying, milling, blending, filtration and sterilization. Forms and maintenance of records in product development department	3 Hr


Course Coordinator


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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: **Scientific approach to Formulation development and Evaluation methods.**

Duration: **16-09-19 to 03-10-19**

Academic Year: **2019-20**

Resource Person details:

Dr.G. Dhalapathi, M.Pharm, Ph.D

Professor, Dept.of Pharmaceutics.

Balaji Institute of Pharmaceutical Sciences

Balaji Institute of Pharmaceutical Sciences, Warangal, organized an add-on program on **Scientific approach to Formulation development and Evaluation methods** for M. Pharmacy students of Pharmaceutics department by Mr. Dr. G. Dhalapathi from **18-09-20 to 06-10-23**. This program was designed to develop knowledge on pharmaceutical dosage forms and optimization techniques. Totally 60 students are participated in this training program. All the students are actively participated. Upon completion of program the students were able to understand the following objectives and learning outcomes.

Objectives:

- Understand the criteria for selection of drugs and polymers for development of dosage forms, their formulation and evaluation.
- To know the various approaches for development of dosage forms.
- Understand the new technologies used in industries for development of dosage forms.
- Understand the importance of packaging materials.
- To know the stability aspects of packaging materials and dosage forms.

Learning Outcomes:

- Know the formulation additives of dosage forms.
- Formulation of dosage forms and quality control tests.
- Know the optimization techniques.

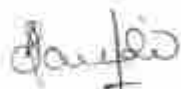


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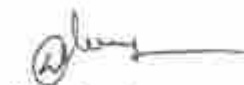
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- Know various techniques used in pharmaceutical industries.

This program was very much informative to students and their feedback was positive about the program. The management and Principal of Balaji Institute of Pharmaceutical Sciences thanked to resource person and participants for making program successful.



Course Coordinator

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Contact : +91 9866050044 (Office), +91 986652412 (Principal), +91 8718-230521 (Fax)

Date: 09-10-2019

CIRCULAR

All the students of B. Pharmacy IV years are hereby informed that an add on course on "Scientific approach to analytical methods development and Validation activities" is scheduled from 14-10-2019 to 30-10-2019. All the students are instructed to get enrolled and attend all the classes without fail.



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DETAILED SESSION PLAN

Name of the course: Scientific approach to analytical methods development and Validation activities.

Duration: From 14-10-2019 to 30-10-2019.

Academic Year: 2019-20

Curriculum Designed and developed by

S. No	Name of the Faculty	Designation	Signature
1	B. Khaggeshwar	Associate Professor	B. Khaggeshwar
2.	B. Mohan	Assistant Professor	B. Mohan

Modules to be covered in the course

Session	TITLE	Duration
1.	ICH Guidelines: • Overview of ICH Guidelines • Stability Guidelines • GMP Guidelines for Pharmaceuticals • Nitrosamine Impurities Guidelines	2 Hr.
2.	System Suitability Parameters For Hplc Method Development • System Suitability Test • Resolution • Retention time. • Pressure. • Column efficiency and Plate Number. • Repeatability. • Tailing factor. • Signal-to-noise ratio.	2 Hr



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3.	Analytical Method Validation Parameters • Specificity • Linearity • Quantization limit • Detection limit • Range • Accuracy and Precision • Repeatability • Intermediate Precision • Reproducibility • Robustness • System Suitability Testing	2 Hr
4.	Trouble Shooting Of Hplc • Peak Shape • Retention Variation • Ghost Peaks • Column Back Pressure • Column Care	2 Hr
5.	Impurity Profiling • Introduction • Classification of impurities in API • Impurities present in formulation • Identification of impurities	2 Hr
6.	Stability Indicating Methods • Introduction • Role Of QA In SIM • General Principle • Photo stability Testing of New Drug Substances • And Products Qlb • Guidance On Stability Testing: Stability Testing Of New Drug	3 Hr



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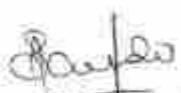
	Substances And Products • Development Of A SIM • Photo stability Studies • Introduction And Importance Of Stability-Indicating Analytical Method Development • Techniques Engaged In Literature Data For The Development Of SLAMS • Steps Involved During The Development Of • Stability-Indicating Analytical Methods (SLAMS) • Forced Degradation Studies /Stress Testing Studies • Analytical Method Validation Process	
7.	Bio-analytical Method Development And Validation • Sample Preparation • Extraction Techniques • Analytical Method Procedures • Validation	3 Hr
8.	Cleaning And Process Validation • Introduction • Back Ground • General Requirements • Evaluation of Cleaning Validation • Establishments of Limits	3 Hr
9.	Assay Testing Of Pharmaceutical Substances • Introduction • Guidelines of Specification • General Concepts	3 Hr
10.	Stability Testing Of Residual Solvents • Introduction • Types of Solvents • Testing of Solvents	2 Hr



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	• Current Issues	
PRACTICAL HOURS		
12.	RP-HPLC Method Development And Validation Of lamivudine In Pharmaceutical Dosage Forms	3 Hr
13.	Determination Of Gemcitabine in Bulk and Dosage Form	3 Hr
Total Duration (in Hrs)		30 Hrs


Course Coordinator




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REPORT

Date: 31-10-2019

Name of the course: Scientific approach to analytical methods development and validation activities	Academic Year: 2020-21
Duration of Course: From 14-10-2019 to 30-10-2019	Duration in Hrs: 30 Hrs

Resource person details:

Mr B. Khaggeshwar , M.S, Pharmaceutics

Associate Professor,

Balaji Institute of Pharmaceutical Sciences.

Number of students attended: 60

Balaji Institute of Pharmaceutical Sciences organized a certificate programme on Scientific Approach to Analytical Method Development and Validation Activities for B. Pharmacy students by **Mr B. Khaggeshwar** Department of Pharmaceutics from 10-08-2020 to 28-08-2020.

Objectives:

- To understand the development of analytical methods by using chromatographic Method
- To learn about the system suitability parameters and their significance.
- To become aware of analytical method validation parameters, ICH and FDA guidelines for method validation

Learning outcomes:

- Logical view on how to develop analytical methods.
- Key factors affecting method development and how to optimize the method.

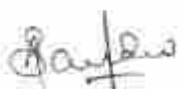


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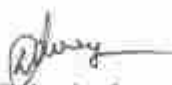
- Knowledge about performing and reporting of method validation parameters and out of trend results

Totally 60 students participated in this training. All the students enthusiastically participated in the program. The program was very much valuable to them and their feedback was encouraging about the program.


Course Coordinator






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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Date: 16-11-2019

CIRCULAR

All the students of B. Pharmacy IV years are here by informed that an add on course on "Clinical Data Management" is scheduled from 20-11-2019 to 06-12-2019. All the students are instructed to get enrolled and attend all the classes without fail.




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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: Clinical Data Management

Duration: 20-11-2019 to 06-12-2019

Academic Year: 2020 - 21

Curriculum Designed and Developed by

S.No	Name of the faculty	Designation	Signature
1.	Dr. A. Nagesh	Associate Professor	
2.	Mr. P. Aravind	Assistant Professor	

Modules to be covered in the course

S. No	Topic	Duration
1.	Introduction Clinical Data Management ,Data and Databases	3hrs
2.	Data Entry , Transcribing Data, CRF Data Tracking	3hrs
3.	Cleaning Data, Discrepancies Management, Data Management Plan.	3hrs
4.	CRF Review and source documents, Electronic data Capture.	3hrs
5.	Data Transfer, Audit trail, QA & CDM	3hrs
6.	Collection of Advance Events Data, Medical Coding	3hrs
7.	Data Acquisition and Data Closure	3hrs
8.	Study step , Managing Laboratory Data	3hrs
9.	Creating Reports, Design Consideration	3hrs
10.	Transcribing Data.	3hrs


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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: **Clinical Data Management.**

Duration: From **20-11-2019 to 06-12-2019**

Academic Year: **2019 – 20**

Resource person details:

Dr. A. Nagesh, Pharm.D

Associate Professor.

Balaji Institute of Pharmaceutical Sciences.

Balaji Institute of Pharmaceutical Sciences, Narsampet, Telangana organized an add on program on " **Clinical Data Management** " for Pharm D Students by **Dr. A. Nagesh** from **18-09-2020 to 06-10-2020**. This program was designed as a critical process in clinical research, which leads to generation of high-quality, reliable, and statistically sound data from clinical trials. A total of 60 students participated in this training program. All the students actively participated. Upon completion of the program the students were able to understand the following objectives and learning outcomes.

Objective:

1. To support the statistical analysis and its interpretation
2. To introduce the informatics process and data quality
3. To Describe data management processes
4. To Describe the role of data management in clinical research

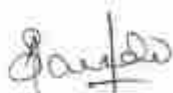
Learning Outcomes:

- Provides a global, controlled, standardized data repository
- Ensures compliance
- Accelerates clinical trial, submission, and drug launch turn-around time




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Warangal (Dt) - 506 331 (T.S)

This program was very much informative to the students and their feedback was positive about the program. The management of Balaji Institute of Pharmaceutical Sciences thanked the resource persons for making the program successful.



Course Coordinator



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Warangal (T.S.) - 506 041 (T.S.)



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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Date: 16-12-2019

CIRCULAR

All the students of B. Pharmacy and Pharm D students are hereby informed that an add on course on "Workshop on Medicinal Plants and Crude Drugs " is scheduled from 23-12-2019 to 09-01-2020. All the students are instructed to get enrolled and attend all the classes without fail.



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Contact : +91 9866050044 (Office), +91 986652412 (Principal), +91 8718-230521 (Fax)

Name of the course: **Workshop on Medicinal Plants and Crude Drugs**

Duration : **23-12-2019 to 09-01-2020**

Academic Year : **2020 – 21**

STUDENT LIST:

S.NO	HALLTICKET	NAME OF THE STUDENT
1	35120-6036	INJAMAMUL HOQUE
2	35120-6042	KATLA DIVIJENDRA CHARY
3	35120-6044	KINNERA RAKESH
4	35120-6048	LAKAVATH SANTHOSH
5	35120-6050	MALOTH CHANDRASHEKHAR
6	35120-6051	MARIKUKALA RAKESH
7	35120-6052	MASUD AKTHER BARBHUIYA
8	35120-6053	MD IMRAN KAZI
9	35120-6056	MOKIBUR RAHMAN
10	35120-6057	MONIRUL HASSAN CHOUDHURY
11	35120-6059	MUDDASIR AHMED
12	35120-6061	MUSTAFA AHMED BARBHUIYA
13	35120-6063	NELLURI SAI POOJITHA
14	35120-6064	NOZIMUL ISLAM
15	35120-6065	ORUGANTI AJAY
16	35120-6067	PARBHESH MUSARAF ALOM
17	35120-6070	RAJIBUL ISLAM
18	35119-6024	JAKARIA ALOM MOZUMDER
19	35119-6025	JANGAM HONEY JASMINE
20	35119-6026	JASHIM UDDIN LASKAR
21	35119-6027	K ANJANEYULU
22	35119-6028	KABIR HUSSAIN LASKAR
23	35119-6029	KALLAPALLY BHARGAVI
24	35119-6030	KANNEBOINA SWATHI
25	35119-6031	KAYITHA SUPRAJA
26	35119-6032	KONDAM AISHWARYA
27	35119-6033	KONDLE YASHONADH



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Warangal (Dist) - 506 331 (T-8)

28	35119-6034	L ABHILASH SINGHA
29	35119-6035	LINGALA RAVALI
30	35119-6036	MAILA RAVALI
31	35119-6037	MANGOLE JYOSHNA
32	35119-6038	MOHAMMAD MOIZ KHAN
33	35119-6039	MUTHYAM APARNA
34	35119-6040	MUTTINENI SNEHITHA
35	35119-6041	NAGABOINA ALEKHYA
36	35119-6042	NAHIM AHMED BARBHUIYA
37	35119-6043	PITTALA KAVITHA
38	35118-6015	MAISA SHIRISHA
39	35118-6018	MOHAMMAD JUNAID
40	35118-6019	NAGAMALLA KAMALTEJA
41	35118-6020	NARLAPURAM ANUSHA
42	35118-6021	NEHA SHIREEN
43	35118-6023	PANUGANTI VAISHNAVI DEVI
44	35118-6024	PILLI SRUJANA
45	35118-6025	POOJARI GOUTHAMI
46	35118-6026	PULLAMSHETTI MAHIMA BHARATHI
47	35118-6027	RONTALA THRINIKHA
48	35118-6028	SANGANI BHARATHWAJ
49	35118-6030	SURA NAVEEN
50	35118-6031	VUYYALA SAISREEJA
51	35118-6032	GADDAM SAI MADHURI
52	35118-6033	RACHAKONDA MANIKANTA
53	35117-6021	GAJAVELLI HARSHINI
54	35117-6023	HAMSA PRUDHVIRAJ
55	35117-6024	INGLI SIRI CHANDANA
56	35117-6025	JAKKULA VINUSHA
57	35117-6027	KANNA PAVITHRA
58	35117-6029	KOTHAPALLY TEJASHWINI SHARMA
59	35117-6030	MADA PREETHI
60	35117-6032	MD SHAKIR

[Signature]

Course Coordinator

[Signature]

[Signature]

Principal

PRINCIPAL

Balaji Institute of Pharmaceutical Sciences
Lakshimpally (V), Mangalagiri (M)
West Godavari District - 522 201 (A.P.)





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Contact : +91 9856050044 (Office), +91 9856552412 (Principal), +91 8718-230521 (Fax)

Name of the course: Workshop on Medicinal Plants and Crude Drugs

Duration: 23-12-2019 to 09-01-2020

Academic Year: 2020 - 21

Curriculum Designed and Developed by

S.No	Name of the faculty	Designation	Signature
1.	Mrs. M. Swapna	Assistant Professor	

Modules to be covered in the course

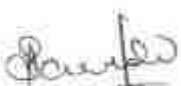
S. No.	Topic	Duration
1.	Current Global Trends and Market for Ayurvedic Medicine / Herbals Need for Quality Control and Standardization.	3hrs
2.	Morphological and Microscopically methods, Organoleptic methods for the analysis of herbal drugs, Substitution and Adulteration of Herbal Drugs / raw material	3hrs
3.	Physical and Chemical methods of analysis of herbal/ayurvedic drugs.	3hrs
4.	Spectral/Chromatographic analysis of herbal drugs (TLC/UV Spectrophotometry/ HPLC/Polarimetry etc)	3hrs
5.	Different forms of Herbal drugs: Fresh Drug, Dried Crude drug, Powdered crude drug, Extract, Standardized extract, Phytoconstituents.	3hrs
6.	Different dosage forms of herbal drugs Churna, Kadha, Vati, Tablet, Capsules, Syrup, Pills, Eyedrops, Rose water, Asava, Arishta. Tailas, A veleha, Pisthi, Generic and Patent & proprietary formulations.	3hrs



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7.	Demonstration cum practical of Organoleptic, morphological and microscopical analysis of herbal raw material	3hrs
8.	Physical methods of evaluation like ash value, extractive values, moisture determination, Swelling index, refractive index, pH, etc.	3hrs
9.	Chemical tests for Anthraquinones, Flavanoids, Carbohydrates, Proteins, steroids, Alkaloids, Coumarins, etc.	3hrs
10.	Demonstration and practical's of TLC, Column chromatography, HPLC, etc.	3hrs


Course Coordinator






Principal

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Vijaynagar, 401 301 (T.S)



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Contact: +91 9866050044 (Office), +91 986652412 (Principal), +91 8718-230521 (Fax)

Name of the course: **Workshop on Medicinal Plants and Crude Drugs**

Duration: **23-12-2019 to 09-01-2020**

Academic Year: 2020 - 21

Resource person details:

Mrs.M. Swapna, M.Pharm.

Assistant Professor,

Balaji Institute of Pharmaceutical Sciences

Balaji Institute of Pharmaceutical Sciences, Narasampet, Telangana organized an add on program on "Workshop on Medicinal Plants and Crude Drugs" for B. Pharmacy and Pharm D students by Mrs. M. Swapna from 23-12-2019 to 09-01-2020. This program was designed to inculcate the importance of natural products, herbal drugs and also practical experience on methods of analysis and interpretation. A total of 139 students participated in this training program. All the students actively participated. Upon completion of the program the students were able to understand the following objectives and learning outcomes.

Objectives:

- The main purpose of the workshop is to understand the complexity of herbal drug analysis and to find out the appropriate and scientific solution for the same.
- This will help the Ayurvedic/Herbal Industry to grow faster and gain more recognition worldwide.
- It will also help candidates to master the art of analyzing and understanding the complex structure of the ayurvedic/ herbal drugs

Learning Outcomes:

- Guidance for preparation of testing/stability testing protocol for herbal products
- The program will help in undertaking standardization/analysis and research of herbals in right direction
- Interpretation of analytical data, nature of phytoconstituents, application of spectral methods of analysis, etc.



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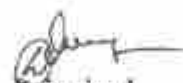
- Application of proper method of analysis
- Preparation of samples, selection of method of analysis
- Hands on experience on Organoleptic, Macroscopical, Microscopically, TLC, Spectrophotometer, HPLC, etc.

This program was very much informative and develops research-oriented approach to the students and their feedback was positive about the program. The management of Balaji Institute of Pharmaceutical Sciences thanked the resource person for making the program successful.


Course Coordinator






Principal

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Contact: +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718 230521 (Fax)

Date: 17-01-2020

CIRCULAR

All the students of B. Pharmacy students are hereby informed that an add on course on "Workshop on Analytical Instruments" is scheduled from 21-01-2020 to 06-02-2020. All the students are instructed to get enrolled and attend all the classes without fail.



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DETAILED COURSE PLAN

Name of the course: Workshop on Analytical Instruments

Duration: 21-01-2020 to 06-02-2020

Academic Year: 2019-20

Curriculum Designed and Developed by

S.No	Name of the faculty	Designation	Signature
1.	Dr. T. Manish Kumar	Professor	
2.	Mr. M. Narasingham	Associate Professor	

Modules to be covered in the course

S. No	Topic	Approach	Duration
1.	Chromatographic methods	• HPLC • GC-MS • LC-MS • HPTLC	10hrs
2.	Spectroscopic Methods	• UV-Visible • Fluorimetry • FTIR • NMR • ESR • MASS • Atomic Spectroscopy	12hrs
3.	Structural Methods	• XRD • SEM • TEM	6hrs
4.	Thermal Methods	• DTA • DSC • TGA	6hrs



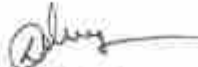
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5.	Particle and Surface Analysis	- Particle size - Powder bulk characterization	2hrs
Total Duration (in Hrs)			36 Hrs


 Course Coordinator




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REPORT

Date: 07-02-2020

Name of the course: Workshop on Analytical Instruments	Academic Year: 2019-20
Duration of Course: From 21-01-2020 to 06-02-2020	Duration in Hrs: 30 Hrs

Resource person details:

Dr T. Manish Kumar, M.Pharm, Ph.D

Professor, Dept. of Pharm. Analysis

Balaji Institute of Pharmaceutical Sciences

Number of students attended: 60

Balaji Institute of Pharmaceutical Sciences organized a certificate programme on **Workshop on Analytical Instruments** for III Year M. Pharmacy students by the resource person **Dr T. Manish Kumar**, Professor, department of Pharmaceutical Analysis from **21-01-2020 to 06-02-2020**. This program covered the following objectives and learning outcomes.

Objectives:

The objective of the present workshop is to provide knowledge for students on various analytical methods.

This workshop cum training Programme intends to educate and to provide virtual demonstration of the commonly used analytical instruments i.e. Fourier Transform- Infrared Spectroscopy (FT-IR), Gas chromatography (GC), GC-Mass Spectroscopy (GC-MS), High Performance Liquid Chromatography (HPLC), Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM) to the students.

Learning outcomes:

- 1) The fundamental principles of instrumental measurements.

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2) Applications of these principles to specific types of chemical measurements (type of samples analyzed, figures of merit, strengths and limitations).

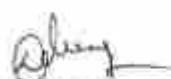
3) Examples of modern instrumentation.

4) The use of instruments to solve real analytical problems.

Totally 49 students participated in this training. All the students enthusiastically participated in the program. The program was very much valuable to them and their feedback was encouraging about the program. The management and Principal of Balaji Institute of Pharmaceutical Sciences thanked the resource person **Dr T. Manish Kumar** for making the program successful.


Course Coordinator




Principal



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Date: 15-02-2020

CIRCULAR

All the students of B. Pharmacy students are hereby informed that an add on course on "Fundamentals of Pharmacy Practice" is scheduled from 24-02-2020 to 12-03-2020. All the students are instructed to get enrolled and attend all the classes without fail.



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Name of the course: Fundamentals of Pharmacy Practice

Duration: From 24-02-2020 to 12-03-2020

Academic Year: 2019 - 20

S. No	Name of the Faculty	Designation	Signature
1.	Dr. A. Nagesh	Associate Professor	
2.	Dr. P. Manaswini	Assistant Professor	

Modules to be covered in the course

Session	Topic	Duration
1.	Monitor drug therapy of patient through medication chart review and clinical review.	3 Hr
2.	Obtain medication history interview and counsel the patients.	3 Hr
3.	Identify and resolve drug related problems.	3 Hr
4.	Detect, assess and monitor adverse drug reaction.	3 Hr
5.	Interpret selected laboratory results (as monitoring parameters in therapeutics) of specific disease states.	3 Hr
6.	Retrieve, analyse, interpret and formulate drug or medicine information.	3 Hr
7.	Uses and hand on various software's used in checking Drug interactions and queries.	3 Hr
8.	The therapeutic approach to management of these diseases.	3 Hr
9.	The controversies in drug therapy.	3 Hr
10.	To identify Specific parameters relevant in initiating drug therapy, and monitoring therapy (including alternatives, time-course of clinical and laboratory indices of therapeutic response and adverse effects).	3 Hr

Course Coordinator

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Phone: +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the subject: **Fundamentals of Pharmacy Practice.**

Duration: **24-02-2020 to 12-03-2020.**

Academic Year: **2019-20.**

Resource person details:

Dr.A. Nagesh, Pharm.D

Associate Professor,

Balaji Institute of Pharmaceutical Sciences.

Balaji Institute of Pharmaceutical Sciences, Telangana organized an add on program on "FUNDAMENTALS OF PHARMACY PRACTICE" for Pharm-D I year to IV year By **Dr. A. Nagesh** from **24-02-2020 to 12-03-2020**. This program was designed to assess Develop and use strategies to apply fundamentals of pharmacy practice in present society. A total of **60** students participated in this training program. All the students actively participated. Upon completion of the program the students were able to understand the following objectives and learning outcomes.

Objectives:

1. To improve medication outcomes and pharmacy practice research and education
2. To improve the quality use of medicines and health outcomes.
3. To make defend rational and ethical decisions
4. To evaluate and document interventions and outcomes
5. To assess the patient and request appropriate medications or laboratory tests
6. To educate patients through counseling & provide health screening services to public

Learning Outcomes:

1. Communicate well with patients and other health care professionals



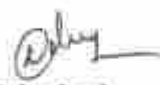
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2. Develop, implement, evaluate and modify the pharmaceutical and nutritional care plan
3. Optimize therapy using clinical information
4. Think critically and try to solve the problems related to medication and nutritional therapy
5. Continue to develop communication skills.

This program was very much informative to the students and their feedback was positive about the program. The management of Balaji Institute of Pharmaceutical Sciences thanked the resource persons for making the program successful.


Course Coordinator




Principal



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Tel: +91 866650044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Date: 28-03-2020

CIRCULAR

All the students of B.Pharmacy students are hereby informed that an add on course on "Research Design Execution and Publication" is scheduled from 06-04-2020 to 22-04-2020. All the students are instructed to get enrolled and attend all the classes without fail.



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Mobile : 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: Research Design Execution and Publication

Duration: 06-03-2020 to 22-04-2020

Academic Year: 2019-20

Curriculum Designed and Developed by

S.No	Name of the faculty	Designation	Signature
1.	Mr. N. Raja	Associate Professor	
2.	Mr. G. Venkataramana	Associate Professor	

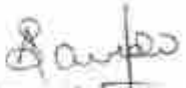
Modules to be covered in the course

S. No	Topic	Duration
1.	Introduction of Research, Research designs, Biomedical research Evaluate clinical study Types of evidences Substance to be used in study Modern day advancements	3hrs
2.	Systematic reviews of trials and other studies Interpreting and understanding meta-analysis graph	3hrs
3.	Designing, evaluating and reporting clinical research	3hrs
4.	Developing research question Components of research question Literature search	3hrs
5.	Scientific literature search Literature review Scientific databases	3hrs
6.	Levels of evidences	3hrs
7.	Types of analysis in research Importance according to study design	3hrs
8.	Acceptance criteria Rejection criteria	3hrs



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9.	Publication databases Type of search	3hrs
10.	Journal club Types of publications and the impact	3hrs


Course Coordinator




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Name of the course: Research Design Execution and Publication

Duration: 06-04-2020 to 22-04-2020

Academic Year: 2019-20

Resource person details:

Mr. N . Raja, M.Pharm, (Ph.D)

Associate Professor:

Balaji Institute of Pharmaceutical Sciences.

Balaji Institute of Pharmaceutical Sciences, Warangal, Telangana organized an add on program on "Research Design Execution and Publication" for M. Pharmacy 1st year year by Mr. N . Raja from 06-04-2020 to 22-04-2020. This program was designed to orient the students to develop research design, study modules, statistical analysis and publications. A total of 60 students participated in this training program. All the students actively participated. Upon completion of the program the students were able to understand the following objectives and learning outcomes.

Objectives:

1. Analyze, interpret and develop research designs, question and analysis
2. Assess the study design, apply and interpret outcomes of study
3. Discuss the rationale for research study design
4. Describe and analyse publication, evidence based literature
5. Types of evidence based literature
6. Developing research protocol, review and publication

Learning Outcomes:

1. Learn study and research designs, questions




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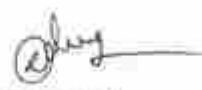
2. Developing effective study designs, Research questions, literature based study
3. Design and synthesize Evidence based study
4. Assess, analyze and interpret evidence based study.
5. Develop critical publication sceptical
6. Analyze the study based publications

This program was very much informative and develops research oriented approach to the students and their feedback was positive about the program. The management of Balaji Institute of Pharmaceutical Sciences thanked the resource persons for making the program successful.


Course Coordinator






Principal

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Warrington, India
Warrington, India



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Date: 15-06-2020

CIRCULAR

All the students of B.Pharmacy I to IV years are here by informed that an add on course on IPR, Patent drafting and Processing is scheduled from 22-06-2020 to 08-07-2020. All the students are requested to get enrolled and attend all the classes without fail.



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Plot No. 20 Narsampet (M) Warangal Rural (Dist) Telangana State 506331

Ph: 606330044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: IP: Patent drafting, filling and Processing

Duration: 30 days

Academic Year: 2023-24

Curriculum Designed and Developed by

S.No	Name of the faculty	Designation	Signature
1.	Dr. M. S. Kumar	Professor	

Modules to be covered in the course

S. No	Topic	Duration
1.	Overview of Intellectual Property Rights	5 hrs
2.	Patent	5 hrs
3.	Copyright	5 hrs
4.	Trademark	5 hrs
5.	Geographical Indication	5 hrs
6.	Biological Indication	5 hrs

Course Coordinator



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Name of the course: **IPR, Patent drafting, filling and Processing**

Duration: **02-06-2020 to 08-07-2020**

Academic Year: **2019-20**

Resource person details:

Dr T. Manish Kumar M.Pharm, Ph.D

Associate Professor

Balaji Institute of Pharmaceutical Sciences.

IPR, Patent drafting, filling and Processing is a course offered in M. Pharm Programme at Balaji Institute of Pharmaceutical Sciences, Warangal. This course is designed to impart knowledge of intellectual property rights and patent procedures. The future prospects of this course are useful in academics, pharmaceutical industry, and research institution and in regulatory bodies. Accordingly, a graduate and post-graduate student should be competent to meet the job requirements at all these places.

Objectives:

1. To introduce fundamental aspects of Intellectual property Rights to students who are going to play a major role in development and management of innovative projects in industries.
2. To disseminate knowledge on patents, patent regime in India and abroad and registration aspects
3. To disseminate knowledge on copyrights and its related rights and registration aspects
4. To disseminate knowledge on trademarks and registration aspects

Learning Outcomes:

1. Appreciate the knowledge of Intellectual property and copyright

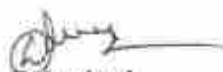


2. Develop and design new projects with innovative research ideas

3. Guide others on IPRs and Patents


Course Coordinator




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CIRCULAR

Date: 26.11.2018

It is to inform to all the students of B. Pharmacy and Pharm D all years that, a certificate program on "Extraction, Fractionation and screening of *Strychnos potatorum* seeds." is scheduled from 30th November to 17th December 2018. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.



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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

ABOUT PROGRAM:

Type of Course:	Certificate Course
Title of the Course:	Extraction, Fractionation and Screening of <i>Strychnos potatorum</i> seed powder
Duration of the Course:	15 DAYS
Timings:	4PM – 6PM
Dates:	30 th November to 17 th December 2018
Topics Covered:	

- Collection of seeds and procurement of grounded powder
- Extration of sample powder according to solubility by successive solvent extraction
- Extration of sample powder with non-polar solvents
- Extration of sample powder with polar solvents
- Preliminary phytochemical screening of concentrated extracts
- Fractionation of methanolic extract by column chromatography
- Collection and separation of active components by simultaneous TLC analysis
- Screening for antimicrobial activity of Strychnine

Schedule:

Days	Topics Covered
Day 1	Collection of seeds • Seeds collection • Drying under direct sunlight
Day 2	procurement of grounded powder • Prepare grounded powder by using big size grinders • Drying under shade

Day 3	Extraction process • Successive solvent extraction by Hot percolation method with Soxhlet apparatus • Firstly Extraction with n-hexane for 6 hrs • Collection and concentration of extract
Day 4	• Extraction by non-polar solvents ether, chloroform and methanol • Concentration of ether, chloroform and methanol extracts
Day 5	Preliminary phytochemical screening of extracts • Chemical tests for identification of alkaloids in different extracts.
Day 6	Column chromatography • Column chromatography of methanolic extract for fractionation of alkaloids
Day 7	• Checking of mobile phases suitability for fractionation of alkaloids
Day 8	• Fractionation of alkaloids by using decreasing order of quantity of inorganic solvents and increasing order of polar solvents. • Simultaneous analysis of components by TLC for every 2 to 3 ml of fraction.
Day 10	• Isolation of every alkaloid by TLC analysis
Day 11	Screening of individual alkaloid for antimicrobial activity • Study the strychnine by using four different s microbial strains
Day 12	• Antimicrobial study was performed for Strychnine from <i>Strychnos potatorum</i>.

Instructors: Mrs. Kavitha Perala, Asso. Prof. in Pharmacognosy.

Mrs. Swapna, Asst. Prof. in Pharmacognosy.

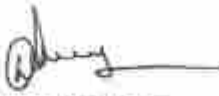
Eligibility:

- Students from B. Pharm (1st – 4th years), Pharm D and M. Pharmacy can join this Certification Course.
- Those who have pre-requisite knowledge and have interest.

Fee: Rs. 2000.

Benefits of the Course: Exaction and isolation procedures gives the knowledge about which solvents have which nature on identification of unknown components based on solubility. This experiment gives the idea and knowledge about chromatography application in isolation and identification of individual component from extracts.


COURSE COORDINATOR


PRINCIPAL




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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

REPORT

Name of the course: **Extraction, Fractionation and screening of *Strychnos potatorum* seeds.**

Duration: **30th November to 17th December 2018**

Academic Year: 2018 - 19

Resource person details:

Mrs. P. Kavitha, M. Pharm, (Ph.D)

Professor, Dept of Pharmacognosy

Balaji Institute of Pharmaceutical Sciences,

Balaji Institute of Pharmaceutical Sciences, Laknepally, Narsampet, Telangana organized an add on program on "Research Design Execution and Publication" for B. Pharmacy and Pharm D Students by Mrs. P. Kavitha from **30th November to 17th December 2018**. This program was designed to orient the students to develop Extraction and fractionation methods, isolation by analytical methods and Screening method of Antidiabetic activity. A total of 60 students participated in this training program. All the students actively participated. Upon completion of the program the students were able to understand the following objectives and learning outcomes.

Prerequisites:

- Basics on exaction of crude drugs
- Eagerness to learn Chromatography techniques.

Benefits of the Course:

Exaction and isolation procedures gives the knowledge about which solvents have which nature on identification of unknown components based on solubility.

This experiment gives the idea and knowledge about chromatography application in isolation and identification of individual component from extracts.

This program was very much informative and develops Analytical oriented approach to the students and their feedback was positive about the program. The management of Balaji Institute of Pharmaceutical Sciences thanked the resource persons for making the program successful.


Course Coordinator


Principal




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BALAJI INSTITUTE OF PHARMACEUTICAL SCIENCES

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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

CIRCULAR

Date: 22.12.2018

It is to inform to all the students of B. Pharmacy and Pharm D all years that, a certificate program on “**Extraction and identification of Nitidine from the barks of *Fagara chalybe***” is scheduled from 26th December 2018 to 11th January 2019. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.



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(Akropally (V) Narsampet (M) Warangal Rural (Dist) Telangana State AC6ET)
Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Type of Course: Certificate Course

Title of the Course: Extraction and identification of Nitidine, (Benzophenanthridine alkaloid) from the barks of *Fagara chalybea*.

Duration of the Course: 15 days

Timings: 4PM – 6PM

Dates: 26th December 2018 to 11th January 2019

Topics Covered:

- Introduction on extraction methods and isolation of phytochemicals by spectroscopic methods
- Introduction on HPLC instrument.
- Procurement of plants, chemicals and standards.
- Extraction of plant material with suitable solvents
- Preparation of sample and standard dilutions and selection of mobile phase.
- HPLC analysis of samples and standard of nitidine.
- Validation of Nitidine.

Schedule:

Days	Topics Covered
Day 1	Introduction on extraction methods and isolation of phytochemicals by spectroscopic methods • Various extraction methods • Detail explanation on Spectroscopic methods for isolation of components.
Day 2	• Scrutinization of plants • Selection of plant <i>Fagara chalybea</i> • Introduction on plant
Day 3	Selection of extracton method • Checking and finalise the suitability of solvents for extraction of

	phytochemicals,
Day 4	Extraction of plant bark powder with methanol by hot percolation method
Day 5	Extraction with methanol repeatedly
Day 6	- Continuation of extraction process - Filtration and concentration of residue - TLC of extract
Day 7	- Preparation of sample and standard dilutions - Selection of mobile phases.
Day 8	HPLC analysis of sample by different mobile phases by trial and error method
Day 10	HPLC analysis of methanolic extract by selective mobile phase
Day 11	HPLC analysis of standard
Day 12	Final calculation and report of nitidine isolation

Instructors: Mr.Dr. J. Ravi., Prof. in Quality assurance.

Mr. P.Siddhartha, Asso. Prof in Pharmaceutical Chemistry

Eligibility:

Students from B.Pharm can join this Certification Course.

Anyone who have interest in this field and have pre-requisite knowledge.

Prerequisites:

Basics of Spectroscopy

Eagerness to learn new innovative things

About the Course: Spectroscopy is a advanced technique to isolation and identification of individual component from mixture.



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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: Extraction and identification of Nitidine from the barks of *Fagara chalybea*

Duration: 30 Hrs

Academic Year: 2018 - 19

Resource Person details:

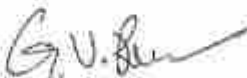
Dr. J. Ravi, M.Pharm, Ph.D

Professor, Dept. of Quality assurance,

Balaji Institute of Pharmaceutical Sciences

Balaji Institute of Pharmaceutical Sciences, Warangal, organized an add on program on **Extraction and identification of Nitidine from the barks of *Fagara chalybea*** for Pharmacy students and Pharm D by Dr. J. Ravi from 26th December 2018 to 11th January 2019. This program was designed to develop knowledge on Chromatographic techniques. Totally 60 students are participated in this training program. All the students are actively participated. Upon completion of program the students were able to understand concepts of basics, working procedure and isolation of compounds from TLC, HPLC methods.

This program was very much informative to students and their feedback was positive about the program. The management and Principal of Balaji Institute of Pharmaceutical Sciences thanked to resource person and participants for making program successful.


Course Coordinator


Principal




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CIRCULAR

Date: 17.01.2019

It is to inform to all the students of B. Pharmacy and Pharm D all years that, a certificate program on "**Biological Screening of Anti-Diabetic Drugs by in vivo and in vitro models**" is scheduled from 21st January to 07th February 2019. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.



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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

ABOUT COURSE

Type of Course:

Certificate Course

Title of the Course:

Biological Screening of Anti-Diabetic Drugs by in vivo and in vitro models.

Duration of the Course:

2 Weeks

Timings:

4pm – 6pm

Dates:

3rd Dec – 22nd Dec'2018

Topics Covered:

- Introduction to anti diabetic activity
- Introduction on in vivo methods
- Introduction on in vitro methods
- Streptozotocin induced diabetic model
- Alloxan induced diabetic model
- Monosodium glutamate induced diabetic model
- Dithisone induced diabetic model
- Goldthioglucose obese diabetic model

Days	Topics Covered
Day 1	Introduction on Diabetics • Diabetics definition, types and methods for control • Procurement of animals (rats), chemicals and standards.
Day 2 & 3	• Introduction on In vivo methods of anti diabetic models. • Streptozotocin induced diabetic model • Induction of diabetes in rats by using Streptozotocin • Duration is 4-5 hours.
Day 4 & 5	• Alloxan induced diabetic model. • Route of administration of Alloxan is intravenous/ intraperitoneal.

	• Duration of experiment 4 – 6 hours
Day 6	• Monosodium glutamate induced diabetic model • Induction of diabetes by using Monosodium glutamate
Day 7	• Dithisone induced diabetic model
Day 8	• Goldthioglucoase obase diabetic model
Day 9	• Introduction on In vitro diabetic models
Day 10	• α- Amylase inhibition assay • Preparation of α- Amylase solution with sample solution • Reading absorbance
Day 11	• α-Glucosidase inhibition assay • Reading of absorbance
Day 12	• Conclusion and reporting of in vivo and in vitro diabetic models.

Schedule:

Instructors: Dr. A .Shyam sunder, Principal & Prof. in Pharmacology.
Mr. J. Nagaraju, Asso. Prof. in Pharmacology.

Eligibility:

- B.Pharm. candidates with specialization in Pharmacology

Prerequisites:

- Candidates having background of digital system designing and any programming language experience can undergo this training.

About the Course: Biological Screening of Anti-Diabetic Drugs by in vivo and in vitro models, topic give the awareness of what is the diabetes, how to induce the disease with the help of animals by in vivo and in vitro models with different drugs.

Benefits of the Course:

Upon the completion of training, you will be proficient in the following skill set:

- Understanding the concept of Diabetic disease
- Learn about the in vivo and in vitro models for induction of disease
- Learn about awareness of disease condition and prevention methods.


COURSE COORDINATOR




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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Name of the course: Biological Screening of Anti-Diabetic drugs by in vivo and in vitro models.

Duration: 30 Hrs

Academic Year: 2018 - 19

Resource Person details:

Dr. A .Shyam sunder, M.Pharm, Ph.D

Professor. Dept. of Pharmacology.

Balaji Institute of Pharmaceutical Sciences

Balaji Institute of Pharmaceutical Sciences, Warangal, organized an add on program on **Biological Screening of Anti-Diabetic Drugs by in vivo and in vitro models** for B. Pharmacy students and Pharm D by Dr. A .Shyam sunder from **22nd June – 7th July 2018**. This program was designed to develop knowledge on in vitro and in vivo models of antidiabetic activity. Totally 60 students are participated in this training program. All the students are actively participated. Upon completion of program the students were able to understand concepts of different invitro and invivo models of antidiabetic activity.

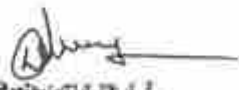
This program was very much informative to students and their feedback was positive about the program. The management and Principal of Balaji Institute of Pharmaceutical Sciences thanked to resource person and participants for making program successful.


Course Coordinator




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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

Date: 21.02.2019

CIRCULAR

It is to inform to all the students of B. Pharmacy and Pharm D all years that, a certificate program on "Analysis of Curcuminoids and Curcuminoid loaded liposome formulation by reverse phase high performance liquid chromatography" is scheduled from 28th Feb to 18th Mar 2019. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.



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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

ABOUT COURSE

Type of Course: **Certificate Course**

Title of the Course: **Analysis of Curcuminoids and Curcuminoid loaded liposome formulation by reverse phase high performance liquid chromatography.**

Duration of the Course: **15 days**

Timings: **4PM – 6PM**

Dates: **28th Feb to 18th Mar 2019**

Topics Covered:

- Introduction on Curcuminoids
- Introduction on high performance liquid chromatography instrument and working procedure
- Reverse phase HPLC
- Preparation of Curcuminoid liposome formulation
- HPLC analysis of Curcuminoids
- HPLC analysis of Curcuminoid liposome formulation
- Validation

Days	Topics Covered
Day 1	• Introduction on Curcuminoids • Definition and source of curcuminoids • Extraction process of curcuminoids. • Applications and uses of curcuminoids.
Day 2	• Introduction on high performance liquid chromatography (HPLC). • Types of HPLC and their applications in pharmaceutical field. • Introduction of Reverse phase HPLC.

	Demonstration on HPLC instrumentation and working procedure.
Day 3 & 4	- Procurement of samples, standard and required chemicals. - Preparation of curcuminoid liposomes. - Washing and optimisation of HPLC instrument with mobile phase.
Day 5 & 6	- Dilutions of standard and sample curcuminoid preparation. - RP-HPLC analysis of curcuminoids sample and standard by C18 columns and UV- Visible detector.
Day 7	RP-HPLC analysis of curcuminoid liposomes.
Day 8	- Validation of HPLC method for pure curcuminoid and curcuminoid liposomes. - Linearity
Day 9	Precision
Day 10	Accuracy study
Day 11	Limit of detection and limit of quantitation
Day 12	- Calculation and comparison of validation parameters of curcuminoid and curcuminoid liposomes - Report the method .

Instructors: Dr. P. Ravi, Professor,
HOD of Pharmaceutics
Mr. G. Venkataramana.,
Asso. Prof. in Pharmaceutics

Eligibility:

- B.Pharmacy candidates with specialization in Pharmaceutics.

Prerequisites:

- Candidates having background of digital system designing and any programming language experience can undergo this training.

Fee: Rs. 2000


Course Coordinator




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Contact : +91 9866050044 (Office), +91 986652412 (Principal), +91 8718-230521 (Fax)

Name of the course: **Analysis of Curcuminoids and Curcuminoid loaded liposome formulation by reverse phase high performance liquid chromatography.**

Duration: 30 Hours

Academic Year: 2022 - 23

Resource person details:

Dr. P. Ravi, Professor. M.Pharm, Ph.D

HOD of Pharmaceutics,

Balaji Institute of Pharmaceutical Sciences.

IPR, Patent drafting, filling and Processing is a course offered in B. Pharmacy 2nd year to 4th year, M. Pharmacy and Pharm. D program at Balaji Institute of Pharmaceutical Sciences, Warangal. This course is designed to impart knowledge of formulations and liposomes preparation procedures. The future prospects of this course are useful in academics, pharmaceutical industry, and research institution. Accordingly, a graduate and post-graduate student should be competent to meet the job requirements at all these places.

Learning Outcomes:

1. Appreciate the knowledge of formulation preparations.
2. Develop and prepare new liposomes with innovative research ideas.

Benefits of the Course:

Upon the completion of training, you will be proficient in the following skill set:

- Understanding the concept liposomal preparation of Curcuminoids.
- Learn about the analytical methodology and validation procedure for liposomes.


Course Coordinator




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Date: 30.03.2019

CIRCULAR

It is to inform to all the students of B. Pharmacy and Pharm D all years that, a certificate program on “: Research Design, Execution & Publication” is scheduled from 01st Apr 2019 to 20th Apr 2019. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.



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Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

ABOUT COURSE

Type of Course: Certificate

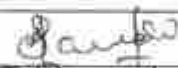
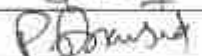
Course Title of the Course: Research Design, Execution & Publication.

Duration of the Course: 15 days

Timings: 4PM – 6PM

Dates: 01st Apr to 20th Apr 2019

Curriculum Designed and Developed by

S.No	Name of the faculty	Designation	Signature
1.	Dr. A.Shyam Sundar	Professor	
2.	Mr. P.Aravind	Assistant Professor	

Modules to be covered in the course

S. No	Topic	Duration
1.	Introduction of Research, Research designs, Bias research Evidence based study Types of evidences Subjects to be used in study Modern day advancements	3hrs
2.	Systematic reviews of trials and other studies Interpreting and understanding meta-analysis graphs	3hrs
3.	Designing, conducting and reporting clinical research	3hrs
4.	Developing research question Components of research question Literature search	3hrs
5.	Scientific literature search Literature review Scientific databases	3hrs
6.	Levels of evidences	3hrs
7.	Types of analysis in research Importance accord ing to study design	3hrs
8.	Acceptance criteria Rejection criteria	3hrs

9.	Publication databases Type of search	3hrs
10.	Journal club Types of publications and the impact	3hrs


Course Coordinator


Principal




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Contact : +91 9866050044 (Office), +91 986652412 (Principal), +91 8718-230521 (Fax)

REPORT

Name of the course: **Research Design Execution and Publication**

Duration: **01st Apr 2019 to 20th Apr 2019**

Academic Year: 2018-19

Resource person details:

Dr. A. Shyam Sundar., M. Pharm, Ph.D

Professor, **HOD in Pharmacology**

Balaji Institute of Pharmaceutical Sciences.

Balaji Institute of Pharmaceutical Sciences, Laknepally, Narsampet, Telangana organized an add on program on "Research Design Execution and Publication" for B. Pharmacy and Pharm D Students by **Dr. A. Shyam Sundar** from **01st Apr 2019 to 20th Apr 2019**. This program was designed to orient the students to develop research designs, study modules, statistical analysis and publications. A total of 60 students participated in this training program. All the students actively participated. Upon completion of the program the students were able to understand the following objectives and learning outcomes.

Objectives:

1. Analyse, interpret and develop research designs, question and analysis
2. Assess the study design, apply and interpret outcomes of study
3. Discuss the rationale for research study design
4. Describe and analyse publication, evidence based literature
5. Types of evidence based literature
6. Developing research protocol, review and publication

Learning Outcomes:

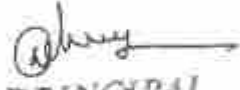
1. Learn study and research designs, questions
2. Developing effective study designs, Research questions, literature based study
3. Design and concentrate Evidence based study
4. Assess, analyze and interpret evidence based study.
5. Develop protocol, publication sceptical
6. Analyse the quality based publications

This program was very much informative and develops research oriented approach to the students and their feedback was positive about the program. The management of Balaji Institute of Pharmaceutical Sciences thanked the resource persons for making the program successful.


Course Coordinator




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Date: 17.06.2019

CIRCULAR

It is to inform to all the students of B. Pharmacy and Pharm D all years that, a certificate program on "Pharmacovigilance" is scheduled from 20th Jun 2019 to 06th Jul 2019. In this regard all the students are informed to attend the session without fail. A certificate will be given to all the students who complete the course.



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ABOUT COURSE

Type of Course:	Certificate Course
Title of the Course:	Pharmacovigilance.
Duration of the Course:	15 days
Timings:	04:00AM – 06:00PM
Dates:	20 th Jun 2018 to 06 th Jul 2018

Session	Topic Name	Approach
1	Self Awareness & Psychometric test	★ Aptitude and personality assessment, suggestions for improvement.
2	Industry Expectations & Career Planning	★ Academics and Industry -- Current Scenario ★ Gaps ★ A few Myths ★ Industry Expectations on Skill base.
3	Communicating Professional : In an Interview.	★ Recognize the importance of Body language. And manage Body language for success in an Interview.
4	JAM	★ Practice Session
5	Grooming and Etiquette	★ Identify the importance of appropriate dress sense and grooming in an Interview.
6	Group Discussions	★ Know the importance of GD for final Placements.
7	MOCK GD	★ Practice Session
8	Resume Writing	★ Customization of Resume to the candidate.
9	Interview concepts	★ Elaborate on the interview concepts
10	MOCK Interview (Personal)	★ Practice Session
11	Interviews : Personal	★ We discuss introducing self and more about self in Personal Interviews.

12	Interviews : HR	★ Different questions asked by HR and how to give answers for them.
13	Interviews : Telephonic	★ Telephone Etiquette
14	Job Interviews & Video Mirroring	★ Mock Interviews can be conducted here to give practical exposure to students.
15	Personality Assessment Round	★ Conducting SWOT Analysis and make Students to realize how to bring the Interviewer to students comfortable zone.

Schedule:

Instructors: Dr. T. Manish., Prof. in Pharamaceutical Analysis
Mr. P. Siddhartha, Asso.Prof. in Pharmaceutical chemistry

Eligibility:

Pharmacy candidates with interest in Research.



[Signature]
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BALAJI INSTITUTE OF PHARMACEUTICAL SCIENCES

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Laknepally (V) Narsampet (M) Warangal Rural (Dist) Telangana State 506331

Contact : +91 9866050044 (Office), +91 9866652412 (Principal), +91 8718-230521 (Fax)

REPORT

Name of the course: **Pharmacovigilance**

Duration: **20th Jun 2019 to 06th Jul 2019**

Academic Year: **2018-20**

Resource person details:

Dr. T. Manish Kumar., M. Pharm, Ph.D

Professor, Dept of Pharmaceutical Analysis.

Balaji Institute of Pharmaceutical Sciences.

Balaji Institute of Pharmaceutical Sciences, Laknepally, Narsampet, Telangana organized an add on program on "**Pharmacovigilance**" for B. Pharmacy Students by **T. Manish Kumar** from **20th Jun 2019 to 06th Jul 2019**. This program was designed to orient the students to develop research designs, study modules, statistical analysis and publications. A total of 60 students participated in this training program. All the students actively participated. Upon completion of the program the students were able to understand the following objectives and learning outcomes.

Objectives:

1. Understand drug safety, history and evolution of pharmacovigilance, the role of health authorities and their guidelines.
2. Processing of individual case safety reports (ICSRs).
3. Database used for case processing.
4. Understand aggregate reports and signal detection.

Learning Outcomes:

1. Define pharmacovigilance and its history.

2. Classify ICSRs and complete reporting forms.
3. Process cases in safety database.

Understand and determine seriousness, expectedness and causality


Course Coordinator




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Date: 27-07-2019

CIRCULAR

All the students of B.Pharmacy I to IV years are here by informed that an add on course on **Campus Recruitment Training** is scheduled from **01-08-2019 to 20-08-2019**.

All the students are instructed to get enrolled and attend all the classes without fail.



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DETAILED SESSION PLAN

Name of the course: Campus Recruitment Training

Duration : 01-08-2019 to 20-08-2019

Academic Year : 2018 - 19

Modules to be covered in the course

Session	Topic	Approach	Duration
1	Self-awareness& Psychometric test	Aptitude and personality assessment, su2.uest ions for improvement.	2 Hr
2	Industry Expectations & Career Planning	Academics and Industry - Current Scenario, Gaps, A few Myths, Industry Expectations on Skill base.	2 Hr
3	Communicating Professional; In an Interview.	Recognize the importance of Body language. And manage Body language for success in an Interview.	3 Hr
4	JAM	Practice Session.	2 Hr
5	Grooming and Etiquette	Identify the importance of appropriate dress sense and grooming in an Interview.	2 Hr
6	Group Discussions	Know the importance of GD for final placements.	2 Hr
7	MOCK GD	Practice Session.	2 Hr
8	Resume Writing	Customization of Resume to the candidate.	2 Hr
9	Interview concepts	Elaborate on the interview concepts.	2 Hr
10	MOCK Interview (Personal)	Practice Session.	2 Hr
11	Interviews : Personal	We discuss introducing self and more about self in Personal Interviews.	2 Hr

12	Interviews : H R	Different questions asked by HR and how to give answers for them.	2 Hr
13	Interviews : Telephonic	Telephone Etiquette .	2 Hr
14	Job Interviews & Video Mirroring	Mock Interviews can be conducted here to give practical exposure to students.	2 Hr
15	Personality Assessment Round	Conducting SWOT Analysis and make Students to realize how to bring the Interviewer to students comfortable zone.	2 Hr
Total Duration (in Hrs)			30 Hrs


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REPORT

Date: 21-08-2019

Name of the course: Campus Recruitment Training	Academic Year: 2018-19
Duration of Course: From 01-08-2019 to 20-08-2019	Duration in Hrs: 30Hrs

Resource person details:

Dr.G. Dalapathi, M.Pharm, Ph.D

Professor, Pharmaceutics.

Balaji Institute of Pharmaceutical Sciences

Number of students attended: 60

Balaji Institute of Pharmaceutical Sciences organized a certificate programme on **Campus Recruitment Training (CRT)** for IV Year B. Pharmacy students by the resource person **Dr. G. Dalapathi** from **12-08-2020 to 31-08-2020**. The comprehensive training ensures that the students can handle the recruitment process with panache irrespective of the company that comes onto the campus or out of it, and grab those coveted job offers from top Pharma and Non-Pharma companies. The students participated passionately throughout the program and were able to understand the following objects and learning outcomes.

Objectives:

- Unique short techniques for mathematics to improve speed and accuracy.
- Improve logical thinking to solve various questions and puzzles in Reasoning.
- Mock Group Discussion sessions
- Resume making and information Sessions.
- Approach oriented Training
- Interactive Methodology.
- Grooming Body Languages, Soft Skills, and Attitude etc.

Learning outcomes:

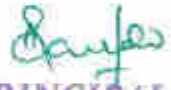
1. Understand organizational procedures and policies as related to how the employers process for campus recruitment and employer preferences.
2. Use self-assessments to identify strengths, weaknesses, transferable skills, and prime marketable characteristics.
3. Organize and write an effective cover letter and Resume.
4. Exercise judgment and logical decision making in selecting from alternative techniques for.

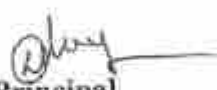
Group Discussion & Interview:

This course was very useful to the students and their feedback was positive.


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Date: 31-08-2019

CIRCULAR

All the students of B. Pharmacy IV years are hereby informed that an add on course on "Scientific approach to analytical methods development and Validation activities" is scheduled from 03-09-2019 to 20-09-2019. All the students are instructed to get enrolled and attend all the classes without fail.



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DETAILED SESSION PLAN

Name of the course: **Scientific approach to analytical methods development and Validation activities.**

Duration: From : **03-09-2019 to 20-09-2019.**

Academic Year: **2018-19**

Curriculum Designed and developed by

S. No	Name of the Faculty	Designation	Signature
1	B. Khaggeshwar	Associate Professor	<i>B. Khaggeshwar</i>
2.	B. Mohan	Assistant Professor	<i>B. Mohan</i>

Modules to be covered in the course

Session	TITLE	Duration
1.	ICH Guidelines: • Overview of ICH Guidelines • Stability Guidelines • GMP Guidelines for Pharmaceuticals • Nitrosamine Impurities Guidelines	2 Hr
2.	System Suitability Parameters For Hplc Method Development • System Suitability Test • Resolution • Retention time. • Pressure. • Column efficiency and Plate Number. • Repeatability. • Tailing factor. • Signal-to-noise ratio.	2 Hr
3.	Analytical Method Validation Parameters • Specificity • Linearity • Quantization limit • Detection limit • Range • Accuracy and Precision	2 Hr

	• Repeatability • Intermediate Precision • Reproducibility • Robustness • System Suitability Testing	
4.	Trouble Shooting Of Hplc • Peak Shape • Retention Variation • Ghost Peaks • Column Back Pressure • Column Care	2 Hr
5.	Impurity Profiling • Introduction • Classification of impurities in API • Impurities present in formulation • Identification of impurities	2 Hr
6.	Stability Indicating Methods • Introduction • Role Of QA In SIM • General Principle • Photo stability Testing of New Drug Substances • And Products Qlb • Guidance On Stability Testing: Stability Testing Of New Drug Substances And Products • Development Of A SIM • Photo stability Studies • Introduction And Importance Of Stability-Indicating Analytical Method Development • Techniques Engaged In Literature Data For The Development Of SLAMS • Steps Involved During The Development Of • Stability-Indicating Analytical Methods (SLAMS) • Forced Degradation Studies /Stress Testing Studies • Analytical Method Validation Process	3 Hr
7.	Bio analytical Method Development And Validation • Sample Preparation • Extraction Techniques • Analytical Method Procedures • Validation	3 Hr
8.	Cleaning And Process Validation • Introduction	3 Hr

	• Back Ground • General Requirements • Evaluation of Cleaning Validation • Establishments of Limits	
9.	Assay Testing Of Pharmaceutical Substances • Introduction • Guidelines of Specification • General Concepts	3 Hr
10.	Stability Testing Of Residual Solvents • Introduction • Types of Solvents • Testing of Solvents • Current Issues	2 Hr
PRACTICAL HOURS		
12.	RP-HPLC Method Development And Validation Of lamivudine In Pharmaceutical Dosage Forms	3 Hr
13.	Determination Of Gemcitabine in Bulk and Dosage Form	3 Hr
Total Duration (in Hrs)		30 Hrs


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REPORT

Date: 21-09-2019

Name of the course: Scientific approach to analytical methods development and validation activities	Academic Year: 2018-19
Duration of Course: From : 03-09-2019 to 20-09-2019	Duration in Hrs: 30 Hrs

Resource person details:

Mr B. Khaggeshwar , M.S, Pharmaceutics

Associate Professor,

Balaji Institute of Pharmaceutical Sciences.

Number of students attended: 60

Balaji Institute of Pharmaceutical Sciences organized a certificate programme on Scientific Approach to Analytical Method Development and Validation Activities for B. Pharmacy students by **Mr B. Khaggeshwar** Department of Pharmaceutics from 10-08-2020 to 28-08-2020.

Objectives:

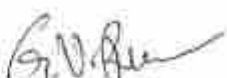
- To understand the development of analytical methods by using chromatographic Method
- To learn about the system suitability parameters and their significance.
- To become aware of analytical method validation parameters, ICH and FDA guidelines for method validation

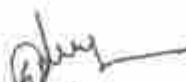
Learning outcomes:

- Logical view on how to develop analytical methods.
- Key factors affecting method development and how to optimize the method.

- Knowledge about performing and reporting of method validation parameters and out of trend results.

Totally 60 students participated in this training. All the students enthusiastically participated in the program. The program was very much valuable to them and their feedback was encouraging about the program.


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