



BALAJI INSTITUTE OF PHARMACEUTICAL SCIENCES

(Approved by AICTE & PCI, Under Section 12, New Delhi and Affiliated to kakathiya University, Wgl)

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

Contact : +91 9866050044 (Office), +91 9866652412 (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.)



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ABOUT THE PROGRAM

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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REPORT

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.



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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.



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ABOUT THE PROGRAM

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

Course Coordinator

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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.



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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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ABOUT THE PROGRAM

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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REPORT

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.



Course Coordinator



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CIRCULAR

Date: 02-12-2022

It is to inform to all the students of B. Pharmacy and Pharm D first year that, a certificate program on **“Gender Sensitization”** is scheduled from **06th December to 22nd December 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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ABOUT THE PROGRAM

Name of the course: Gender sensitization.

Duration: 06th December to 22nd December 2022

Academic Year : 2022- 23

Curriculum Designed and developed by

S.No	Name of the Faculty	Designation	Signature
1.	Dr. N. Gopi	ASSO. Prof	Gopi
2.	Dr. N. Hema	ASSO. prof	Hema

Modules to be covered in the course:

Session	Topic	Duration
1.	• UNDERSTANDING GENDER: • Gender definition, differentiation, importance. • Gender equality • Reasons for Gender discrimination in society	2hrs 2hrs
2	• Socialization: • Introduction • Making Women & Men • Preparing for Womanhood, Growing up Male, Different Masculinities	2hrs 2hrs
3.	• GENDER AND BIOLOGY • Missing Women: • Sex Selection and Its Consequences, • Declining Sex Ratio, • Demographic Consequences.	3 hrs



4	• Gender Spectrum: Beyond the Binary. Two or Many Struggles with Discrimination.	3hrs
5	• GENDER AND LABOUR • Gender equality in daily work load in society	3hrs
6	• Worth of Women's Work in Politics and Economics. • Fact and Fiction. • Unrecognized and Unaccounted work. • Additional Reading: Wages and Conditions of Work.	2hrs 2hrs
7	• ISSUES OF VIOLENCE • Sexual Harassment or sexual violence • Eve-teasing • Domestic Violence: • Safety precautions	1hr 1hr 1hr 1hr
8	• Women importance in rebuilding lives • New Forums for Justice • Additional suggestions.	1hr 1hr 1hr
9	• GENDER: CO – EXISTENCE • Relationship between genders • Gender equality • Relationship between parents and childrens, • Love letters. • Additional Reading: Rosa Parks-The Brave Heart.	2hrs


Course coordinator




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REPORT

Name of the course : **Gender sensitization.**

Duration : **06th December to 22nd December 2022**

Academic Year : **2022 - 23**

Resource Person details:

Dr. N. Gopi, MBA.,

Associate Professor,

Balaji Institute of Management Sciences (BIMS)

Balaji Institute of Pharmaceutical Sciences, Warangal, organized Awareness programme on “**Gender sensitization**” for B. Pharmacy and Pharm. D 1st year students by **Dr. N. Gopi** from **06th December to 22nd December 2022**. This program was designed to develop knowledge on importance of Gender equality. Totally 134 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 gender and gender relations.
- To understand the different obstacles to making a gender sensitive organization.
- Understand the relation between women and men in society.
- To give awareness on sexual harassment.
-

Learning Outcomes:

- Know the importance between genders in the society.
- To know how to improve mental and physical health of women to overcome the problems in the society.
- Know the preventive steps and disciplinary actions against sexual harassment in the society.




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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: 19-12-2022

It is to inform to all the students of B. Pharmacy and Pharm D first year that, a certificate program on “**Human Values**” is scheduled from **23rd December 2022 to 9th January 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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ABOUT THE PROGRAM

Name of the course: Awareness program conducted on "Human Values".

Duration : 23rd December 2022 to 9th January 2023

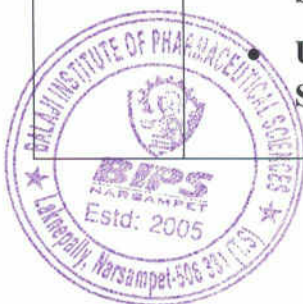
Academic Year : 2022 – 2023

Curriculum Designed and developed by

S.No	Name of the Faculty	Designation	Signature
1.	Dr. N. Gopi	ASSO. Prof	
2.	Dr. N. Hema	ASSO. Prof	

Modules to be covered in the course:

Session	Topic	Duration
1.	- Basic Guidelines, Content and Process for Value Education: - Understanding the need, basic guidelines, content and process for Value Education. - Basic Human Aspirations - Relationship and Physical Facilities - the basic requirements for fulfillment of aspirations of every human being. - Method to fulfill the human aspirations.	2hrs 2hrs 2hrs 2hrs
2.	- Understanding Harmony in the Human Being - : Understanding human being as a co-existence of the sentient 'I' and the material 'Body'. - Understanding the needs of Self ('I') and 'Body' - Sukh and Suvidha. - Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer). - Understanding the harmony of I with the Body - Sanyam and Swasthya; correct appraisal of Physical	2hrs 1hr 1hr 1hr



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	needs, meaning of Prosperity in detail. • Programs to ensure Sanyam and Swasthya.	1hr
3.	• Understanding Harmony in the Family and Society - Harmony in Human - Human Relationship: • Understanding harmony in the Family the basic unit of human interaction. • Understanding values in human - human relationship. • Understanding the meaning of Vishwas; Difference between intention and competence. • Understanding the harmony in the society (society being an extension of family): Samadhan, Samridhi, Abhay, Sah-astiva as comprehensive Human Goals.	1 hr 1hr 1hr 1hr 2hrs
4.	• Understanding Harmony in the nature and Existence - Whole existence as Co-existence: • Interconnectedness and mutual fulfillment among the four orders of nature - recyclability and self-regulation in nature. • Understanding Existence as Co-existence (Sah-astiva) of mutually interacting units in all-pervasive space.	1hr 2hrs 1hr
5.	• Implications of the above Holistic Understanding of Harmony on Professional Ethics: • Natural acceptance of human values, • Definitiveness of Ethical Human Conduct, • Basic for Humanistic Education, • Humanistic Constitution and Humanistic Universal Order. Competence in professional ethics: • Case studies of typical holistic technologies, management models and production systems. • Strategy for transition from the present state to Universal Human order.	1hr 1hr 1hr 2hrs 1hr 2hrs



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Date – 09/01/2023

REPORT

Name of the Course : “Human Values”.

Duration : 23rd December 2022 to 9th January 2023

Academic Year : 2022 – 2023

Resource Person details :

Dr . N. Gopi ,

Associate Professor,

Balaji Institute of Management Sciences

Balaji Institute of Pharmaceutical Sciences, Warangal, organized Awareness programme on “Human Values”, for B. Pharmacy and Pharm. D 1st year students by Dr . N. Gopi from 23rd December 2022 to 9th January 2023. This program was designed to develop knowledge on importance of values of Human beings. Totally 134 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:**

- Understanding the need, basic guidelines, content and process for Value Education.
- Understanding the human aspirations in the family and society.
- Understanding the harmony parameters of I with the **Body** (Sanyam and Swasthya).
- Understanding the basic knowledge for Humanistic Education.

- **Outcomes :**

- To know the knowledge on human values in between human & human relations and family & society relationships.
- To know the knowledge on Ethical Human Conduct.
- To know the knowledge on the harmony in the society (society being an extension of family).


Course Coordinator




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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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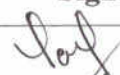
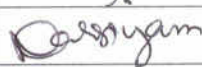
ABOUT THE PROGRAM

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 structureelucidation of natural products with few examples	3hrs
5.	IH NMR and 13C NMR Spectroscopy: Chemical shifts, coupling constant,advanced ID NMR experiments such as NOE, DEPT, D20 exchange experiment. Quantitative NMR methods.	3hrs
6.	Homonuclear 2D NMR: IH COSY, NOESY, DQF-COSY, TOCSY, 13C 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



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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: 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: **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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ABOUT THE PROGRAM

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




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REPORT

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



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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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ABOUT THE PROGRAM

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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REPORT

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.



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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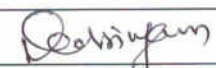
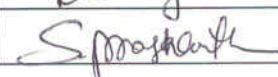
DETAILED SESSION PLAN

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

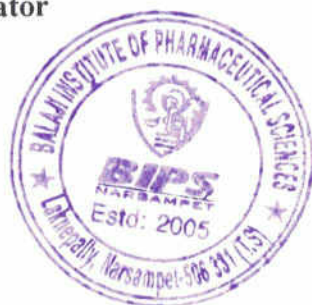
Session	Topic	Duration
1	Introduction	1 Hr
2	The Origins of the Infrared Spectrum	1 Hr
3	Spectral Interpretation by Application of Vibrational Group Frequencies	2 Hr
4	The Hydrocarbon Species and Molecular Backbone	2 Hr
5	Simple Functional Groups	2 Hr
6	The Carbonyl Group	2 Hr
7	Other Functional Groups 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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Contact : +91 9866050044 (Office), +91 986652412 (Principal), +91 8718-230521 (Fax)

REPORT

Date: 31-03-2023

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

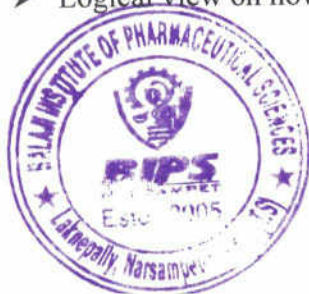
Balaji Institute of Pharmaceutical Sciences organized a certificate programme on IR Spectroscopy and Data Interpretation (IR) for I & II Year M. Pharmacy students by the resource person Mr. M. Narasingam from **13th March 2023 to 30th March 2023**. The comprehensive training ensures that the students 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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- Key factors affecting infrared spectroscopy and functional group analysis.
- Knowledge about functional groups identification and spectra interpretation

Totally 19 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: 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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ABOUT THE PROGRAM

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


Course Coordinator


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REPORT

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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