

Team:

Organising Secretary

Dr. H. Shivkumar

Professor and Head
Department of Pharmacology
BLDEA'SSSM COP & RC, Vijayapur

Convener

Dr. Shridharkumar S. Biradar

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Member

Smt. Kavita Nesur

Department of Pharmacology
BLDEA'SSSM COP & RC, Vijayapur

Member

Kum. Rani Bandarkavathe

Department of Pharmacology
BLDEA'SSSM COP & RC, Vijayapur

Along with these Pharmacologists Experts of the field as external visiting faculty will be invited from Industry and Central Research Laboratory, BLDE Deemed to be University.

CHIEF PATRON

Dr. M. B. Patil

President, BLDE Association
& Minister for Commerce & Large and Medium Industries, Infrastructure Development Govt. of Karnataka

Patron

Dr. R. B. Kotnal

CAO
BLDE Association, Vijayapura

*Chief Guest
(Inauguration)*

Dr. Akram Naikawadi

Professor and Head, Department of Pharmacology
BLDE (Deemed to be University), Shri B M Patil Medical College, Vijayapura

(Valedictory)

Dr. Shrinivas Raikar

Professor, Department of Pharmacology
BLDE (Deemed to be University), Shri B M Patil Medical College, Vijayapura

Principal

Dr. C. Mallikarjuna Setty

Organising secretary

Dr. H. Shivkumar

Professor and Head

Convener:

Dr. Shridharkumar S. Biradar

Coordinator:

Shri. Santhosh R Awasthi

Smt Bangaramma Sajjan Campus Shri B.M.Patil Road
(Solapur Road), Vijayapura-586103



B.L.D.E Association's

**SSM COLLEGE OF PHARMACY AND
RESEARCH CENTRE, VIJAYAPUR – 586103**



VALUE ADDED COURSE

Organised by

**Department of
Pharmacology**

Title:

**“Preclinical Models in Drug
Testing”**

Begins from 15-03-2024.



Introduction:

Experimental Pharmacology is an Essential part of Drug discovery. Preclinical research requires skills of animal study; animal handling, dose calculation and study design.

Animal handling and designing study models is an essential part of pharmacology and it requires proper training by skilled trainers.

The department of pharmacology of BLDEA's SSM College of Pharmacy and Research Centre, Vijaypur is offering a Value Added Course with title "Preclinical Models for Drug Testing" in which the Teachers of the department and Experts of the field will explain the Preclinical aspects of research and preparing a study design. The Value added Course would be beneficial for Post Graduate students/ Scholars of Life Sciences whose research involves Preclinical study.

Course Goals:

General Objectives of the Course:

1. To train students/Scholars in selecting proper animal model for their research.
2. To train students/Scholars to do proper animal grouping.
3. To train students/Scholars to design their study.
4. To teach students/Scholars about In Vitro models and their importance in Pre Clinical research.
5. To teach students various pharmacological screening methods in Simulated experiment format.

Duration of the Course

The duration of the course will be for four weeks (30 hours). Sessions shall consist of one hour of teaching in theory whereas demonstration session will be of two hours.

Eligibility for Admission

Any Research Scholar/Postgraduate student of life sciences will be eligible for the admission whose research work requires Preclinical studies (animal models /in vitro models) are eligible for this course.

Medium of Instruction and Examination

- a) Medium of Instruction of the Certificate Course will be in English
- b) CGPA based evaluation. Evaluation of course will be on the basis of attendance, Assignments, theoretical knowledge obtained during training period. There will be theory written examination.

Credits awarding methodology

Every hour of attending the teaching-learning session will be awarded 0.5 credit. 30 hours=15 credits Successful completion of the evaluation/examination= 1 credit. Certificate will be issued by BLDEA's SSM College of Pharmacy and Research Centre, Vijayapur.

Teaching –Learning methodology

Theory classes will be mainly interactive with brief description of the topic and its contents to provide a theoretical clarity for specific models and study design. Participants will be encouraged to interact freely and they will be allowed for hands on training for animal models.

Examination: Theory examination concentrating on the curriculum content of the program. [20 marks for one hour], 20 marks for demo class/seminars, and 10 marks for assignments.

Schedule for the program: March–April 2024

SYLLABUS AND RESOURCE PERSON

The course consists of theory and practical training on "Preclinical Models for Drug Testing".

Sl. No.	Content	Hrs	Resource Person
I	Introduction to experimental pharmacology	2	Dr. Shridharkumar S. Biradar
II	Method of Animal Grouping	1	Dr. Shridharkumar S. Biradar
III	Dose calculation	2	Dr. Shridharkumar S. Biradar
IV	Animal handling Techniques and various Routes drug administration	2	Dr. Shridharkumar S. Biradar
V	Preclinical models for drugs acting on CNS		
1	Screening models for Anticonvulsant drugs	2	Kum.Rani Bhandarkavathe
2	Screening models for drugs useful in learning and memory	3	Kum.Rani Bhandarkavathe
V	Preclinical models for Anti-inflammatory and Analgesic Drugs		
1	Caudal immersion Method	1	Kum. Renuka Sunagad
2	Tail flick Method	1	Kum. Renuka Sunagad
3	Carrageenan induced Paw oedema model	1	Smt.kavita Nesur
4	Writhing Method	1	Smt.kavita Nesur
VI	Preclinical models for Drugs used in Metabolic Disorders (Models to study drugs used in diabetes)		
1	Alloxan induced Diabetes Model	1	Smt.kavita Nesur
2	Streptozotocin induced diabetes model	1	Smt.kavita Nesur
VII	Preclinical models for Drugs used in Metabolic Disorders (Models to study drugs used in Hyperlipidaemia)		
1	Triton WR 1339 Induced Hyperlipidemia model	1	Dr. Shridharkumar S. Biradar
2	Cholesterol Rich Diet Induced Method for Hypercholesterolemia	1	Dr. Shridharkumar S. Biradar
VIII	"Revolutionizing Drug Discovery: Current Advancements and Future Prospects in In Vitro Pharmacology Technologies"	2	Dr. R CHANDRAMOULI REDDY Assistant Director and Coordinator Centre for Advanced Medical Research (CAMR)
IX	Simulated Experiments	4	Shri.Santhosh R. Awasthi
X	Model demonstration of statistical analysis of results	2	Dr. Shridharkumar S. Biradar
XI	IAEC format and protocol	2	Dr.Shivkumar Hugar