


Course Module

Preclinical Studies

Sr No.	Content	Hours
1	<p style="text-align: center;">Introduction to preclinical studies and types of Preclinical studies</p> <ul style="list-style-type: none"> • Importance of preclinical studies • In-Vitro • In vivo 	04
2	<p style="text-align: center;">Importance of preclinical studies for drug discovery</p>	04
3	<p style="text-align: center;">Ethical bodies for animal studies</p> <ul style="list-style-type: none"> • CPCSEA and approval 	04
4	<p style="text-align: center;">Introduction to Different types of Laboratory animals and importance</p> <ul style="list-style-type: none"> • Rats • Mice • Guinea Pigs • Rabbits 	02
5	<p style="text-align: center;">In vitro studies</p> <ul style="list-style-type: none"> • Introduction to various in vitro studies like antioxidant, anti-inflammatory etc., • Cell culture techniques • In vitro assay procedures 	06
6	<p style="text-align: center;">Toxicity studies and their use in pre clinical services</p> <ul style="list-style-type: none"> • OECD guidelines • Acute oral toxicity • Subacute toxicity • Subchronic toxicity • Chronic toxicity • Carcinogenicity 	06

7	Euthanasia techniques of animals after study as per CPCSEA	02
8	Preparation of study protocols according to standard guidelines	02

Remark by IQAC	Dr. Marina Dsouza
Signature	




Principal
Sandip Foundation's
**Sandip Institute of
Pharmaceutical Sciences**
Mahiravani, Nashik-422 213