



**DR. B. C. ROY COLLEGE OF PHARMACY & AHS, DURGAPUR  
(NBA Accredited for UG Pharmacy Program)**

**FACULTY: Dr. Aniruddha Mukherjee (AM)**

**PROGRAM: M. PHARM**

**Semester: 1st**  
**Course Code: MPT - 1083**  
**Course Name: Pharmacological and Toxicological Screening Methods-I**

**Suggested Books for the Course (with links):**

Sl. No.	Book Name, Ed., Vol	Authors	Weblink(s)
1	Drug discovery and evaluation: pharmacological assays. 2nd Edition; 2002	H. G Vogel	<a href="#">PDF</a>
2	Drug Discovery and Evaluation: Safety and Pharmacokinetic Assays. 2nd Edition; 2013	H. Gerhard Vogel • Jochen Maas Franz J. Hock • Dieter Mayer	<a href="#">PDF</a>
3	Animal Models in Cardiovascular Research. 3rd Edition; 2009	David R. Gross	<a href="#">PDF</a>
4	Handbook of Laboratory Animal Management and Welfare, 3rd Edition; 2003	Sarah Wolfensohn and Maggie Lloyd	<a href="#">PDF</a>
5	The UFAW handbook on The Care and Management of Laboratory and Other Research Animals. 8th Edition; 2010	Robert Hubrecht and James Kirkwood	<a href="#">PDF</a>
6	Animal Physiologic Surgery. 3rd Edition; 1982	C. Max Lang	<a href="#">PDF</a>
7	Pharmaceutical Bioassay: Methods and Applications. 2013	Shiqi Peng & Ming Zhao	<a href="#">PDF</a>
8	Experimental Surgical Models in the Laboratory Rat. 2009	Alfredo Rigalli & Verónica Elina Di Loreto	<a href="#">PDF</a>



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### Supplementary Materials for Reference and Self Study:

Date	Module (as per Lesson Plan)	Topic	Live Recording Link	Powerpoint Presentation Link	Supplementary Notes / Resources	Remarks
06-11-2020	IV	Introduction on need of preclinical hypertension	<a href="#">Video</a>	<a href="#">Click here</a>	<a href="#">Additional material</a>	Initial information from Vogel need to be supplemented from additional material
13-11-2020	IV	Preclinical; model of hypertension	<a href="#">Video</a>	<a href="#">Click here</a>	<a href="#">Additional material</a>	Initial information from Vogel need to be supplemented from additional material
11-12-2020	IV	Introduction of electrophysiology of heart and ECG	<a href="#">Youtube</a>	<a href="#">PPT</a>	<a href="#">additional &amp; reference material</a>	
17-12-2020	IV	Preclinical model - Arrhythmia	<a href="#">Youtube</a>	<a href="#">PPT</a>	Consult HG Vogel	<a href="#">Articles</a>
15-01-2021	IV	Etiopathogenesis and preclinical model of antianginal drugs	<a href="#">Youtube</a>	<a href="#">PPT</a>	Consult HG Vogel	<a href="#">Articles &amp; materials</a>
22-01-2021	IV	Preclinical screening of antiatherosclerotic agents	<a href="#">Youtube</a>	<a href="#">PPT</a>	<a href="#">Useful video</a> (Pathophysiology)	<a href="#">Articles</a> <a href="#">Pathophysiology</a>
29-01-2021	IV	Diuretics - preclinical model	<a href="#">Youtube</a>	<a href="#">PPT</a>	Consult H. G. Vogel	<a href="#">Articles for reference</a>
05-02-2021	IV	Preclinical model - Dyslipidemia	<a href="#">Youtube</a>	<a href="#">PPT</a>	Consult H. G. Vogel	<a href="#">Articles</a>
01-02-2021	IV	Diabetes introduction	<a href="#">Youtube</a>	<a href="#">PPT</a>	<a href="#">Book chapter G &amp; G</a>	
12-02-2021	Seminer	Genetical model: diabetes (two invivo)			Soumik Bhattacharjee	
12-02-2021	Seminer	Preclinical model: cancer (two invivo)			Subhadase Chatterjee	
12-02-2021	Seminer	Hepatoprotective agent screening model (two model - invivo)			Barsha Chandra	
19-02-2021	Seminer	Immunological disorders & their therapeutics			Maitreyee Mukherjee	
26-02-2021	IV	Diabetes preclinical model	<a href="#">Youtube</a>	<a href="#">PPT</a>	<a href="#">Articles</a>	