

RBVRR Women's College of Pharmacy

(Approved by AICTE & PCI, Affiliated to Osmania University)

Barkatpura, Hyderabad – 500 027.

INNOVATIVE TEACHING AND LEARNING METHODS (Pharmaceutics Department)

S.No	Topic	Innovative method implemented
1.	Various Dosage Forms	Project based Learning (PBL) Students were given with the project to write all the marketed preparations along with the manufacturer name as examples under each dosage form.
2.	Pharmaceutical Calculation	Learning by doing (LbD's) Students were given with various Problems related to dose adjustment calculation in with respect to Age, Weight and Body surface area.
3.	Monophasic liquid Dosage forms	Reflection Spot What are the examples for liquid dosage forms? What do you understand by word Monophasic?
4.	Biphasic liquid Dosage Forms	Reflection Spots What do you understand by term Biphasic? What are the examples for Biphasic liquids? Paints, Milk can be example for which kind of liquid? Why?
5.	Semisolid Dosage Forms	Power Point Presentation https://www.slideshare.net/docmano15/semi-solid-dosage-forms

S NO	CLASS	TOPIC	METHOD IMPLEMENTED
1	B.PHARM IV/II	Cosmetic Technology	Reflection Points <ul style="list-style-type: none"> Different formulation ingredients in lipstick Types of face powders
2	B.PHARM IV/II	COSMETIC TECHNOLOGY	QUIZ MCQs
3	B.PHARMA VI SEM CBCS	PH-ENGG	GOOGLE FORMS https://docs.google.com/forms/d/1V0TRZvoR3KUI2-1mnEbSwyH9fZJhjkhoO8cCgPFeovs/edit
4	B.PHARMA VI SEM CBCS	PH-ENGG	QUESTION BOWL
5	B.PHARMA VI SEM PCI	PH-ENGG	QUIZ MCQ
6	B.PHARMA VI SEM PCI	PH-ENGG	Learning By Doing, Given Seminar Topics Asked For Seminars
7	B.PHARMA VI SEM PCI	PH-ENGG	REFLEX SPOTS <ul style="list-style-type: none"> How to choose mill based on desired size Applications of stokes velocity

S.N O.	Class	Topic	Method Implemented
1	B.Pharm III/II	Physical Pharmacy II	Reflection spots 1. What is Phase rule and its applications 2. What are the methods to improve solubility
2	I/II M.Pharm	Industrial Pharmacy	Powerpoint https://drive.google.com/open?id=1x6ALlmBVqLajHw1MO7bQxUANPAY5tObQADA7OEDy-k
3	B.Pharm III/II	Physical Pharmacy II	Google forms https://drive.google.com/open?id=10WXJqW95y0
4	IV/I B.Pharm	Bioavailability and Bioequivalence	OER https://1032group2.wordpress.com/
5	B.Pharm III/II	Physical Pharmacy II	Learning by Doing Problems in kinetics have been made to be practised
6	I/IIM.P harm	Cleaning validation	https://drive.google.com/open?id=1Ap-6xokrtTe9FJTS6mFgjbC-h7FIY5Zf
7		Pharmaceutics	OER https://wordpress.com/pages/ratnamalosite.wordpress.com

S.NO	Class	Subject	Topic	Method Implemented
1	B Pharmacy III/I	Pharmaceutical technology	excipients	URL Link https://www.americanpharmaceuticalreview.com/25335-Pharmaceutical-Raw-Materials-and-APIs/25283-Pharmaceutical-Excipients/
2	B Pharmacy III/I	Pharmaceutical technology	Manufacturing of tablets	Reflection spot What are the excipients used to manufacture tablets? What is the difference between lubricant & glidant? What is the best method of adding a disintegrant? What is the end point of adding a binder? What are the limitations of wet granulation & dry granulation? What is slugging?
3	B Pharmacy III/I	Pharmaceutical technology	Manufacturing of capsules	Video link https://www.youtube.com/watch?v=3tSlu6jt0Cg
4	B Pharmacy III/I	Pharmaceutical technology	Aerosols	https://www.youtube.com/watch?v=VHKc_zHhK78
5	B Pharmacy III/I	Pharmaceutical technology	Parenterals	https://www.youtube.com/watch?v=iwF5g6xkPOE
6	B Pharmacy III/I	Pharmaceutical technology	Suspensions and emulsions	https://www.slideshare.net/PallaviKurra/pharmaceutical-suspensions-and-emulsions

S.NO	Class	Subject	Topic	Method Implemented
1	B Pharmacy III/I	Pharmaceutical technology	Filling & sealing of ampoules	Audio Video tools https://youtu.be/vqDQHAolzgw
3	B Pharmacy III/I	Pharmaceutical technology	Manufacturing of tablets	Reflection spot What are the excipients used to manufacture tablets? What is the difference between lubricant & glidant? What is the best method of adding a disintegrant? What is the end point of adding a binder? What are the limitations of wet granulation & dry granulation? What is slugging?
3	B Pharmacy III/I	Physical pharmacy – I	Phase equilibria	Reflection spot What is Gibbs phase rule? What is CST? What are the rules for ternary phase diagram?
4	B Pharmacy III/I	Physical pharmacy – I	Micromeritics	Ppt https://drive.google.com/open?id=0B0aSPwGKcx9RNUIPdUgzS2t0amY1SWZ2VzA3T1dJSV92eGI4
5	B Pharmacy III/II	Biostatistics	Test of hypothesis	Reflection spot What is null hypothesis? What is the difference between type I & type II error?

				How can you decide whether the two variables are significant or not?
6	B Pharmacy IV/II	Cosmetic technology	Manufacturing of Lipsticks	Audio Video tools https://youtu.be/DK7J9h5V6u8

S.N O.	Class	Topic	Methods Implemented
1	B.Pharm II/I	Pharmaceutical microbiology	Reflection spots What is a clean room?
2	B.Pharm II/I		Audio video tools https://drive.google.com/open?id=0Bx4AJb9iXXubczZEZ11T3JraXliZmRSVVFSS9PaHJLR1k0
3	B.Pharm IV/II	GPAT QUIZ	MCQS https://drive.google.com/open?id=0Bx4AJb9iXXubVEFPOTM5amxBQmxqOHVlaVVPQONHbmYxYTFz
4	B.Pharm IV/II	vACCINES	Audio video tools https://docs.google.com/presentation/d/11P5TkET-t_59Sa9pyZ1Z3uRBEkEqjBh2AABT9keC6ZY/edit?usp=sharing
5	M.Pharm (Quality assurance)		OER https://drive.google.com/file/d/1g_gljXSob-OjivMh1v50xtS-MqIS-UP2/view?ths=true
6	M.Pharm (Quality assurance)	Sanitization in place	Audio video tools https://drive.google.com/file/d/0B1imCJoiv8hxTHZkcWNRVNpZlhyc2hpQXI4TU9PaklwUINZ/view?ths=true
7	B.Pharm IV/II and B.Pharm II/I		Inquiry-based learning Students are questioned during the class to arise their critical thinking levels
8			https://kusuma5780.wordpress.com/

S.N O	CLASS	TOPIC	METHODS IMPLEMENTED
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1	B.PHAR M II/I	PHARMACEUTICAL ENGINEERING	PHASES OF PHARMACEUTICAL INDUSTRIES https://www.youtube.com/watch?v=ZdYRtKCxC68
2	B.PHAR M II/I	PHARMACEUTICAL ENGINEERING	FLUID BED DRYER https://www.youtube.com/watch?v=Qy1p2wCq0cU
3	B.PHAR M II/I	PHARMACEUTICAL ENGINEERING	QUIZ QUESTIONS https://www.pharmatutor.org/pharma-quiz/quiz46
5	B.PHAR M II/I	PHARMACEUTICAL ENGINEERING	https://pdfs.semanticscholar.org/c7ec/e06941cc5a314896bcc5b74a9c3037d74fd2.pdf
4	B.PHAR M I/I	PHARMACEUTICS	MARKETED FORMULATION POWERPOINT PRESENTATION
5	B.PHAR M I/I	PHARMACEUTICS	https://sites.google.com/site/mpharmedu/home/pharmaceutics
6	B.PHAR M I/I	PHARMACEUTICS	QUIZ QUESTIONS https://www.pharmatutor.org/pharma-quiz/quiz46