

**SEMESTER: EVEN, 2020-21****PAPER CODE: MPT-2083 (PRINCIPLES OF DRUG DISCOVERY)**

Date	Unit	Video link		Power Point Link	Study Material	Supplementary Material (if any)
24.04.2021	1 (Structure based Drug design)	<a href="https://www.youtube.com/watch?v=tU5qu0CrUqA">https://www.youtube.com/watch?v=tU5qu0CrUqA</a>		<a href="https://drive.google.com/file/d/1cx9oKxEbgnfNAcGteCuLUA3LZ_hHlgZI/view?usp=sharing">https://drive.google.com/file/d/1cx9oKxEbgnfNAcGteCuLUA3LZ_hHlgZI/view?usp=sharing</a>	<a href="https://drive.google.com/drive/folders/1jN5YdR5C41Mj4q82LoB3PQ8D5p25KZb?usp=sharing">https://drive.google.com/drive/folders/1jN5YdR5C41Mj4q82LoB3PQ8D5p25KZb?usp=sharing</a>	Book name given: Hugo and Kubiyanis book on Drug discovery Please follow the link> <a href="https://drive.google.com/file/d/1uikpqnENd2-SFhRZTeCq0CIKhQdhZYFI/view?usp=sharing">https://drive.google.com/file/d/1uikpqnENd2-SFhRZTeCq0CIKhQdhZYFI/view?usp=sharing</a>
08.05.2021	1 (Ligand Based Drug Design_ + Introduction to QSAR	<a href="https://youtu.be/0MrGXa3L3Rg">https://youtu.be/0MrGXa3L3Rg</a>		<a href="https://drive.google.com/file/d/1Ccf2Yskg7svj7_e9Tvd iqRAMCGqzQMVM/view?usp=sharing">https://drive.google.com/file/d/1Ccf2Yskg7svj7_e9Tvd iqRAMCGqzQMVM/view?usp=sharing</a>	First of all watch my these videos: <a href="https://youtu.be/vHLW9YMkmRg">https://youtu.be/vHLW9YMkmRg</a>  <a href="https://youtu.be/zPR4UwHZXEI">https://youtu.be/zPR4UwHZXEI</a>  <a href="https://www.youtube.c">https://www.youtube.c</a>	Another book Book 2) Fundamentals of Medicinal Chemistry <a href="https://drive.google.com/file/d/1dFVs8n4TEM_gT7suPy4nybXjAgCheZ/view?usp=sharing">https://drive.google.com/file/d/1dFVs8n4TEM_gT7suPy4nybXjAgCheZ/view?usp=sharing</a>  Third book:

				<p>om/watch?v=e0dbhzQem2U</p> <p><a href="https://youtu.be/iZ7U7DISpVs">https://youtu.be/iZ7U7DISpVs</a>  <a href="https://youtu.be/rdm8ZoK74L4">https://youtu.be/rdm8ZoK74L4</a></p> <p><a href="http://www.youtube.com/watch?v=4VQglmV51y0">http://www.youtube.com/watch?v=4VQglmV51y0</a>  <a href="http://www.youtube.com/watch?v=GbvWO_Oh5Q">http://www.youtube.com/watch?v=GbvWO_Oh5Q</a></p> <p>(paste these links on your menu bar and watch the videos)</p> <p>Study material:  <a href="https://drive.google.com/file/d/1MbzSH72pfVFzYSKG_589upzJZxscOt43/view?usp=sharing">https://drive.google.com/file/d/1MbzSH72pfVFzYSKG_589upzJZxscOt43/view?usp=sharing</a> (de novo ligand design)</p> <p><a href="https://drive.google.com/file/d/1zEIY2zTcG5">https://drive.google.com/file/d/1zEIY2zTcG5</a></p>	<p>Now as a third book I am posting <b>Medicinal Chemistry</b> by <b>Asutosh Kar</b>. The first few chapters are on drug design and QSAR. You will get entire syllabus from here including QSAR and descriptors. Follow the link</p> <p><a href="https://drive.google.com/file/d/1h1En67Nql3e4mx1407ZchrsjCu2rHNR/view?usp=sharing">https://drive.google.com/file/d/1h1En67Nql3e4mx1407ZchrsjCu2rHNR/view?usp=sharing</a></p>
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15.05.2021	QSAR (HANSCH, HAMETT, LOG P, TAFT, MR, VERLOOP, BRANCIN G, ETSA, HANSCH ANALYSIS , EQUATIO N)	<a href="https://youtu.be/M4FGIKtQKFM">https://youtu.be/M4FGIKtQKFM</a>		1) <a href="https://drive.google.com/file/d/1M7jDVd7En0DnzMMrKhvHgxvmFFPIYs/view?usp=sharing">https://drive.google.com/file/d/1M7jDVd7En0DnzMMrKhvHgxvmFFPIYs/view?usp=sharing</a>  Also <a href="https://drive.google.com/file/d/1Ccf2Yskg7svj7_e9TvdIqRAMCGqzQMVM/view?usp=sharing">https://drive.google.com/file/d/1Ccf2Yskg7svj7_e9TvdIqRAMCGqzQMVM/view?usp=sharing</a>  Also Read all the books carefully that I posted		
22.05.2021	QSAR (MLR), CONCEPT OF REGRESSI ON, 2D-	<a href="https://youtu.be/UaiUHTMCb_U">https://youtu.be/UaiUHTMCb_U</a>		Building 2D QSAR model: <a href="https://drive.google.com/drive/fo">https://drive.google.com/drive/fo</a>	Watch this video from Schrodinger  <a href="https://www">https://www</a>	

	<p>QSAR MODEL BUILDING, STATISTICAL CONCEPTS IN QSAR, LOO, BOOTSTRAPPING TECHNIQUE, Y-SCRAMBLING, PCA, PLS, CLUSTER ANALYSIS, QSAR METHOD VALIDATION, MATRIX CONCEPT OF QSAR, FREE-WILSON ANALYSIS (INTRODUCTION)</p>			<p><a href="https://drive.google.com/drive/folders/1vWS8EIJy55qZq33w-ameFI4_6ZXfsc1C?usp=sharing">https://drive.google.com/drive/folders/1vWS8EIJy55qZq33w-ameFI4_6ZXfsc1C?usp=sharing</a></p> <p>Statistical methods in QSAR <a href="https://drive.google.com/drive/folders/1nkT8jzvGg4EqwR3felKt-AgFMzx3hKA?usp=sharing">https://drive.google.com/drive/folders/1nkT8jzvGg4EqwR3felKt-AgFMzx3hKA?usp=sharing</a></p> <p>Free-Wilson Analysis <a href="https://drive.google.com/drive/folders/1y_I dm7M7uCXbgFfcNLwg t3CHippsDkW6?usp=sharing">https://drive.google.com/drive/folders/1y_I dm7M7uCXbgFfcNLwg t3CHippsDkW6?usp=sharing</a></p>	<p><a href="https://www.youtube.com/watch?v=Du4h9voRcvk">.youtube.com/watch?v=Du4h9voRcvk</a></p>	
29.05.2021	<p>QSAR (Free-Wilson Analysis, Fujita Ban Analysis, Topliss Substitutional Scheme, Introduction to 3D-QSAR, CoMFA introduction)</p>	<p><a href="https://youtu.be/uDLDuOhfdVs">https://youtu.be/uDLDuOhfdVs</a></p>		<p><a href="https://drive.google.com/file/d/1KetNSKaBcIyzcoIGDUNH2LqBnsDJoiDU/view?usp=sharing">https://drive.google.com/file/d/1KetNSKaBcIyzcoIGDUNH2LqBnsDJoiDU/view?usp=sharing</a></p>	<p>See these papers</p> <p><a href="https://drive.google.com/drive/folders/1y_I dm7M7uCXbgFfcNLwg t3CHippsDkW6?usp=sharing">https://drive.google.com/drive/folders/1y_I dm7M7uCXbgFfcNLwg t3CHippsDkW6?usp=sharing</a></p> <p><a href="https://drive.google.com/drive/fo">https://drive.google.com/drive/fo</a></p>	

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30.05.2021	Virtual screening (introduction), Molecular docking (started)	<p>Please go through the following video links:</p> <p><a href="http://www.youtube.com/watch?v=rf8QJ4SON4">http://www.youtube.com/watch?v=rf8QJ4SON4</a>  (Docking intro)</p> <p>Then</p> <p><a href="http://www.youtube.com/watch?v=Eytgun3ic4s">http://www.youtube.com/watch?v=Eytgun3ic4s</a>  (Docking continued)</p>			<a href="https://drive.google.com/drive/folders/1elfEEyquLnfv7ZLaLk9coSAeDy12PULn?usp=sharing">https://drive.google.com/drive/folders/1elfEEyquLnfv7ZLaLk9coSAeDy12PULn?usp=sharing</a>	

		<p><b>Then</b></p> <p><a href="http://www.youtube.com/watch?v=">http://www.youtube.com/watch?v=</a></p> <p><b>(Docking final)</b></p>				
19.06.2021	Docking, Virtual Screening Finished (Pharmacophore based, Drug likeliness based, Toxicological based).	<a href="https://youtu.be/OFqoE16e61U">https://youtu.be/OFqoE16e61U</a>			<a href="https://drive.google.com/drive/folders/1elfEYquLnfv7ZLaLk9coSAeDy12PULn?usp=sharing">https://drive.google.com/drive/folders/1elfEYquLnfv7ZLaLk9coSAeDy12PULn?usp=sharing</a>	
10.07.2021	Combination Chemistry, Introduction, Classification, parallel synthesis, Split and pool method, Introduction to solid phase synthesis	<a href="https://youtu.be/-LMqrSSdgcU">https://youtu.be/-LMqrSSdgcU</a>			<a href="https://drive.google.com/drive/folders/1SjeGMnr2-UfF14zErHPDB4D7kmtncWEc?usp=sharing">https://drive.google.com/drive/folders/1SjeGMnr2-UfF14zErHPDB4D7kmtncWEc?usp=sharing</a>	

18-07-2021	Solid phase peptide synthesis (illustrated), concept of protecting and deprotecting agents, other methods of combinatorial synthesis discussed	<p><b>Video-I</b></p> <p><a href="https://drive.google.com/file/d/1jwA7-BtrDtlk-kSVI80vBBswR_vmWrn3/view?usp=sharing">https://drive.google.com/file/d/1jwA7-BtrDtlk-kSVI80vBBswR_vmWrn3/view?usp=sharing</a></p> <p><b>Video-II</b></p> <p><a href="https://drive.google.com/file/d/12W4YoelrdWW2BSG-pfDJiwk7Ktg8bc4/view?usp=sharing">https://drive.google.com/file/d/12W4YoelrdWW2BSG-pfDJiwk7Ktg8bc4/view?usp=sharing</a></p>			<p>For study material the same drive continues</p> <p>ALSO READ THE FOLLOWING STUDY MATERIAL TO HAVE AN IDEA ON VARIOUS PATHWAYS OF PEPTIDE AND NATURAL PRODUCT SYNTHESIS WITH SPECIFIC NAMES AND AND VARIOUS REAGENTS</p> <p><a href="https://drive.google.com/file/d/1yLv-21KGC3iG3Z6v28f0tgGchmLRQPN/view?usp=sharing">https://drive.google.com/file/d/1yLv-21KGC3iG3Z6v28f0tgGchmLRQPN/view?usp=sharing</a></p>	
24-07-2021	Prodrug Design- Introduction. Classification, objectives, basics of	<p><b>Video-I</b></p> <p><a href="https://youtu.be/Iq6uQzhIwyo">https://youtu.be/Iq6uQzhIwyo</a></p>			<p><a href="https://drive.google.com/drive/folders/11QIsrQhyJqIVzAbf9QQbVGmZplH8XBlw?usp=s">https://drive.google.com/drive/folders/11QIsrQhyJqIVzAbf9QQbVGmZplH8XBlw?usp=s</a></p>	

	macromole cular prodrugs	<b><u>Video-II</u></b>  <a href="https://youtu.be/xyHInoYGjTs">https://youtu.be/xyHInoYGjTs</a>			<a href="#">haring</a>	
01-08-2021	Macromole cular prodrug	<b><u>https://youtu.be/20YPx0q5B6c</u></b>			See and go through the same notes on prodrugs Especially macromole cular prodrug	