

## FACULTY: Dr. Souvik Basak

PROGRAM: B. PHARM

Course Code: PT 5.3.T

Course Name: Advanced concepts in synthetic chemistry in pharmacy

### Suggested book for the course (with links)

SL No.	Book Name, Ed Vol	Authors	Weblink (s)
1	Medicinal Chemistry by Sutosh Kar	Asutosh kar	<a href="https://drive.google.com/file/d/11h1En67Nql3e4mx1407ZchrsjCu2rHNR/view?usp=sharing">https://drive.google.com/file/d/11h1En67Nql3e4mx1407ZchrsjCu2rHNR/view?usp=sharing</a>
2.	Medicinal Chemistry by Wilson and Gisvold	Wilson and Gisvold	<a href="https://drive.google.com/file/d/1GqNktHQ0EqBH_NoNWbWX08UyHrYaGiSy/view?usp=sharing">https://drive.google.com/file/d/1GqNktHQ0EqBH_NoNWbWX08UyHrYaGiSy/view?usp=sharing</a>

**Supplemental Material for Precurricular Activity**

<b>Date</b>	<b>Module</b>  (as per Lesson Plan)	<b>Topic</b>	<b>Live Recording Link</b>	<b>Powerpoint Presentation Link</b>	<b>Supplementary Notes / Resources</b>	<b>Remarks, if any</b>
24.07.2020	Cannot be evaluated as plan is not given by previous faculty (left from college)	Introduction to structure of heterocyclic compounds	<a href="https://www.youtube.com/watch?v=Ea0eLxMktQc&amp;feature=youtu.be">https://www.youtube.com/watch?v=Ea0eLxMktQc&amp;feature=youtu.be</a>	<a href="https://drive.google.com/file/d/1UutsMffUKr2vR5UI1ZUQ8JdE6ruxb5vd/view?usp=sharing">https://drive.google.com/file/d/1UutsMffUKr2vR5UI1ZUQ8JdE6ruxb5vd/view?usp=sharing</a>	None	OK

25.0 7.20 20	General, as it is pre curricular	Analysis of structural identities to various classes of medicinal compounds	<a href="https://www.youtube.com/watch?v=nY6qj1AqFyg&amp;feature=youtu.be">https://www.youtube.com/watch?v=nY6qj1AqFyg&amp;feature=youtu.be</a>	<a href="https://drive.google.com/file/d/1UutsMffUKr2vR5UI1ZUQ8JdE6ruxb5vd/view?usp=sharing">https://drive.google.com/file/d/1UutsMffUKr2vR5UI1ZUQ8JdE6ruxb5vd/view?usp=sharing</a>	None	Ok
31.0 7.20 20	Drug-Receptor interaction, forces of interaction and biosynthesis		<a href="https://www.youtube.com/watch?v=SZgnUiyDYJA&amp;feature=youtu.be">https://www.youtube.com/watch?v=SZgnUiyDYJA&amp;feature=youtu.be</a>	<a href="https://drive.google.com/file/d/1CfwyGwnENmUOh8m81uV698kqIDMF8GqI/view?usp=sharing">https://drive.google.com/file/d/1CfwyGwnENmUOh8m81uV698kqIDMF8GqI/view?usp=sharing</a>  (At this stage, read only pg 70-77 of this book to understand relationship of compound structure, different groups, and substituents with bioactivity)	None	Ok

07.0 8.20 20	Bioi sos teri sm con tinu ed, Infl uen ce of bioi sos teri sm ove r cla ssifi cati on of dru gs, syn thet ic tric ks n me d che m	Sam e as left	<a href="https://www.youtube.com/watch?v=zSXzZMHLLO0&amp;feature=youtu.be">https://www.youtube.com/watch?v=zSXzZMHLLO0&amp;feature=youtu.be</a>	<a href="https://drive.google.com/file/d/1yPTfUBhmKNm-ab73QNOhR3lv8-5-1xPo/view?usp=sharing">https://drive.google.com/file/d/1yPTfUBhmKNm-ab73QNOhR3lv8-5-1xPo/view?usp=sharing</a>  (There is series of youtube videos namely Retrosynthesis part 1 to Part 4- I strongly recommend to go through the series for learning retrosynthesis)	None	Ok
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08.08.20	Anti-histaminic drugs	Introduction to Antihistaminic drugs	<a href="https://www.youtube.com/watch?v=gnBPEzuWWoM&amp;feature=youtu.be">https://www.youtube.com/watch?v=gnBPEzuWWoM&amp;feature=youtu.be</a>	<a href="https://drive.google.com/file/d/17Ni9RjK7-DKHdrFt-uWCYdaTuOvbfOKG/view?usp=sharing">https://drive.google.com/file/d/17Ni9RjK7-DKHdrFt-uWCYdaTuOvbfOKG/view?usp=sharing</a>	None	Ok
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### Supplemental Material for Reference and Self Study

Date	Module (as per Lesson Plan)	Topic	Live Recording Link	Powerpoint Presentation Link	Supplementary Notes / Resources	Remarks, if any
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		Antihi stami nic drugs			<a href="https://drive.google.com/file/d/11h1En67NqI3e4mx1407ZchrsjCu2rHNR/view?usp=sharing">https://drive.google.com/file/d/11h1En67NqI3e4mx1407ZchrsjCu2rHNR/view?usp=sharing</a>  (Medicinal Chemistry Book by Asutosh Kar)  <a href="https://drive.google.com/file/d/1GqNktHQ0EqBH_NoNWbWX08UyHrYaGiSy/view?usp=sharing">https://drive.google.com/file/d/1GqNktHQ0EqBH_NoNWbWX08UyHrYaGiSy/view?usp=sharing</a>  (Book by Wilson and Gisvold)  <a href="https://drive.google.com/file/d/1CfwyGwnENmUOh8m81uV698kqIDMF8Gql/view?usp=sharing">https://drive.google.com/file/d/1CfwyGwnENmUOh8m81uV698kqIDMF8Gql/view?usp=sharing</a>	
14.08.2020		Antihi stami nic drugs	<a href="https://www.youtube.com/watch?v=BJtdj67qMps&amp;feature=youtu.be">https://www.youtube.com/watch?v=BJtdj67qMps&amp;feature=youtu.be</a>	<a href="https://drive.google.com/file/d/17Ni9RjK7-DKHdrFtuWCYdaTuOvbfOKG/view?usp=sharing">https://drive.google.com/file/d/17Ni9RjK7-DKHdrFtuWCYdaTuOvbfOKG/view?usp=sharing</a>	<a href="https://drive.google.com/file/d/11h1En67NqI3e4mx1407ZchrsjCu2rHNR/view?usp=sharing">https://drive.google.com/file/d/11h1En67NqI3e4mx1407ZchrsjCu2rHNR/view?usp=sharing</a>	

21.08.2020		Antihi stami nic drugs	<a href="https://www.youtube.com/watch?v=YHNRBxTSklc&amp;feature=youtu.be">https://www.youtube.com/watch?v=YHNRBxTSklc&amp;feature=youtu.be</a>	https://drive.google.com/file/d/17Ni9RjK7-DKHdrFt-uWCYdaTuOvbfOKG/view?usp=sharing	https://drive.google.com/file/d/11h1En67Nql3e4mx1407ZchrsjCu2rHNR/view?usp=sharing	OK
22.08.2020		Antihi stami nic drugs	<a href="https://www.youtube.com/watch?feature=youtu.be&amp;v=TaOwAGv_TmM&amp;app=desktop">https://www.youtube.com/watch?feature=youtu.be&amp;v=TaOwAGv_TmM&amp;app=desktop</a>	https://drive.google.com/file/d/17Ni9RjK7-DKHdrFt-uWCYdaTuOvbfOKG/view?usp=sharing	https://drive.google.com/file/d/11h1En67Nql3e4mx1407ZchrsjCu2rHNR/view?usp=sharing	OK
27.08.2020		Do	<a href="https://www.youtube.com/watch?v=EliGe2Z-9NA&amp;feature=youtu.be">https://www.youtube.com/watch?v=EliGe2Z-9NA&amp;feature=youtu.be</a>	https://drive.google.com/file/d/17Ni9RjK7-DKHdrFt-uWCYdaTuOvbfOKG/view?usp=sharing	Do	Ok

28.08.2020		Do	<a href="https://www.youtube.com/watch?v=DjLzsaWO4hM&amp;feature=youtu.be">https://www.youtube.com/watch?v=DjLzsaWO4hM&amp;feature=youtu.be</a>	<a href="https://drive.google.com/file/d/1R6FxpO4Ti_9CDhckiSMDjuSP-etdHi/view?usp=sharing">https://drive.google.com/file/d/1R6FxpO4Ti_9CDhckiSMDjuSP-etdHi/view?usp=sharing</a>	<p>Do Plus</p> <p>For SAR and mechanism of Antihistaminic drugs please follow this study material:</p> <p><a href="https://drive.google.com/file/d/1waTPX5xpcW36pAXZxP-2xrN9DI7QYbiY/view?usp=sharing">https://drive.google.com/file/d/1waTPX5xpcW36pAXZxP-2xrN9DI7QYbiY/view?usp=sharing</a></p>	OK
4.09.2020	Steroids (Drug acting on Endocrine gland)	Steroids (Drug acting on Endocrine gland)	<a href="https://www.youtube.com/watch?reload=9&amp;v=z5L6QuD-x1E&amp;feature=youtu.be">https://www.youtube.com/watch?reload=9&amp;v=z5L6QuD-x1E&amp;feature=youtu.be</a>		<a href="https://drive.google.com/file/d/15PVkWSzPb8Pg_ZVTAo-rDax4MtbOGIYX/view?usp=sharing">https://drive.google.com/file/d/15PVkWSzPb8Pg_ZVTAo-rDax4MtbOGIYX/view?usp=sharing</a>	For a good reading on the topic of steroids, please go through the Wilson and Gisvold book (from pg 819), whose link I have posted above

11.09.2020	Nomenclature and stereochemistry of steroids	Do	<a href="https://www.youtube.com/watch?v=WdqmC1DJ5lc&amp;feature=youtu.be">https://www.youtube.com/watch?v=WdqmC1DJ5lc&amp;feature=youtu.be</a>		do	do
12.09.2020	Do	Do	<a href="https://www.youtube.com/watch?v=Th2eeHCUDJw&amp;feature=youtu.be">https://www.youtube.com/watch?v=Th2eeHCUDJw&amp;feature=youtu.be</a>		Do	Do
19.09.2020	Do	Do	<a href="https://www.youtube.com/watch?feature=youtu.be&amp;v=hk0tF2kq2mA&amp;app=desktop">https://www.youtube.com/watch?feature=youtu.be&amp;v=hk0tF2kq2mA&amp;app=desktop</a>		Do	Do
26.09.2020	Metabolism and excretion of steroids, structures of common steroids	Do	<a href="https://www.youtube.com/watch?v=PpAbdxTVZ7g&amp;feature=youtu.be">https://www.youtube.com/watch?v=PpAbdxTVZ7g&amp;feature=youtu.be</a>	<a href="https://drive.google.com/file/d/1UtUIR2L_-3vTU82EP2mxz9At7PO2uzNA/view?usp=sharing">https://drive.google.com/file/d/1UtUIR2L_-3vTU82EP2mxz9At7PO2uzNA/view?usp=sharing</a>	Books posted above. Follow the books	NO

4.12.2020	Introduction to Antithyroid drugs, anatomy and physiology, structure of antithyroid drugs	Do	<a href="https://www.youtube.com/watch?v=hty9usALlqs&amp;feature=youtu.be">https://www.youtube.com/watch?v=hty9usALlqs&amp;feature=youtu.be</a>	<a href="https://drive.google.com/file/d/1Q8QgfwT_HY9eZ8fQRr-RsyuUs8hporU0/view?usp=sharing">https://drive.google.com/file/d/1Q8QgfwT_HY9eZ8fQRr-RsyuUs8hporU0/view?usp=sharing</a>  <a href="https://drive.google.com/file/d/1Pa4wiuJjvqaRnEt0Lcz6pKx3iZz3yEzI/view?usp=sharing">https://drive.google.com/file/d/1Pa4wiuJjvqaRnEt0Lcz6pKx3iZz3yEzI/view?usp=sharing</a>  <a href="https://drive.google.com/file/d/1_rMD7m3lhsoaBsCJHm7JWD-JAIEz5kw/view?usp=sharing">https://drive.google.com/file/d/1_rMD7m3lhsoaBsCJHm7JWD-JAIEz5kw/view?usp=sharing</a>	Do	NO
5.12.2020	Synthesis of L-thyroxine, L-thyronine, antithyroid drugs,	Chemistry of Endocrine glands	<a href="https://youtu.be/LEzGx7T7uO0">https://youtu.be/LEzGx7T7uO0</a>	Do	Do	OK

11.12.2020	Introduction to Local anaesthetics	Local Anaesthetics	<a href="https://youtu.be/v9qf1WVZ3c8">https://youtu.be/v9qf1WVZ3c8</a>	<a href="https://drive.google.com/file/d/1ELOs3Zg7fFUf5e5GOx1sub5hqz8EyHPR/view?usp=sharing">https://drive.google.com/file/d/1ELOs3Zg7fFUf5e5GOx1sub5hqz8EyHPR/view?usp=sharing</a>	<a href="https://drive.google.com/file/d/1yft9cqSnipc9GS2ZgaUa3TTG8DP9jEyn/view?usp=sharing">https://drive.google.com/file/d/1yft9cqSnipc9GS2ZgaUa3TTG8DP9jEyn/view?usp=sharing</a>	OK
12.12.2020	Structural deconvolution of different class of local anaesthetics	Do	<a href="https://youtu.be/z9zprWz-Gio">https://youtu.be/z9zprWz-Gio</a>	Do	Do	OK
18.12.2020	Synthesis of local anaesthetics	Do	<a href="https://youtu.be/1CuwQTL6E">https://youtu.be/1CuwQTL6E</a>	Do	Do	OK
19.12.2020	Synthesis of local anaesthetics (Continued)	Do	<a href="https://youtu.be/c2W9eC-whnM">https://youtu.be/c2W9eC-whnM</a>	Do	<a href="https://drive.google.com/file/d/1fCoGbxNGyxxtWyr0k6S5sHhukcQIPG2B/view?usp=sharing">https://drive.google.com/file/d/1fCoGbxNGyxxtWyr0k6S5sHhukcQIPG2B/view?usp=sharing</a>	OK
15.01.2020	Antidiabetic drugs	Antidiabetic agents	<a href="https://youtu.be/getSNRFhYFI">https://youtu.be/getSNRFhYFI</a>	<a href="https://drive.google.com/file/d/1WNWZPNkKfsTYAq5qhOityhD6sCldqXfl/view?usp=sharing">https://drive.google.com/file/d/1WNWZPNkKfsTYAq5qhOityhD6sCldqXfl/view?usp=sharing</a>		Ok

16.01.2021	Antidiabetic agents	do	<a href="https://youtu.be/mfRlaly4X_ww">https://youtu.be/mfRlaly4X_ww</a>	<a href="https://drive.google.com/file/d/1WNWZPNkKfsTYAq5qhOityhD6sCldqXfl/view?usp=sharing">https://drive.google.com/file/d/1WNWZPNkKfsTYAq5qhOityhD6sCldqXfl/view?usp=sharing</a>		OK
22.01.2021	do	do	<a href="https://youtu.be/1Avww6MHBA0">https://youtu.be/1Avww6MHBA0</a>	<a href="https://drive.google.com/file/d/1WNWZPNkKfsTYAq5qhOityhD6sCldqXfl/view?usp=sharing">https://drive.google.com/file/d/1WNWZPNkKfsTYAq5qhOityhD6sCldqXfl/view?usp=sharing</a>		ok
29.01.2021	do	do	<a href="https://youtu.be/6UCnQfDp14w">https://youtu.be/6UCnQfDp14w</a>	<a href="https://drive.google.com/file/d/110GpW1pEOca0RDD2ae2e3zdPI3gIHBqj/view?usp=sharing">https://drive.google.com/file/d/110GpW1pEOca0RDD2ae2e3zdPI3gIHBqj/view?usp=sharing</a>		ok
30.01.2021	do	do	<a href="https://youtu.be/57hOEn6aoc">https://youtu.be/57hOEn6aoc</a>	<a href="https://drive.google.com/file/d/110GpW1pEOca0RDD2ae2e3zdPI3gIHBqj/view?usp=sharing">https://drive.google.com/file/d/110GpW1pEOca0RDD2ae2e3zdPI3gIHBqj/view?usp=sharing</a>		OK

5.2.2021	Antihyperlipidemic agents		<a href="https://youtu.be/lu68XNVub7U">https://youtu.be/lu68XNVub7U</a>	<a href="https://drive.google.com/file/d/1dKwn2r_ierjA46FQkOxEQdlq0jMwShC/view?usp=sharing">https://drive.google.com/file/d/1dKwn2r_ierjA46FQkOxEQdlq0jMwShC/view?usp=sharing</a>	<a href="https://drive.google.com/file/d/1VKG3lwVThYxeTCD3LwxT8pV2BU2xXegD/view?usp=sharing">https://drive.google.com/file/d/1VKG3lwVThYxeTCD3LwxT8pV2BU2xXegD/view?usp=sharing</a>	
6.2.2021	Antihyperlipidemic agents (continued)+Anticoagulants		<a href="https://youtu.be/Ufw7euRXM8Y">https://youtu.be/Ufw7euRXM8Y</a>	Do+ <a href="https://drive.google.com/file/d/1MAL5KV3QYP70K7FtNhZOzKsMwqun6Zul/view?usp=sharing">https://drive.google.com/file/d/1MAL5KV3QYP70K7FtNhZOzKsMwqun6Zul/view?usp=sharing</a>		
13.2.2021	Anticoagulants		<a href="#">BCRCP VIRTUAL PLATFORM's Zoom Meeting - YouTube</a>	Same study material		