

**Academic Session – 2016-17**  
**Department – Chemistry**  
**Teacher's Name – Nilima Das**

Year	Hons /Pass	Paper	Subject	Subject Contains	No of Classes	Required time for Teacher	Teaching Methods	List of Reference Books
1 <sup>st</sup> year	pass	I	Organic Chemistry	<b>Unit</b>			Lecture	1. Organic Chemistry – P.B. Sarkar 2. Jabiba Rasayan – S.P. Banarjee 3. Jabiba Rasayan – Roy and Sengupta
				<b>1. Effects</b>	4L	12.07.16 - 09.08.16		
				<b>2. Aliphatic Compound</b>		10.08.16 – 31.01.17		
				a. IUPAC nomenclature	4L			
				b. Stereo Chemistry	8L			
				c. Alkanes	3L			
				d. Alkyl halides	3L			
e. Alkene, alkyne	6L							
f. Mono hydric alcohols	3L							
g. Ether	3L							
h. Aldehydes and ketones	8L							
i. Fatty acids	2L							
j. Nitrogen containing compound	4L							
k. Oxalic acid, malonic acid etc. acids	4L							
<b>3. carbohydrates</b>	8L	06.02.17 – 21.02.17						
<b>4. preparation and synthetic use</b>	8L	22.02.17 – 15.03.17						
<b>5. i. Aromaticity</b>	2L	20.03.17 – 15.05.17						
ii. Preparation, properties etc.	3L							
a. halogen derivative	3L							
b. nitrobenzene	4L							
c. Aniline etc.	4L							
d. Benzene diazonium salt etc.	4L							
e. Benzyl alcohol etc	4L							
f. Phenols	8L							

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2 <sup>nd</sup> year	pass	II	Physical Chemistry	<b>Unit</b>			Lecture	1. Physical Chemistry – Dr. Arimdak Kr. Mandal, Dr. Samir Kr. Mandal 2. Physical Chemistry – P.C. Rakshit
				1. Gaseous state of matter	6L	22.08.16 – 06.09.16		
				2. Thermodynamics	8L	07.09.16 – 21.09.16		
				3. Dilute Solutions	6L	03.10.16 – 09.11.06		
				4. Chemical kinetics	4L	15.11.16 – 29.11.16		
				5. catalysis	4L	30.11.16 – 07.12.16		
				6. Electro chemistry	4L	12.12.16 – 20.12.16		
				7. Colloidal State	4L	16.01.17 – 19.01.17		
				8. Liquid State	4L	15.02.17 – 15.03.17		
2 <sup>nd</sup> year	pass	III	Practical Chemistry for General Course	1. In organic quantitative analysis a. Basic Radicals	10L	09.11.16 – 12.12.16	Lecture, Experimental	1. Snatakia Babaharik Rasayan – Subhas Ch.Das, Sripati B. Chakraborti. 2. An Advance Course in Practical Chemistry – A.K. Nad, B. Mahapatra and A Ghosal
				b. Acid Radicals	10L	14.12.16 – 11.01.17		
				2. In organic quantitative analysis	10L	16.01.17 – 15.02.17		
				3. Quantitative analysis of Single Organic compounds	10L	20.02.17 – 20.03.17		
				4. Organic preparation	9L	21.03.17 – 29.03.17		

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3 <sup>rd</sup> year	pass	IV	Applied Chemistry	<b>Gr. - A</b>			Lecture	1. Applied Chemistry – Dr. Ahindra Kr. Mandal, Dr. Samir Kumar Mandal 2. Praygnitha Rasayan – S. Sengupta
				1. Chemical separation process	8L	16.08.16 – 21.09.16		
				2. Manufacturing of some important Industrial Products	8L	03.10.16 – 05.12.16		
				3. Petroleum distillation Process	7L	06.12.16 – 02.01.17		
				4. Synthesis of dye and use	8L	02.01.17 – 25.01.17		
				5. Food additives	6L	30.01.17 – 03.02.17		
				6. Pesticides	7L	14.02.17 – 28.02.17		
				<b>Gr. – B – Practical Chemistry</b>			Lecture, Experimental	1. Course in Practical Chemistry – A. K. Nad, B. Mahapatra and A. Ghosal 2. Snatakia Babaharik Rasayan – Subhas Ch.Das, Sripati B. Chakraborti
				1. Estimation of total hard uses o water	6L	02.11.16 – 29.11.16		
				2. Estimation of available oxygen in pyrolusite	5L	30.11.16 – 12.12.16		
				3. Cement analysis	5L	03.01.17 – 11.01.17		
				4. Separation of chemicals	5L	16.01.17 – 30.01.17		
				5. Determination of the strength of the H <sub>2</sub> O <sub>2</sub> sample	8L	31.01.17 – 28.02.17		