

The following shall be the courses of the studies under CBCS pattern

**M.Sc – I (Organic Chemistry) C B C S PATTERN (2018-19)**

**S E M E S T E R – I (Duration – 6 Months)**

Sr. No	Course Title	Teaching Scheme						Examination scheme										
		Theory			Practical			Theory			Internal			Total		Practical (CPPR)		
		No. of lectures	Hours	Credits	No. of Lectures	Hours	Credits	Max.	Min.	Hours	Max.	Min.	Hours	Max.	Min.	Max.	Min.	Hours
1	CP-131A	4	4	4	16	16	8	80	32	3	20	8	1	100	40	100	40	16
2	CP-132A	4	4	4				80	32	3	20	8	1	100	40			
3	CP-133A	4	4	4				80	32	3	20	8	1	100	40			
4	CP-134A	4	4	4				80	32	3	20	8	1	100	40			
<b>Total</b>		16	16	<b>16</b>	16	16	<b>8</b>	320			80	-		400	-	200	80	16
<b>Semester-II(duration 6 months)</b>																		
6	CP-137B	4	4	4	16	16	8	80	32	3	20	8	1	100	40	100	40	16
7	CP-138B	4	4	4				80	32	3	20	8	1	100	40			
8	CP-139B	4	4	4				80	32	3	20	8	1	100	40			
9	CP-140B	4	4	4				80	32	3	20	8	1	100	40			
		16	16	<b>16</b>	16	16	<b>8</b>	320			80	-		400	-	200	80	16
<b>Total</b>		32	32	<b>32</b>	16	16	<b>16</b>	640			160			800		400		

<ul style="list-style-type: none"> <li>• Student contact hours per week : 32 Hours (Min.)</li> </ul>	<ul style="list-style-type: none"> <li>• Total Marks for M.Sc.-I : <b>1200</b></li> </ul>
<ul style="list-style-type: none"> <li>• Theory Lectures : 60 Minutes Each</li> </ul>	<ul style="list-style-type: none"> <li>• Total Credits for M.Sc.-I (Semester I &amp; II) : <b>48</b></li> </ul>
<ul style="list-style-type: none"> <li>• CP-Core Paper</li> <li>• CPPR-Core Paper Practical</li> <li>• Course list as per enclosed Annexure.</li> </ul>	
<ul style="list-style-type: none"> <li>• Practical Examination is Semester wise.</li> </ul>	
<ul style="list-style-type: none"> <li>• <i>Separate passing is mandatory for Theory, Internal and Practical.</i></li> </ul>	

The following shall be the courses of the studies under CBCS pattern  
**M.Sc – II (Organic Chemistry) C B C S PATTERN (2019-20)**

**S E M E S T E R – III (Duration – 6 Months)**

Sr. No	Course Title	Teaching Scheme						Examination scheme											
		Theory			Practical			Theory						Internal			Total		Practical (CPPR)
		No. of lectures	Hours	Credits	No. of Lectures	Hours	Credits	Max.	Min.	Hours	Max.	Min.	Hours	Max.	Min.	Max.	Min.	Hours	
1	CP-143C	4	4	4	16	16	8	80	32	3	20	8	1	100	40	100	40	16	
2	CBP-144C	4	4	4				80	32	3	20	8	1	100	40				
3	CP-145C	4	4	4				80	32	3	20	8	1	100	40				
4	CP-146C	4	4	4				80	32	3	20	8	1	100	40				
<b>Total</b>		16	16	<b>16</b>	16	16	<b>8</b>	320			80	-		400	-	200		16	
<b>Semester-IV (duration 6 months)</b>																			
6	CP-149D	4	4	4	16	16	8	80	32	3	20	8	1	100	40	100	40	16	
7	CBP-150D	4	4	4				80	32	3	20	8	1	100	40				
8	CP-151D	4	4	4				80	32	3	20	8	1	100	40				
9	CP-152D	4	4	4				80	32	3	20	8	1	100	40				
		16	16	<b>16</b>	16	16	<b>8</b>	320			80	-		400	-	200		16	
<b>Total</b>		32	32	<b>32</b>	16	16	<b>16</b>	640			160			800		400			

<ul style="list-style-type: none"> <li>• Student contact hours per week : 16 Hours (Min.)</li> </ul>	<ul style="list-style-type: none"> <li>• Total Marks for M.Sc.-II : <b>1200</b></li> </ul>
<ul style="list-style-type: none"> <li>• Theory Lectures : 60 Minutes Each</li> </ul>	<ul style="list-style-type: none"> <li>• Total Credits for M.Sc.-II (Semester III &amp; IIV) : <b>48</b></li> </ul>
<ul style="list-style-type: none"> <li>• CP-Core Paper CBP-Choice Base Paper</li> <li>• Course list as per enclosed Annexure.</li> </ul>	
<ul style="list-style-type: none"> <li>• Practical Examination is semester wise</li> <li>• CPPR-Core Paper Practical.</li> </ul>	<ul style="list-style-type: none"> <li>• <b><u>Total Credits for M.Sc. Course : 96</u></b></li> </ul>
<ul style="list-style-type: none"> <li>• <i>Separate passing is mandatory for Theory, Internal and practical.</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b><u>Total Marks for M.Sc. Course : 2400</u></b></li> </ul>

**Annexure**

M.Sc. (Chemistry) (Part-I)  
CORE PAPER (COMPULSORY)

<b>M.Sc. (Chemistry) Part -I Semester-I (Total Credits = 24)</b>		
<b>Paper Code</b>	<b>Paper Title</b>	<b>Credits</b>
CP-131A	Inorganic Chemistry-I	4
CP-132A	Organic Chemistry-I	4
CP-133A	Physical Chemistry-I	4
CP-134A	Analytical Chemistry-I	4
CPPR-135A (Practical)	Inorganic + Organic	4
CPPR-136A (Practical)	Physical + Analytical	4
<b>M.Sc. (Chemistry) Part -I Semester II (Total Credits = 24)</b>		
<b>Paper Code</b>	<b>Paper Title</b>	<b>Credits</b>
CP-137B	Inorganic Chemistry-II	4
CP-138B	Organic Chemistry-II	4
CP-139B	Physical Chemistry-II	4
CP-140B	Analytical Chemistry-II	4
CPPR-141B (Practical)	Inorganic + Organic	4
CPPR-142B (Practical)	Physical + Analytical	4

M.Sc. (Organic Chemistry) (Part-II)  
CORE PAPER (COMPULSORY)

<b>M.Sc. (Organic Chemistry) Part -II Semester-III (Total Credits = 24)</b>		
<b>Paper Code</b>	<b>Paper Title</b>	<b>Credits</b>
CP-143C	Organic Reaction Mechanism	4
CBP-144C	Advanced Spectroscopic Methods	4
CBP-145C	Advanced Synthetic Methods	4
CBP-146C	Drugs and Heterocycles	4
CPPR-147C(Practical)	Ternary Mixture analysis +Journal	4
CPPR-148C( Practical)	Preparation+Spectral Problems+ oral	4

<b>M.Sc. (Organic Chemistry) Part -II Semester-IV (Total Credits = 24)</b>		
<b>Paper Code</b>	<b>Paper Title</b>	<b>Credits</b>
CP-149D	Theoretical Organic Chemistry	4
CBP-150D	Stereochemistry	4
CBP-151D	Chemistry of Natural Products	4

<b>Elective Paper</b>		
CBP-152D	Applied Organic Chemistry	4
<b>Elective CBCS Paper</b>		
CP-152D	Bio-organic Chemistry	4
CPR 153D(Practical Lab-V)	Preparation Step I and II + Estimation + Journal	4
CPR154D(Practical Lab-VI)	Project + Preparation Step III+Oral	4