

MAHAKAUSHAL UNIVERSITY JABALPUR

**As per model syllabus of U.G.C. New Delhi, drafted by
Central Board of Studies and Approved by Higher
Education and the Governor of M.P.**



Faculty of Science
Scheme & Prescribed Books
Subject- Chemistry
M.Sc. Semester Examination
I to IV Semester

COURSEWISE SCHEME

Ist SEMESTER

1. Course Code	: MCHE	6. Total Theory Marks	: 250
2. Course Name	: M.Sc. Chemistry	7. Total Practical	: 3
3. Total Theory Subject	: 5	8. Total Practical Marks	: 150
4. Compulsory Subject	: 4	9. Total Marks	: 400
5. Optional Subject	: 1	10. Minimum Passing Percentage	: 36

Sub. Code	Subject Name	Theory										Practical		Total	
		Paper					CC E		Total Marks		Max.	Min.	Max.	Min.	
		1st	2nd	3rd	Max.	Min.	Max.	Min.	Max.	Min.					
Compulsory															
MCHE 0101-T	Inorganic Chemistry-I	42	0	0	42	15	8	3	50	18	0	0	50	18	
MCHE 0102-T	Organic Chemistry-I	42	0	0	42	15	8	3	50	18	0	0	50	18	
MCHE 0103-T	Physical Chemistry-I	42	0	0	42	15	8	3	50	18	0	0	50	18	
MCHE 0104-T	Spectroscopy-I	42	0	0	42	15	8	3	50	18	0	0	50	18	
Optional Select any one															
MCHE 0105(A)-T	Mathematics for Chemists (for Students without mathematics in B.Sc.)	42	0	0	42	15	8	3	50	18	0	0	50	18	
MCHE 0105(B)-T	Biology for Chemists (for Students without Biology in B.Sc.)	42	0	0	42	15	8	3	50	18	0	0	50	18	
Compulsory															
MCHE 0101-P	Practical-I Inorganic Chemistry	0	0	0	0	0	0	0	0	0	50	20	50	20	
MCHE 0102-P	Practical-II Organic Chemistry	0	0	0	0	0	0	0	0	0	50	20	50	20	
MCHE 0103-P	Practical-III Physical Chemistry	0	0	0	0	0	0	0	0	0	50	20	50	20	

COURSEWISE SCHEME

IIND SEMESTER

1. Course Code	: MCHE	6. Total Theory Marks	: 250
2. Course Name	: M.Sc.	7. Total Practical	: 3
3. Total Theory Subject	: 5	8. Total Practical Marks	: 150
4. Compulsory Subject	: 4	9. Total Marks	: 400
5. Optional Subject	: 1	10. Minimum Passing Percentage	: 36

Sub. Code	Subject Name	Theory										Practical		Total	
		Paper					CC E		Total Marks			Max.	Min.	Max.	Min.
		1st	2nd	3rd	Max.	Min.	Max.	Min.	Max.	Min.					
Compulsory															
MCHE 0201-T	Inorganic Chemistry-II	42	0	0	42	15	8	3	50	18	0	0	50	18	
MCHE 0202-T	Organic Chemistry-II	42	0	0	42	15	8	3	50	18	0	0	50	18	
MCHE 0203-T	Physical Chemistry-II	42	0	0	42	15	8	3	50	18	0	0	50	18	
MCHE 0204-T	Spectroscopy-II	42	0	0	42	15	8	3	50	18	0	0	50	18	
Optional															
MCHE 0205-T	Computers for Chemists	42	0	0	42	15	8	3	50	18	0	0	50	18	
Compulsory															
MCHE 0201-P	Practical-I Inorganic Chemistry	0	0	0	0	0	0	0	0	0	50	20	50	20	
MCHE 0202-P	Practical-II Organic Chemistry	0	0	0	0	0	0	0	0	0	50	20	50	20	
MCHE 0203-P	Practical-III Physical Chemistry	0	0	0	0	0	0	0	0	0	50	20	50	20	

COURSEWISE SCHEME IIIrd SEMESTER

1. Course Code	: MCHE	6. Total Theory Marks	: 250
2. Course Name	: M.Sc. Chemistry	7. Total Practical	: 3
3. Total Theory Subject	: 5	8. Total Practical Marks	: 150
4. Compulsory Subject	: 4	9. Total Marks	: 400
5. Optional Subject	: 1	10. Minimum Passing Percentage	: 36

Sub. Code	Subject Name	Theory										Practical		Total	
		Paper					CCE		Total Marks		Max.	Min.	Max.	Min.	
		1st	2nd	3rd	Max.	Min.	Max.	Min.	Max.	Min.					
Compulsory															
MCHE 0301-T	Application Of Spectroscopy-I	42	0	0	42	15	8	3	50	18	0	0	50	18	
MCHE 0302-T	Photochemistry	42	0	0	42	15	8	3	50	18	0	0	50	18	
MCHE 0303-T	Environmental Chemistry	42	0	0	42	15	8	3	50	18	0	0	50	18	
Optional Select any one															
MCHE 0304(A)-T	Polymers	42	0	0	42	15	8	3	50	18	0	0	50	18	
MCHE 0304(B)-T	Heterocyclic chemistry	42	0	0	42	15	8	3	50	18	0	0	50	18	
Compulsory															
MCHE 0305-P	Practical-I Inorganic Chemistry	0	0	0	0	0	0	0	0	0	50	20	50	20	
MCHE 0306-P	Practical-II Organic Chemistry	0	0	0	0	0	0	0	0	0	50	20	50	20	
MCHE 0307-P	Practical-III Physical Chemistry	0	0	0	0	0	0	0	0	0	50	20	50	20	

COURSEWISE SCHEME

IVth SEMESTER

1. Course Code	: MCHE	7. Total Practical	: 3
2. Course Name	: M.Sc. Chemistry	8. Total Practical Marks	: 150
3. Total Theory Subject	: 5	9. Project Marks	: 100
4. Compulsory Subject	: 4	10. Total Marks	: 500
5. Optional Subject	: 1	11. Minimum Passing Percentage	: 36
6. Total Theory Marks	: 250		

Sub. Code	Subject Name	Theory									Practical		Total	
		Paper					CCE		Total Marks		Max.	Min.	Max.	Min.
1st	2nd	3rd	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.				
Compulsory														
MCHE 0401-T	Application Of Spectroscopy-II	42	0	0	42	15	8	3	50	18	0	0	50	18
MCHE 0402-T	Solid State Chemistry	42	0	0	42	15	8	3	50	18	0	0	50	18
MCHE 0403-T	Biochemistry	42	0	0	42	15	8	3	50	18	0	0	50	18
Optional Select any one														
MCHE 0404(A)-T	Analytical Chemistry	42	0	0	42	15	8	3	50	18	0	0	50	18
MCHE 0404(B)-T	Pesticides & Glass Industries	42	0	0	42	15	8	3	50	18	0	0	50	18
Compulsory														
MCHE 0405-P	Practical-I Inorganic Chemistry	0	0	0	0	0	0	0	0	0	50	20	50	20
MCHE 0406-P	Practical-II Organic Chemistry	0	0	0	0	0	0	0	0	0	50	20	50	20
MCHE 0407-P	Practical-III Physical Chemistry	0	0	0	0	0	0	0	0	0	50	20	50	20
MCHE 0408-P	Project Work	0	0	0	0	0	0	0	100	40	0	0	100	40