

GANPAT UNIVERSITY

FACULTY OF SCIENCE

Teaching Scheme, Examination Scheme

&

Syllabus

M.Sc. Chemistry (Organic Chemistry)

Semester I to IV

(Effective from July 2021)

GANPAT UNIVERSITY**FACULTY OF SCIENCE****REVISION OF TEACHING & EXAMINATION SCHEME AND SYLLABUS**

Programme	Masters of science	Branch/Spec.	Organic Chemistry			
Semester	I	Academic Council Approved Syllabus (in which the revision is carried out)	Notification No			
			Date		01-03-2021	
Effective from Academic Year		2021-22	Effective for the batch Admitted in		July 2021	
Subject code	Subject Name	Revision in Full Syllabus (Yes/No)	Revision in Teaching Scheme(Yes/No)	Revision in Exam Scheme(Yes/No)	Revision in Content (Yes/No)	Percentage of changes if content revision
MCHE1IOC	Inorganic Chemistry-I					
MCHE1ORC	Organic Chemistry-I					
MCHE1PHC	Physical Chemistry-I					
MCHE1SST	Selected Spectroscopic Techniques-I					
	*Elective					
MCHE1PRA	Practical Module-I					

NEED OF REVISION:

New Syllabus implemented as per UGC guidelines.

*Any one subject can be offered from the following list of elective subjects

Sr. No.	Subject Code	Subject Name
1	MELE1NCH	Nano-Chemistry
2	MELE1CRG	Chromatography-I
3	MELE1IDC	Industrial Chemistry-I
4	MOOCs Courses from SWAYAM PORTAL	

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TEACHING AND EXAMINATION SCHEME

Programme		Masters of Science			Branch/Spec.		Organic Chemistry													
Semester		I																		
Effective from Academic Year				2021-22		Effective for the batch Admitted in								July 2021						
Sr. No.	Subject Code	Subject Name	Teaching scheme												Examination scheme (Marks)					
			Credit						Hours (per week)						Theory			Practical		
			Lecture(DT)			Practical(Lab.)			Lecture(DT)			Practical(Lab.)			CE	SEE	Total	CE	SEE	Total
			L	TU	Total	P	Total	L	TU	Total	P	TW	Total							
1	MCHE1IOC	Inorganic Chemistry-I	4	--	4	--	--	4	--	4	--	--	--	40	60	100	--	--	--	
2	MCHE1ORC	Organic Chemistry-I	4	--	4	--	--	4	--	4	--	--	--	40	60	100	--	--	--	
3	MCHE1PHC	Physical Chemistry-I	4	--	4	--	--	4	--	4	--	--	--	40	60	100	--	--	--	
4	MCHE1SST	Selected Spectroscopic Techniques-I	4	--	4	--	--	4	--	4	--	--	--	40	60	100	--	--	--	
5	--	Elective*	2	-	2	--	--	2	-	2	--	--	--	40	60	100	--	--	--	
6	MCHE1PRA	Practical Module-I	--	--	--	06	06	--	--	--	--	--	12	--	--	--	--	200	200	
Total			18	--	18	06	06	18	--	18	--	--	12	200	300	500	--	200	200	

*Any one subject can be offered from the following list of elective subjects

Sr. No.	Subject Code	Subject Name
1	MELE1NCH	Nano-Chemistry
2	MELE1CRG	Chromatography-I
3	MELE1IDC	Industrial Chemistry-I
4	MOOCs Courses from SWAYAM PORTAL	

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REVISION OF TEACHING & EXAMINATION SCHEME AND SYLLABUS

Programme	Masters of science	Branch/Spec.	Organic Chemistry			
Semester	II	Academic Council Approved Syllabus (in which the revision is carried out)			Notification No	
					Date	01-03-2021
Effective from Academic Year		2021-22	Effective for the batch Admitted in		July 2021	
Subject code	Subject Name	Revision in Full Syllabus (Yes/No)	Revision in Teaching Scheme(Yes/No)	Revision in Exam Scheme(Yes/No)	Revision in Content (Yes/No)	Percentage of changes if content revision
MCHE2IOC	Inorganic Chemistry-II					
MCHE2ORC	Organic Chemistry-II					
MCHE2PHC	Physical Chemistry-II					
MCHE2SST	Selected Spectroscopic Techniques-II					
	Elective*					
MCHE2PRA	Practical Module-II					
NEED OF REVISION:						
New Syllabus implemented as per UGC guidelines.						

*Any one subject can be offered from the following list of elective subjects

Sr. No.	Subject Code	Subject Name
1	MELE2RMD	Research Methodology
2	MELE2CRG	Chromatography-II
3	MELE2IDC	Industrial Chemistry-II
4	MOOCs Courses from SWAYAM PORTAL	

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TEACHING AND EXAMINATION SCHEME

Programme		Masters of Science			Branch/Spec.		Organic Chemistry												
Semester		II																	
Effective from Academic Year				2021-22		Effective for the batch Admitted in								July 2021					
Sr. No.	Subject Code	Subject Name	Teaching scheme											Examination scheme (Marks)					
			Credit					Hours (per week)						Theory			Practical		
			Lecture(DT)			Practical(Lab.)		Lecture(DT)			Practical(Lab.)			CE	SEE	Total	CE	SEE	Total
			L	TU	Total	P	Total	L	TU	Total	P	TW	Total						
1	MCHE2IOC	Inorganic Chemistry-II	4	--	4	--	--	4	--	4	--	--	--	40	60	100	--	--	--
2	MCHE2ORC	Organic Chemistry-II	4	--	4	--	--	4	--	4	--	--	--	40	60	100	--	--	--
3	MCHE2PHC	Physical Chemistry-II	4	--	4	--	--	4	--	4	--	--	--	40	60	100	--	--	--
4	MCHE2SST	Selected Spectroscopic Techniques-II	4	--	4	--	--	4	--	4	--	--	--	40	60	100	--	--	--
5		Elective*	2	-	2	--	--	2	-	2	--	--	--	40	60	100	--	--	--
6	MCHE2PRA	Practical Module-II	--	--	--	06	06	--	--	--	--	--	12	--	--	--	--	200	200
Total			18	--	18	06	06	18	--	18	--	--	12	200	300	500	--	200	200

*Any one subject can be offered from the following list of elective subjects

Sr. No.	Subject Code	Subject Name
1	MELE2RMD	Research Methodology
2	MELE2CRG	Chromatography-II
3	MELE2IDC	Industrial Chemistry-II
4	MOOCs Courses from SWAYAM PORTAL	

GANPAT UNIVERSITY**FACULTY OF SCIENCE****REVISION OF TECHING & EXAMINATION SCHEME AND SYLLABUS**

Programme	Masters of science	Branch/Spec.	Organic Chemistry			
Semester	III	Academic Council Approved Syllabus (in which the revision is carried out)	Notification No			
			Date		01-03-2021	
Effective from Academic Year	2020-21	Effective for the batch Admitted in	July 2021			
Subject code	Subject Name	Revision in Full Syllabus (Yes/No)	Revision in Teaching Scheme(Yes/No)	Revision in Exam Scheme(Yes/No)	Revision in Content (Yes/No)	Percentage of changes if content revision
MCHE3MDC	Medicinal Chemistry					
MCHE3AOC	Advanced Organic Chemistry					
MCHE3CNP	Chemistry of Natural Products					
MOPE3SSD	Soft Skills and Development					
MCHE3PRA	Practical Module-III					
MCHE3PRO	Project Work-I					

NEED OF REVISION:

New Syllabus implemented as per UGC guidelines.

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TEACHING AND EXAMINATION SCHEME

Programme		Masters of Science			Branch/Spec.		Organic Chemistry												
Semester		III																	
Effective from Academic Year				2020-21		Effective for the batch Admitted in								July 2021					
Sr. No.	Subject Code	Subject Name	Teaching scheme											Examination scheme (Marks)					
			Credit					Hours (per week)						Theory			Practical		
			Lecture(DT)			Practical(Lab.)		Lecture(DT)			Practical(Lab.)			CE	SEE	Total	CE	SEE	Total
			L	TU	Total	P	Total	L	TU	Total	P	TW	Total						
1	MCHE3MDC	Medicinal Chemistry	4	--	4	--	---	4	--	4	--	--	--	40	60	100	--	--	--
2	MCHE3AOC	Advanced Organic Chemistry	4	--	4	--	--	4	--	4	--	--	--	40	60	100	--	--	--
3	MCHE3CNP	Chemistry of Natural Products	4	--	4	--	--	4	--	4	--	--	--	40	60	100	--	--	--
4	MCHE3PRA	Practical Module-III	--	--	--	06	06	--	--	--	--	--	12	--	--	--	--	200	200
5	MCHE3PRO	Project Work-I	8	--	8	--	--	8	--	8	--	--	--	--	200	200	--	--	--
6	MOPE3SSD	Soft Skills and Development	2	-	2	--	--	2	-	2	--	--	--	40	60	100	--	--	--
Total			22	--	22	06	06	22	--	22	--	--	12	160	440	600	--	200	200

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REVISION OF TECHING & EXAMINATION SCHEME AND SYLLABUS

Programme	Masters of science	Branch/Spec.	Organic Chemistry			
Semester	IV	Academic Council Approved Syllabus (in which the revision is carried out)			Notification No	
					Date	01-03-2021
Effective from Academic Year		2020-21	Effective for the batch Admitted in		July 2021	
Subject code	Subject Name	Revision in Full Syllabus (Yes/No)	Revision in Teaching Scheme(Yes/No)	Revision in Exam Scheme(Yes/No)	Revision in Content (Yes/No)	Percentage of changes if content revision
MCHE4HTC	Heterocyclic Chemistry					
MCHE4OCR	Organic Chemistry Reaction					
MCHE4DSA	Disconnection Approach					
	Elective*					
MCHE4PRA	Practical Module-IV					
MCHE4PRO	Project Work-II					

NEED OF REVISION:

New Syllabus implemented as per UGC guidelines.

*Any one subject can be offered from the following list of elective subjects

Sr. No	Subject Code	Subject Name
1	MELE4IPR	Intellectual Property Rights
2	MELE4MTS	Material Science
3	MELE4ICC	Industrial Catalytic Chemistry
4	MOOCs Courses from SWAYAM PORTAL	

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Programme		Masters of Science			Branch/Spec.		Organic Chemistry												
Semester		IV																	
Effective from Academic Year				2020-21		Effective for the batch Admitted in								July 2021					
Sr. No.	Subject Code	Subject Name	Teaching scheme											Examination scheme (Marks)					
			Credit					Hours (per week)						Theory			Practical		
			Lecture(DT)			Practical(Lab.)		Lecture(DT)			Practical(Lab.)			CE	SEE	Total	CE	SEE	Total
			L	TU	Total	P	Total	L	TU	Total	P	TW	Total						
1	MCHE4HTC	Heterocyclic Chemistry	4	--	4	--	---	4	--	4	--	--	--	40	60	100	--	--	--
2	MCHE4OCR	Organic Chemistry Reaction	4	--	4	--	--	4	--	4	--	--	--	40	60	100	--	--	--
3	MCHE4DSA	Disconnection Approach	4	--	4	-	--	4	--	4	--	--	--	40	60	100	--	--	--
4	MCHE4PRA	Practical Module-IV	--	--	--	06	06	--	--	--	--	--	12	--	--	--	--	200	200
5	MCHE4PRO	Project Work-II	8	--	8	--	--	8	--	8	--	--	--	--	200	200	--	--	--
6		Elective*	2	-	2	--	--	2	-	2	--	--	--	40	60	100	--	--	--
Total			22	--	22	06	06	22	--	22	--	--	12	160	440	600	--	200	200

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2	MELE4MTS	Material Science
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