



**SCHOOL OF SCIENCE  
DEPARTMENT OF CHEMISTRY  
NEP 2020- Course structure**

**Program Name -Master of Science (Organic/ Analytical Chemistry)**

**Semester – I**

**Batch: AY 23-24 onwards**

Sr. No.	Core	Course Code	Course Name	Teaching Scheme (Hrs./Week)				Examination Scheme				Total Marks
				L	T	P	C	Formative Assessment CIA		Summative Assessment ESE		
								Course	Lab	Course	Lab	
1	PC	NRDP101	Research Methodology	4	0	0	4	50	-	100	-	100
2	PC	NPCH101	Organic Chemistry I	4	0	0	4	50	-	100	-	100
3	PC	NPCH102	Analytical Chemistry I	4	0	0	4	50	-	100	-	100
4	PE	NPCHE_	Stereochemistry and Organic Reaction Mechanism or Basic analytical laboratory techniques	4	0	0	4	50	-	100	-	100
5	PC	NPCH111	Organic Chemistry Laboratory I	0	0	4	2	-	50	-	50	100
6	PC	NPCH112	Analytical Chemistry Laboratory I	0	0	4	2	-	50	-	50	100
<b>TOTAL</b>				<b>16</b>	<b>00</b>	<b>08</b>	<b>20</b>	<b>200</b>	<b>100</b>	<b>400</b>	<b>100</b>	<b>600</b>

Course Code	Programme Elective I
NPCHE01	Stereochemistry and Organic Reaction Mechanism
NPCHE02	Basic analytical laboratory techniques

		Formative Assessment		
		CIA	Weightage	Description
<b>CIA:</b> Continuous Internal Assessment <b>L:</b> Theory Lecture <b>T:</b> Tutorial <b>P:</b> Practical <b>ESE:</b> End Semester Exam	<b>UC:</b> University Core <b>PC:</b> Programme Core <b>PE:</b> Programme Elective <b>OE:</b> Open Elective	CIA 1	10%	Home Assignment
		CIA 2	20%	Written Exam
		CIA 3	10%	Activity/Project and Research based learning along with seminar presentation
		CIA 4	10%	Behavioral Attitude +General Discipline Theory +Practical attendance
		<b>TOTAL</b>	<b>50%</b>	

*J. N. Pali*  
BoS  
Chairperson

*[Signature]*  
Dean  
SoS

*[Signature]*  
Associate Dean  
Curriculum Development

*[Signature]*  
Registrar  
SUN





**SCHOOL OF SEIENCE**  
**DEPARTMENT OF CHEMISTRY**  
**NEP 2020- Course structure**

**Program Name -Master of Science (Organic/ Analytical Chemistry)**  
**Semester – II**

**Batch: AY 23-24 onwards**

Sr. No.	Core	Course Code	Course Name	Teaching Scheme (Hrs./Week)				Examination Scheme				Total Marks
				L	T	P	C	Formative Assessment CIA		Summative Assessment ESE		
								Course	Lab	Course	Lab	
1	PC	NPCH201	Organic Chemistry II	4	0	0	4	50	-	100	-	100
2	PC	NPCH202	Analytical Chemistry II	4	0	0	4	50	-	100	-	100
3	PE	NPCH203	Spectroscopy and Separation techniques or Polymer Chemistry	4	0	0	4	50	-	100	-	100
4	PC	NPCH211	Organic Chemistry Laboratory II	0	0	4	2	-	50	-	50	100
5	PC	NPCH212	Analytical Chemistry Laboratory II	0	0	4	2	-	50	-	50	100
6	PC	NPCH213	Field Project/Internship	0	0	8	4	-	50	-	50	100
<b>TOTAL</b>				<b>12</b>	<b>00</b>	<b>16</b>	<b>20</b>	<b>150</b>	<b>150</b>	<b>300</b>	<b>150</b>	<b>600</b>

Course Code	Programme Elective II
NPCH203	Spectroscopy and Separation techniques
NPCH204	Polymer Chemistry

		Formative Assessment		
		CIA	Weightage	Description
<b>CIA:</b> Continuous Internal Assessment <b>L:</b> Theory Lecture <b>T:</b> Tutorial <b>P:</b> Practical <b>ESE:</b> End Semester Exam	<b>UC:</b> University Core <b>PC:</b> Programme Core <b>PE:</b> Programme Elective <b>OE:</b> Open Elective	CIA 1	10%	Home Assignment
		CIA 2	20%	Written Exam
		CIA 3	10%	Activity/Project and Research based learning along with seminar presentation
		CIA 4	10%	Behavioral Attitude +General Discipline Theory +Practical attendance
		<b>TOTAL</b>	<b>50%</b>	

**Exit Option: PG Diploma with 40 Credits**

*Dr. L. H. Patil*  
Dr. L. H. Patil

BoS  
Chairperson

*Dr. V. K. Patil*  
Dr. V. K. Patil

Dean  
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*Dr. Sandip*  
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