



School of Science
Department of Biological Sciences
NEP 2020 - Course Structure

Programme Name: Master of Science (Life Science)
Semester – I **For the 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	UC	NRDP101	Research Methodology	4	0	0	4	50	-	100	-	100
2	PC	NPLS101	Genetics	4	0	0	4	50	-	100	-	100
3	PC	NPLS102	Cell and Molecular Biology	4	0	0	4	50	-	100	-	100
4	PE	NPLSE..	Programme Elective I	3	0	2	4	50	50	100	50	100
5	PC	NPLS111	Genetics Laboratory	0	0	4	2	-	50	-	50	100
6	PC	NPLS112	Cell and Molecular Biology Laboratory	0	0	4	2	-	50	-	50	100
TOTAL				15	00	10	20	200	150	400	150	600

Course Code	Programme Elective I
NPLSE01	Plant Systematics
NPLSE02	Animal Systematics
NPLSE03	Microbial Taxonomy

		Formative Assessment		
CIA: Continuous Internal Assessment L: Theory Lecture T: Tutorial P: Practical ESE: End Semester Exam	UC: University Core PC: Programme Core PE: Programme Elective	CIA	Weightage	Description
		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%	Discipline and Attendance
		TOTAL	50%	

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School of Science
Department of Biological Sciences
NEP 2020 - Course Structure

Programme Name: Master of Science (Life Science)
Semester – II **For the 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	NPLS201	Ecology	4	0	0	4	50	-	100	-	100
2	PC	NPLS202	Instrumentation	4	0	0	4	50	-	100	-	100
3	PE	NPLSE..	Programme Elective II	3	0	2	4	50	50	100	50	100
4	PC	NPLS211	Ecology Laboratory	0	0	4	2	-	50	-	50	100
5	PC	NPLS212	Instrumentation Laboratory	0	0	4	2	-	50	-	50	100
6	OJT / FP	NPLS213	Field Project	0	0	8	4	-	50	-	50	100
TOTAL				11	00	18	20	150	200	300	200	600

Course Code	Programme Elective II
NPLSE04	Plant Physiology
NPLSE05	Animal Physiology
NPLSE06	Microbial Physiology

		Formative Assessment		
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		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%	Discipline and Attendance
		TOTAL	50%	

Exit Option: PG Diploma with 40 Credits

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School of Science
Department of Biological Sciences
NEP 2020 - Course Structure

Programme Name: Master of Science (Life Science)

Semester – III

For the Batch: AY 23-24 onwards

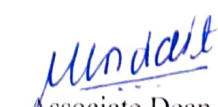
Sr. No.	Core	Course Code	Course Name	Teaching Scheme (Hrs./Week)				Examination Scheme				Total Marks
				L	T	P	C	Formative Assessment CIA		Summative Assessment ESE		
								Course	Lab	Course	Lab	
1	PC	NPLS301	Recombinant DNA Technology	4	0	0	4	50	-	100	-	100
2	PC	NPLS302	Biochemistry	4	0	0	4	50	-	100	-	100
3	PE	NPLSE..	Programme Elective III	3	0	2	4	50	50	100	50	100
4	PC	NPLS311	Recombinant DNA Technology Laboratory	0	0	4	2	-	50	-	50	100
5	PC	NPLS312	Biochemistry Laboratory	0	0	4	2	-	50		50	100
6	UC	NPLS313	Research Project Phase - I	0	0	8	4	-	50	-	50	100
TOTAL				11	00	18	20	150	200	300	200	600

Course Code	Programme Elective III
NPLSE07	Plant Development
NPLSE08	Animal Development
NPLSE09	Genetically Modified Organisms

		Formative Assessment		
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		CIA 1	10%	Home Assignment
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		CIA 3	10%	Activity /Project and Research-Based Learning along with Seminar Presentation
		CIA 4	10%	Discipline and Attendance
		TOTAL	50%	


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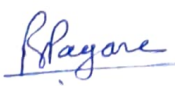
School of Science
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NEP 2020 - Course Structure


Programme Name: Master of Science (Life Science)
Semester – IV **For the Batch: AY 23-24 onwards**

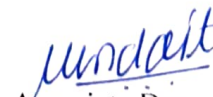
Semester – IV				For the Batch: AY 23-24 onwards								
Sr. No.	Core	Course Code	Course Name	Teaching Scheme (Hrs./Week)				Examination Scheme				Total Marks
				L	T	P	C	Formative Assessment CIA		Summative Assessment ESE		
								Course	Lab	Course	Lab	
1	PC	NPLS401	Applied Biology	4	0	0	4	50	-	100	-	100
2	PC	NPLS402	Immunology	4	0	0	4	50	-	100	-	100
3	PE	NPLSE..	Programme Elective IV	4	0	0	4	50	50	100	50	100
4	PC	NPLS411	Applied Biology and Immunology Laboratory	0	0	4	2	-	50	-	50	100
5	UC	NPLS412	Research Project Phase - II	0	0	12	6	-	50	-	50	100
TOTAL				12	00	16	20	150	150	300	150	500

Course Code	Programme Elective IV
NPLSE10	Nutraceuticals
NPLSE11	Intellectual Property Rights
NPLSE12	Biostatistics and Bioinformatics

		Formative Assessment		
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		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%	Discipline and Attendance
		TOTAL	50%	


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