Ch. Ranbir Singh University, Jind

Syllabus of the Examination

for

Post Graduate Programme

in

M. Sc. Environmental Science

as per NEP 2020
Curriculum and Credit Framework for Postgraduate Programme

With Multiple Entry-Exit, Internship and CBCS-LOCF
With effect from the session 2024-25 (in phased manner)

DEPARTMENT OF ENVIRONMENTAL SCIENCE

FACULTY OF LIFE SCIENCES

CH. RANBIR SINGH UNIVERSITY, JIND

Ch. Ranbir Singh University, Jind

Scheme of Examination for Postgraduate Programme Environmental Science
as per NEP 2020 Curriculum and Credit Framework for Postgraduate Programmes
(CBCS LOCF) with effect from the session 2024-25 (in phased manner)
Framework-2
Scheme-P

Semester	Course Type	Course Code	Nomenclature of course	Theory (T)/ Practical (P)	Credits		Contact hours per week L: Lecture P: Practical T: Tutorial				Internal Assessment Marks	End Term Examination Marks	Total Marks	Examination hours
						Total	L	T	P	Total				
1	CC-1	M24-EVS-101	Biophysical Environment	T	4	26	4	0	0	4	30	70	100	3
	CC-2	M24-EVS-102	Environmental and Green Chemistry	T	4		4	0	0	4	30	70	100	3
	CC-3	M24-EVS-103	Ecology and Ecosystem Dynamics	T	4		4	0	0	4	30	70	100	3
	CC-4	M24-EVS-104	Environmental Modeling and Statistics	T	4		4	0	0	4	30	70	100	3
	PC-1	M24-EVS-105	Practical-I	P	4		0	0	8	8	30	70	100	4
	PC-2	M24-EVS-106	Practical-II	P	4		0	0	8	8	30	70	100	4
	SEMINAR	M24-EVS-107	Seminar	S	2		0	0	0	2	0	50	50	1
2	CC-5	M24-EVS-201	Natural Resource Management	T	4	26	4	0	0	4	30	70	100	3
	CC-6	M24-EVS-202	Conservation and Biodiversity	T	4		4	0	0	4	30	70	100	3

	CC-7	M24-EVS-203	Environmental Pollution	T	4		4	0	0	4	30	70	100	3
	CC-8	M24-EVS-204	Environmental Methods and Analytical Techniques	T	4		4	0	0	4	30	70	100	3
	PC-3	M24-EVS-205	Practical-III	P	4		0	0	8	8	30	70	100	4
	PC-4	M24-EVS-206	Practical-IV	P	4		0	0	8	8	30	70	100	4
	CHM	M24-CHM-201	Constitutional, Human and Moral Values, and IPR	T	2		2	0	0	2	15	35	50	3
	Internship	M24-INT-200	An internship course of 4 Credits of 4-6 weeks duration during summer vacation after IInd semester is to be completed by every student. Internship can be either for enhancing the employability or for developing the research aptitude.								50	50	100	
3	CC-9	M24-EVS-301	Environmental Biotechnology and applications	T	4	26	4	0	0	4	30	70	100	3
	CC-10	M24-EVS-302	Remote Sensing and Geographical Information Systems	T	4		4	0	0	4	30	70	100	3
	DEC-1	M24-EVS-303	Ecotoxicology and Environmental Health	T	4		4	0	0	4	30	70	100	3
		M24-EVS-304	Environmental Planning , Policy and Law	T	4		4	0	0	4	30	70	100	3
		M24-EVS-305	Climatology and Global Climate Change	T	4		4	0	0	4	30	70	100	3
		M24-EVS-307	Industrial Ecology	T	4		4	0	0	4	30	70	100	3
		M24-EVS-308	Waste Management and Regulation	T	4		4	0	0	4	30	70	100	3

	DEC-2	M24-EVS-309	Industrial Water and Wastewater Treatment	T	4		4	0	0	4	30	70	100	3
	PC-5	M24-EVS-311	Practical-V	P	4		0	0	8	8	30	70	100	4
	PC-6	M24-EVS-312	Practical-VI	P	4		0	0	8	8	30	70	100	4
	OEC	M24-OEC-324	Global Climate Change	T	2		2	0	0	2	15	35	50	3
4	CC-11	M24-EVS-401	Agroecology and Agroforestry	T	4	26	4	0	0	4	30	70	100	3
	CC-12	M24-EVS-402	Environmental Impact Assessment and Auditing	T	4		4	0	0	4	30	70	100	3
	DEC-3	M24-EVS-403	Ecotechnology and Ecological Restoration	T	4		4	0	0	4	30	70	100	3
		M24-EVS-404	Ecological Economics	T	4		4	0	0	4	30	70	100	3
		M24-EVS-405	Environmental Health and Industrial Safety	T	4		4	0	0	4	30	70	100	3
	DEC-4	M24-EVS-407	Environmental Disasters Management	T	4		4	0	0	4	30	70	100	3
		M24-EVS-408	Energy Resources and Environment	T	4		4	0	0	4	30	70	100	3
		M24-EVS-409	Water Resource Management	T	4		4	0	0	4	30	70	100	3
	PC-7	M24-EVS-411	Practical-VII	P	4		0	0	8	8	30	70	100	4
	PC-8	M24-EVS-412	Practical-VIII	P	4		0	0	8	8	30	70	100	4

	EEC	M24-EVS-413	Environment, Energy and Safety Audit	T	2		2	0	0	2	15	35	50	3
OR														
If a candidate offered dissertation course in Semester-IV, then s/he will also study CC-12, DEC-3, DEC-4 and EEC from above courses of Semester-IV														
	Dissertation	M24-EVS-414	Dissertation	D	12		0	0	0	-	0	300	300	-
Total Credits= 26														

Programme Learning Outcomes(PLOs) for PG Programmes as per NEP-2020

PLOs for a Master Degree in Environmental Science

PLOs	Master Degree in Environmental Science
	After the completion of Master degree in Environmental Science the student will be able to:
PLO-1: Knowledge and Understanding	Demonstrate the fundamental and advanced knowledge of the subjectand understanding of recent developments and issues, including methods and techniques, related to the **Environmental Science**.
PLO-2: General Skills	Acquire thegeneral skills required for performing and accomplishing the tasks as expected to be done by a skilled professional in the fields of **Environmental Science**.
PLO-3: Technical/ Professional Skills	Demonstrate the learning of advanced cognitive technical/professional skills required for completing the specialized tasks related to the profession and for conducting and analyzing the relevant research tasks indifferent domains of the **Environmental Science**.
PLO-4: Communication Skills	Effectively communicate the attained skills of the **Environmental Science** in well-structured and productive mannerto the society at large.
PLO-5: Application of Knowledge and Skills	Apply the acquired knowledge and skills to the problems in the subject area, and to identify and analyze the issues where the attained knowledge and skills can be applied by carrying out research investigations to formulate evidence-based solutions to complex and unpredictable problems associated with the field of **Environmental Science** or otherwise.
PLO-6: Critical thinking and Research Aptitude	Attain the capability of critical thinking in intra/inter-disciplinary areas of the **Environmental Science** enabling to formulate, synthesize, and articulate issues for designing of research proposals, testing hypotheses, and drawing inferences based on the analysis.
PLO-7: Constitutional, Humanistic, Moral Values and Ethics	Know constitutional, humanistic, moral and ethical values, and intellectual property rights to become a scholar/professional with ingrained values in expanding knowledge for the society, and toavoid unethical practices such as fabrication, falsification or misrepresentation of data or committing plagiarism.
PLO-8: Capabilities/qualities and mindset	To exercise personal responsibility for the outputs of own work as well as of group/team and for managing complex and challenging work(s)that requires new/strategic approaches.
PLO-9: Employability and job-ready skills	Attain the knowledge and skills required for increasing employment potential, adapting to the future work and responding to the rapidly changing demands of the employers/industry/society with time.