# Kurukshetra University, Kurukshetra

(Established by the State Legislature Act-XII of 1956) ("A++" Grade, NAAC Accredited)



## Scheme of Examination for Post Graduate Programme

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)

INSTITUTE OF ENVIRONMENTAL STUDIES FACULTY OF LIFE SCIENCE

KURUKSHETRA UNIVERSITY, KURUKSHETRA -136119

HARYANA, INDIA

**Environmental Studies Kurukshetra University** Kurukshetra-136119

### 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
6	student will be able to:
PLO-1: Knowledge and	Demonstrate the fundamental and advanced knowledge of the subjectand
Understanding	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/	Demonstrate the learning of advanced cognitive technical/professional
Professional Skills	skills required for completing the specialized tasks related to the
Toressional sums	profession and for conducting and analyzing the relevant research tasks
	1. 1: Count domains of the Environmental Science.
PLO-4:	Effectively communicate the attained skills of the Environmental
Communication Skills	Science in well structured and productive manner to the society at large.
PLO-5: Application of	to the proplems in the subject
Knowledge and Skills	the second where the allalied knowledge
Knowledge and Skins	
	and skills can be applied by carrying out research in the specific formulate evidence-based solutions to complex and unpredictable formulate evidence-based solutions to complex and unpredictable formulate evidence based solutions to complex and unpredictable formulate evidence based solutions to complex and unpredictable formulate evidence based solutions.
	formulate evidence-based solutions to complex and approblems associated with the field of Environmental Science of
	otherwise.
2 0 11 1	otherwise.  Attain the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in intra/inter-disciplinary areas of the capability of critical thinking in the capability of critical thinking in the capability of critical thinking in the capabili
PLO-6: Critical	Attain the capability of critical thinking in intra/mici-diseparate, and the <b>Environmental Science</b> enabling to formulate, synthesize, and the <b>Environmental Science</b> enabling to formulate, synthesize, and the intra/mici-diseparate proposals, testing hypotheses
thinking and Research	to the same tor designing of resemble
Aptitude	articulate issues for designing and drawing inferences based on the analysis.  and drawing inferences based on the analysis.  and drawing inferences based on the analysis.
	and drawing inferences based on the analysis.  Know constitutional, humanistic, moral and ethical values, an know constitutional, humanistic, moral and ethical values, an know constitutional, humanistic, moral and ethical values, and and eth
PLO-7: Constitutional,	Know constitutional, humanistic, moral and ethical values, intellectual property rights to become a scholar/professional wit intellectual property rights to become a scholar/professional wit intellectual property rights to become a scholar/professional with intellectual property rights to become a scholar with intellectual property rights and rights a scholar with intellectual property rights and rights a scholar with intellectual property rights and rights a scholar with intellectual property rights a scholar
Humanistic, Moral	intellectual property rights to become a scholar/professional ingrained values in expanding knowledge for the society, and toavoing a special response of the society and the special response of the society and the special response of the society and the special response of the special respons
Values and Ethics	disal proctices silli as two
50.5%	C - TIM WORK AS WOLL
	of data of committeing possibility for the outputs of own work of the outputs of own work (s)th
PLO-8:	To exercise personal responsibility for the outputs of own work as to be a complex and challenging work(s)th of group/team and for managing complex and challenging work(s)th of group/team and for managing complex and challenging work(s)th of group/team and for managing complex and challenging work(s)th of group/team and for managing complex and challenging work(s)th of group/team and for managing complex and challenging work(s)th of group/team and for managing complex and challenging work(s)th of group/team and for managing complex and challenging work(s)th of group/team and for managing complex and challenging work(s)th of group/team and for managing complex and challenging work(s)th of group/team and for managing complex and challenging work(s)th of group/team and for managing complex and challenging work(s)th of group/team and for managing complex and challenging work(s)th of group/team and challenging work(s) work (s) work (s) work (s) work (s) wor
Capabilities/qualities	
and mindset	of group/team and responded requires new/strategic approaches.  Attain the knowledge and skills required for increasing employment and responding to the rapid that the depting to the future work and responding to the rapid that the depting to the future work and responding to the rapid that the depting to the future work and responding to the rapid that the depting to the future work and responding to the rapid that the depting to the future work and responding to the rapid that the depting to the future work and responding to the rapid that the depting to the future work and responding to the rapid that the depting to the future work and responding to the rapid that the depting to the future work and responding to the rapid that the depting to the future work and responding to the rapid that the depting the depting that the depting that the depting that the depting that the depting the depting that the depting t
PLO-9:	Attain the knowledge and skills required for increasing employers.  Attain the knowledge and skills required for increasing employers.  Description of the employers/industry/society with time.
Employability and job-	
ready skills	changing demands of the
ready skills	Changing as

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#### Kurukshetra University, Kurukshetra

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

er	Course Type	Course Code	Nomenclature of course	Theory (T)/ Practical (P)	(	Credits	L: I P: P	tact he ecture ractic utoria	e al	er week	Internal Assessment Marks	End Term Examination Marks	Total Marks	Examinati on hours
Semester						Total	L	T	P	Total				
	CC-1	M24- EVS-101	Biophysical Environment	Т	4		4	0	0	4	30	70	100	3
	CC-2	M24- EVS-102	Environmental and Green Chemistry	Т	4		4	0	0	4	30	70	100	3
	CC-3	M24- EVS-103	Ecology and Ecosystem Dynamics	Т	4		4	0	0	4	30	70	100	3
1	CC-4	M24- EVS-104	Environmental Modeling and Statistics	Т	4	26	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
	CC-5	M24- EVS-201	Natural Resource Management	Т	4	26	4	0	0	4	30	70	100	3
2	ÇC-6	M24- EVS-202	Conservation and Biodiversity	Т	4	Handerb	4 Pas	0	0	4	30	70	100	3

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CC-7	M24- EVS-203	Environmental Pollution	Т	4		4	0	0	4	30	70	100	3
CC-8	M24- EVS-204	Environmental Methods and Analytical Techniques	Т	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
СНМ	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 Creafter IInd semester is to be content on the employability	impleted by	every st	udent. Ir	iterns	hip ca	ner va n be e	cation either for	50	50	100	
CC-9	M24- EVS-301	Environmental Biotechnology and applications	Т	4	26	4	0	0	4	30	70	100	3
CC-10	M24- EVS-302	Remote Sensing and Geographical Information Systems	Т	4		4	0	0	4	30	70	100	3
	M24- EVS-303	Ecotoxicology and Environmental Health	Т	4		4	0	0	4	30	70	100	3
	M24- EVS-304	Environmental Planning, Policy and Law	Т	4		4	0	0	4	30	70	100	3
DEC-1	M24- EVS-305	Climatology and Global Climate Change	Т	4		4	0	0	4	30	70	100	3
	M24- EVS-306	SWAYAM or other approved online portal	Т	4	14	4	0	0	4	30	70	100	3
DEC-2	M24- EVS-307	Industrial Ecology	Т	4		4	0	0	4	30	70	100	3

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		M24- EVS-308	Waste Management and Regulation	Т	4		4	0	0	4	30	70	100	3
		M24- EVS-309	Industrial Water and Wastewater Treatment	Т	4		4	0	0	4	30	70	100	3
		M24- EVS-310	SWAYAM or other approved online portal	Т	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	Т	2		2	0	0	2	15	35	50	3
	CC-11	M24- EVS-401	Agroecology and Agroforestry	Т	4	26	4	0	0	4	30	70	100	3
	CC-12	M24- EVS-402	Environmental Impact Assessment and Auditing	Т	4		4	0	0	4	30	70	100	3
		M24- EVS-403	Ecotechnology and Ecological Restoration	Т	4		4	0	0	4	30	70	100	3
4	DEG 3	M24- EVS-404	Ecological Economics	Т	4		4	0	0	4	30	70	100	3
	DEC-3	M24- EVS-405	Environmental Health and Industrial Safety	Т	4		4	0	0	4	30	70	100	3
		M24- EVS-406	SWAYAM or other approved online portal	Т	4		4	0	0	4	30	70	100	3
	DEC 4	M24- EVS-407	Environmental Disasters Management	Т	4		4	0	0	4	30	70	100	3
	DEC-4	M24- EVS-408	Energy Resources and Environment	Т	4	depla	4	0	0	4	30	70	100	3

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/S-410 24- /S-411 24- /S-412 24-	SWAYAM or other approved online portal  Practical-VII  Practical-VIII  Environment, Energy and Safety Audit	T P T	4 4 2		0	0 0	8	8 8	30 30 30	70 70 70	100	3 4
/S-411 24- /S-412 24-	Practical-VIII  Environment, Energy and	P	4									
/S-412 24-	Environment, Energy and				0	0	8	8	30	70	100	4
		T	2	1						1		
	Safety Audit	at a			2	0	0	2	15	35	50	3
				OR								
dissertati	ion course in Semester-IV, then	s/he will also	study C	C-12, DI	EC-3, I	DEC-4	and E	EC from a	above courses of	of Semester-IV		
24- /S-414	Dissertation	D	12		0	0	0	-	0	300	300	-
24	-	- Dissertation	- Dissertation D	- Dissertation D 12	issertation course in Semester-IV, then s/he will also study CC-12, DE  Dissertation D 12	issertation course in Semester-IV, then s/he will also study CC-12, DEC-3, I  Dissertation D 12 0	issertation course in Semester-IV, then s/he will also study CC-12, DEC-3, DEC-4  Dissertation  D  12  0 0	issertation course in Semester-IV, then s/he will also study CC-12, DEC-3, DEC-4 and E  Dissertation  D  12  0 0 0	issertation course in Semester-IV, then s/he will also study CC-12, DEC-3, DEC-4 and EEC from a Dissertation D 12 0 0 0 0	issertation course in Semester-IV, then s/he will also study CC-12, DEC-3, DEC-4 and EEC from above courses of Dissertation D 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	issertation 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  D  12  0 0 0 0 200	issertation 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  D  12  0 0 0 0 200 200 200

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