

INDIRA GANDHI UNIVERSITY, MEERPUR, REWARI

(A State University Established under Haryana Act No. 29 of 2013)

Proceedings of the UGBOS Meeting:-

The meeting of UG-BOS in Environmental Sciences was held on 26.04.2024 at 10:30 am in the office of Chairperson, Department of Environmental Sciences, Indira Gandhi University, Meerpur (Rewari).

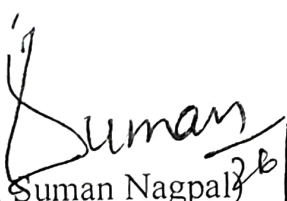
The following members were present:

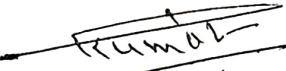
1. Dr. Suman Nagpal : Dean Faculty of Life-Sciences & Chairperson
2. Dr. Amit Kumar : Outside Expert
3. Dr. Partima Solanki : Outside Expert

The scheme and syllabi of UG Programme in Environmental Sciences was discussed. After detailed deliberations the following was unanimously resolved:

1. The scheme and syllabi of UG three and four year programme in Environmental Sciences along with its components in under graduate Life-Science as one of the major subject was designed and approved as per CBCS-LOCF in accordance to NEP-2020.
2. Panel of experts for the paper setting (theory) and examiners for practical in B.Sc. Environmental Sciences was approved.

The Committee of members of UGBOS authorize Chairperson/ Dean Faculty of Life-Sciences to make minor changes in the syllabus of UG Scheme/Syllabus Environmental Sciences if, required.


(Dr. Suman Nagpal) 26/4/24


26/04/24
(Dr. Amit Kumar)


26/4/24
(Dr. Partima Solanki)

Endst No. IGU/EVS/2024/ 76-77

Dated 26.04.2024

Copy of the above is forwarded to the followings for information:

1. Controller of Examinations, IGU, Meerpur (Rewari)
2. Deputy Registrar (Acad.), I.G.U., Meerpur along with Scheme and Syllabi

Indira Gandhi University, Meerpur, Rewari



Scheme of Examination and Syllabus for Undergraduate Programme in Environmental Science

Under Multiple Entry-Exit, Internship and CBCS-LOCF
in accordance with **NEP- 2020** w. e. f. 2024-25
(in phased manner)

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INDIRA GANDHI UNIVERSITY, MEERPUR

Scheme of Examination Subject: Environmental Science for Under-Graduate Programme under Multiple Entry-Exit, Internship and CBCS-LOCF in accordance to NEP-2020 w. e. f. 2024-25 (in phased manner)

DEPARTMENT OF ENVIRONMENTAL SCIENCES

FIRST YEAR: SEMESTER-1

Applicable Scheme	Course	Course Code	Nomenclature of Course	Credits	Hours/ Week	Internal marks	External Marks	Total Marks	Exam Duration
Scheme A, B & C	CC-1 MCC-1 4 credit	24L4.5-EVS-101	Earth & Environment	3	3	20	50	70	3hrs.
			Practical	1	2	10	20	30	4hrs.
Scheme C only	MCC-2 4 credit	24L4.5-EVS-102	Natural Resources	3	3	20	50	70	3hrs.
			Practical	1	2	10	20	30	4hrs.
Scheme * A, B & D	CC-M1 2 credit	24L4.5-EVS-103	Environment and Social Issues	1	1	10	20	30	3hrs.
			Practical	1	2	5	15	20	4hrs.
Scheme A, B, C & D	MDC-1 3 credits	24L4.5-EVS-104	Basics of Environmental Sciences	2	2	15	35	50	3hrs.
			Practical	1	2	5	20	25	4hrs.
Scheme C only	CC-M1 4 credits		From Available CC-1/MCC-1 of 4 credits as per NEP						
			From Available pool of AEC-1 of 2 credits as per NEP						
Scheme A, B & C	SEC-1 3 credits		From Available pool of SEC-1 of 3 credits as per NEP						
			From Available pool of VAC-1 of 2 credits as per NEP						

CC : Core Course
MDC : Multidisciplinary Course
SEC : Skill Enhancement Course

* : For students who opt EVS as a minor subject

CC-M : Minor Course
AEC : Ability Enhancement Course
VAC : Value Added Course

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INDIRA GANDHI UNIVERSITY, MEERPUR

DEPARTMENT OF ENVIRONMENTAL SCIENCES

FIRST YEAR: SEMESTER-2

FIRST YEAR: SEMESTER-2									
Applicable Scheme	Course	Course Code	Nomenclature of Course	Credits	Hours/ Week	Internal marks	External Marks	Total Marks	Exam Duration
Scheme A, B & C	CC-2 MCC-3 4 credits	24L4.5- EVS-201	Fundamentals of Ecology	3	3	20	50	70	3hrs.
			Practical	1	2	10	20	30	4hrs.
Scheme C only	DSEC-2 4 credits	24L4.5- EVS-202	Techniques of Environmental Analysis	3	3	20	50	70	3hrs.
			Practical	1	2	10	20	30	4hrs.
Scheme * A, B & D	CC-M2 2 credits	24L4.5- EVS-203	Climate Change	1	1	10	20	30	3hrs.
			Practical	1	2	5	15	20	4hrs.
Scheme A, B, C & D	MDC-2 3 credits	24L4.5- EVS-204	Environmental Issues	2	2	15	35	50	3hrs.
			Practical	1	2	5	20	25	4hrs.
Scheme A, B, C	Internship*	24L4.5-EVS-205		4					
Scheme C only	CC-M2 4 credits	From Available CC-2/MCC-3 of 4 credits as per NEP							
Scheme A, B & C	AEC-2 2 credits	From Available Pool of AEC-2 of 2 credits as per NEP							
	SEC-2 3 credits	From Available Pool of SEC-2 of 3 credits as per NEP							
	VAC-2 2 credits	From Available Pool of VAC-2 of 2 credits as per NEP							
* Internship of 4credits of 4-6 weeks duration									

CC : Core Course

MDC : Multidisciplinary Course

SEC : Skill Enhancement Course

DSEC : Discipline Skill Enhancement Course

* For Student who Opt EVS as Minor Subject

* Applicable for those students who wish to exit after 2nd Semester

CC-M : Minor Course

AEC : Ability Enhancement Course

VAC : Value Added Course

Note: UG Certificate in Life Sciences (with credits 52)/ EVS (with 48 credits) will be provided, if student want to exit after

2nd Semester on submitting 4-6 weeks Internship Report (4 Credits)

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DEPARTMENT OF ENVIRONMENTAL SCIENCES

SECOND YEAR: SEMESTER-3

Applicable Scheme	Course	Course Code	Nomenclature of Course	Credits	Hours/ Week	Internal marks	External Marks	Total Marks	Exam Duration
Scheme A,B&C	CC-3	24L5.0-EVS - 301	Introduction to Biodiversity	3	3	20	50	70	3hrs.
	MCC-4 4 credits		Practical	1	2	10	20	30	4hrs.
Scheme B & C	MCC-5 4 credits	24L5.0-EVS-302	Disaster Management	3	3	20	50	70	3hrs.
			Practical	1	2	10	20	30	4hrs.
Scheme B	MCC-2 4 credits	24L4.5-EVS-102	Natural Resources	3	3	20	50	70	3hrs.
			Practical	1	2	10	20	30	4hrs.
Scheme A, B, C & D	MDC-3 3 credits	24L5.0-EVS-303	Environmental Conservation	2	2	15	35	50	3hrs.
			Practical	1	2	5	20	25	4hrs.
Scheme A & C	CC-M3 4 credits		From Available CC-3/MCC-4 of 4 credits as per NEP						
Scheme B	CC-M3 (V) 4 credits		From Available pool of VOC-1 of 4 credits as per NEP						
Scheme A,B & C	AEC-3 2 credits		From Available pool of AEC-3 of 2 credits as per NEP						
	SEC-3 3 credits		From Available pool of SEC-3 of 3 credits as per NEP						
Scheme C only	VAC-3 2 credits		From Available pool of VAC-3 of 2 credits as per NEP						

CC : Core Course
MDC : Multidisciplinary Course
SEC : Skill Enhancement Course

CC-M (V) : Minor (Vocational)
AEC : Ability Enhancement Course
VAC : Value Added Course


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INDIRA GANDHI UNIVERSITY, MEERPUR

DEPARTMENT OF ENVIRONMENTAL SCIENCES

SECOND YEAR: SEMESTER-4

Applicable Scheme	Course	Course Code	Nomenclature of Course	Credits	Hours/Week	Internal marks	External Marks	Total Marks	Exam Duration
Scheme A, B & C	CC-4	24L5.0 - EVS-401	Environmental Pollution And Management	3	3	20	50	70	3hrs.
	MCC-6	4 credits	Practical	1	2	10	20	30	4hrs.
	MCC-7	24L5.0 - EVS-402	Land Degradation and Management	3	3	20	50	70	3hrs.
Scheme B & C	MCC-8	24L5.0 - EVS-403	Practical	1	2	10	20	30	4hrs.
			Environmental Chemistry	3	3	20	50	70	3hrs.
			Practical	1	2	10	20	30	4hrs.
Scheme B & C	DSE-1	24L5.0 - EVS-404	Solid Waste Management	3	3	20	50	70	3hrs.
			Practical	1	2	10	20	30	4hrs.
			Liquid Waste Management	3	3	20	50	70	3hrs.
Scheme A, B & C	Internship	24L5.0 - EVS-405	Practical	1	2	10	20	30	4hrs.
			Practical	1	2	10	20	30	4hrs.
			Practical	1	2	10	20	30	4hrs.
Scheme A, B & C	CC-M4 (V)	4 credits	From Available pool of VOC-2 of 4 credits as per NEP						
			From Available AEC-3 of 2 credits as per NEP						
			From Available pool of VAC-3 of 2 credits as per NEP						
Scheme A & B	VAC-3	2 credits	From Available pool of VAC-3 of 2 credits as per NEP						
			From Available pool of VAC-4 of 2 credits as per NEP						
			From Available pool of VAC-4 of 2 credits as per NEP						
Scheme C only	VAC-4	2 credits	From Available pool of VAC-4 of 2 credits as per NEP						
			From Available pool of VAC-4 of 2 credits as per NEP						
			From Available pool of VAC-4 of 2 credits as per NEP						

*Internship of 4 credits of 4-6 weeks duration for students who wish to exit after 4th semester, if not done in 2nd sem

CC : Core Course
MDC : Multidisciplinary Course
SEC : Skill Enhancement Course

CC-M (V)
AEC
VAC

: Minor (Vocational)
: Ability Enhancement Course
: Value Added Course

Note: UG Diploma in Life Sciences (with credits 96/ EVS (with 92 (credits) will be provided, if student want to exit after 4th semester on submitting the 4-6 weeks Internship Report (4 Credits).

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DEPARTMENT OF ENVIRONMENTAL SCIENCES

THIRD YEAR: SEMESTER-5

Applicable Scheme	Course	Course Code	Nomenclature of Course	Credits	Hours/ Week	Internal marks	External Marks	Total Marks	Exam Duration
Scheme A,B&C	CC-5 MCC-9 4 credit	24L5.5 - EVS- 501	Environmental Biotechnology	3	3	20	50	70	3hrs.
			Practical	1	2	10	20	30	4hrs.
			Water Resource and Management	3	3	20	50	70	3hrs.
Scheme B & C	MCC-10 4 credit	24L5.5 - EVS- 502	Practical	1	2	10	20	30	4hrs.
			Agroforestry and Agroecology	3	3	20	50	70	3hrs.
			Practical	1	2	10	20	30	4hrs.
Scheme B & C	DSE-2 4 credits Select one Option	24L5.5 - EVS- 504	Ecological Restoration	3	3	20	50	70	3hrs.
			Practical	1	2	10	20	30	4hrs.
			Biomedical and E-Waste Management	3	3	20	50	70	3hrs.
Scheme B & C	DSE-3 4 credits Select One Option	24L5.5 - EVS- 506	Practical	1	2	10	20	30	4hrs.
			Hazardous Waste Management	3	3	20	50	70	3hrs.
			Practical	1	2	10	20	30	4hrs.
Scheme A, B & C	Internship 4 credits	If not done in II & IV Semester							
Scheme A & C	CC-M5(V) 4 credits	From Available pool of VOC-1 of 4 credits as per NEP							

CC : Core Course
MDC : Multidisciplinary Course
SEC : Skill Enhancement Course
DSE : Discipline Specific Elective Course

CC-M(V) : Minor (Vocational)
AEC : Ability Enhancement Course
VAC : Value Added Course

* Internship # 4credit after 4th semester (If not done in II & IV Semester)

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INDIRA GANDHI UNIVERSITY, MEERPUR
DEPARTMENT OF ENVIRONMENTAL SCIENCES

THIRD YEAR: SEMESTER-6

Applicable Scheme	Course	Course Code	Nomenclature of Course	Credits	Hours/ Week	Internal marks	External Marks	Total Marks	Exam Duration
Scheme A only	CC-6		Basics of Remote Sensing	3	3	20	50	70	3hrs.
A,B&C	MCC-11 4 credits	24L5.5-EVS-601	And GIS						
			Practical	1	2	10	20	30	4hrs.
			Waste Management	3	3	20	50	70	3hrs.
Scheme B & C	MCC-12 4 credits	24L5.5-EVS-602	Practical	1	2	10	20	30	4hrs.
			Environmental Legislation	3	3	20	50	70	3hrs.
			Practical	1	2	10	20	30	4hrs.
Scheme B & C	DSE-4 4 credits Select one Option	24L5.5-EVS-603 24L5.5-EVS-604	Environmental Management System and Standards	3	3	20	50	70	3hrs.
			Practical	1	2	10	20	30	4hrs.
			Energy and Environment	3	3	20	50	70	3hrs.
			Practical	1	2	10	20	30	4hrs.
Scheme B & C	DSE-5 4 credits Select one Option	24L5.5-EVS-605 24L5.5-EVS-606	Renewable & New Energy Sources	3	3	20	50	70	3hrs.
			Practical	1	2	10	20	30	4hrs.
Scheme A only	CC-M6 4 credits		From Available CC-6/MCC-11 of 4 credits as per NEP						
Scheme A only	CC-M7(V) 4 credits		From Available Pool of VOC-3 of 4 credits as per NEP						
Scheme B only	CC-M5(V) 4 credits		From Available Pool of VOC-3 of 4 credits as per NEP						
Scheme C only	CC-M6(V) 4 credits		From Available Pool of VOC-3 of 4 credits as per NEP						
Scheme C only	SEC-4 2 credit		From Available Pool of SEC-4 of 2 credits as per NEP						

CC: Core Course
MDC: Multidisciplinary Course
SEC: Skill Enhancement Course
DSE: Discipline Specific Elective Course

CC-M (V): Minor (Vocational)
AEC: Ability Enhancement Course
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INDIRA GANDHI UNIVERSITY, MEERPUR
DEPARTMENT OF ENVIRONMENTAL SCIENCES

FOURTH YEAR: SEMESTER-7 (FOR HONOURS/ HONOURS WITH RESEARCH)

Applicable Scheme	Course	Course Code	Nomenclature of Course	Credits	Hours/ Week	Internal marks	External Marks	Total Marks	Exam Duration
(For Scheme B&C)	CC-H1 4 credits	24L6-0-EVS-701	Applications of Remote Sensing and GIS	4	4	30	70	100	3hrs.
	CC-H2 4 credits	24L6-0-EVS-702	Environmental Microbiology	4	4	30	70	100	3hrs.
	CC-H3 4 credits	24L6-0-EVS-703	Environmental Statistics & Modeling	4	4	30	70	100	3hrs.
	DSE-H1 4 credits Select One Option	24L6-0-EVS-704	Occupational Health & Safety	4	4	30	70	100	3hrs.
		24L6-0-EVS-705	Environmental Toxicology	4	4	30	70	100	3hrs.
	PC-H1 4 credits	24L6-0-EVS-706	Practical Based on B&C-EVS-701 TO 704/705	4	8	30	70	100	6hrs.
24L6-0- From Available Minor of 4 credits as per NEP									
CC-HM1 4 credits									

CC-H: Core Course in Honors Subject
DSE-H: Discipline Specific Elective Course in Honors Subject

CC-HM: Core Course in Minor Subject of Honors Programme
PC-H: Practicum Course in Honors Subject

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DEPARTMENT OF ENVIRONMENTAL SCIENCES

SEMESTER-8 (FOR HONOURS)

SEMESTER-8 (FOR HONOURS)									
Applicable Scheme	Course	Course Code	Nomenclature of Course	Credits	Hours/ Week	Internal marks	External Marks	Total Marks	Exam Duration
(For Scheme B & C)	CC-H4 4 credits	24L6.0 - EVS-801	Environmental Impact Assessment	4	4	30	70	100	3hrs.
	CC-H5 4 credits	24L6.0 - EVS-802	Research Methodology & Ethics	4	4	30	70	100	3hrs.
	CC-H6 4 credit	24L6.0 - EVS-803	Environmental Economics	4	4	30	70	100	3hrs.
	DSE-H2 4 credit	24L6.0 - EVS-804	Indian Knowledge System & Environment	4	4	30	70	100	3hrs.
	Select one option	24L6.0 - EVS-805	Space Mission for Earth System Monitoring	4	4	30	70	100	3hrs.
	PC-H2 4 credits	24L6.0 - EVS-806	Practical Based on 24L6.0 - EVS-801 To 804/805	4	8	30	70	100	6hrs.
	CC-HM2 4 credits	From Available Minor of 4 credits as per NEP							
OR									
SEMESTER-8 (FOR HONOURS WITH RESEARCH)									
Applicable Scheme	Course	Course Code	Nomenclature of Course	Credits	Hours/ Week	Internal marks	External Marks	Total Marks	Exam Duration
Honors with Research in Environmental Science	CC-H4 4 credits	24L6.0-EVS-801	Environmental Impact Assessment	4	4	30	70	100	3hrs.
	CC-H5 4 credits	24L6.0-EVS-802	Research Methodology & Ethics	4	4	30	70	100	3hrs.
	Project/ Dissertation 12 credits	24L6.0-EVS-807	Project/Dissertation	12	-	-	300	300	-
	(For Scheme B&C)	CC-HM2 4 credits	From Available Minor of 4 credits as per NEP						

CC: Core Course

CC-HM: Minor
PC: Practicum Course

Note: Bachelor (Hons.) Degree in EVS with 184 credits will be awarded

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