

B. M.Sc. ENVIRONMENTAL SCIENCE (2 YEARS)

Program Objectives

1. Impart basic knowledge about the environment and its allied problems at local, regional and global scale.
2. Train the students for scientific analyses of environmental components and its management.
3. Provide practical training on modern instrumentation and analytical techniques for environmental analyses.
4. Prepare for global competence for career options in research fellowship programmes, education, research, industries, consultancy, environmental journalism, etc.
5. Understanding the impacts of climate change, environmental pollution and mitigation strategies.

Program Outcomes

After completion of Programme, student will able to

1. Use concepts and methods from ecological, biological, chemical, geological and geospatial sciences and their application in environmental problem-solving.
2. Apply environmental concepts and methodologies to analyse and understand the interactions between social and environmental processes.
3. Demonstrate proficiency in conducting interdisciplinary research and communication skills.
4. Demonstrate an understanding of legal, regulatory and ethical considerations relating to environment.
5. Availability of qualified personnel for advance research.

Central University of Rajasthan School of Earth Sciences M.Sc. Environmental Science (2 year)

Course Structure

Semester I/VII

S. No.	Subject Code	Name of the Subject	Credit
1	EVS 401	Ecology and Environment	4
2	EVS 402	Environmental Chemistry	4
3	EVS 403	Environmental Geoscience	4
4	EVS 404	Environmental Pollution	4
5	EVS 405	Environmental Laboratory-I	2
6	EVS 4XX	D-Elective (Discipline)	4
7		Fitness	0.5
8		Societal	0.5
		Total Credits	23

Semester II

S. No.	Subject Code	Name of the Subject	Credit
1	EVS 406	Instrumentation for Environmental Monitoring and Analysis	4
2	EVS 407	Air and Water Quality Management	4
3	EVS 408	Remote Sensing and GIS	4(T+L*)
4	EVS 409	Environmental Laboratory-II	2
5	EVS 4XX	D-Elective (Discipline)	4
6	EVS 4XX	D-Elective (Discipline)	4
7	EVS 4XX	Elective (Ex-Discipline)	4
8		Fitness	0.5
9		Societal	0.5
		Total Credits	27

Semester III/IX

S. No.	Subject Code	Name of the Subject	Credit
1	EVS 501	Arid Environment and Desert Meteorology	4
2	EVS 502	Environmental Biotechnology	4
3	EVS 503	Environmental Toxicology	4
4	EVS 504	Environmental Laboratory-III	2
5	EVS 505	Internship/Skill enhancement	2
6	EVS 5XX	D-Elective (Discipline)	4
7	EVS 5XX	Ex-Elective (Ex-Discipline)	4
8		Fitness	0.5
9		Societal	0.5
		Total Credits	25

Semester IV

S. No.	Subject Code	Name of the Subject	Credit
1	EVS 506	Dissertation	16
2	EVS 5XX	Elective-Open	4
3		Fitness	0.5
4		Societal	0.5
		Total Credits	21

Total: 96 Credits**Note:**

1. Minimum 6 students are required to run elective courses (List enclosed)
 2. Open electives can be selected from any department of the university.
 3. MOOCs can be selected based on the availability
- *T- Theory; L-laboratory

Elective Courses I *

S. No.	Subject Code	Name of the Subject	Credit
1	EVS 410	Soil Science	4
2	EVS 411	Agrometeorology	4
3	EVS 412	Wastewater Treatment	4(2T+2P)
4	EVS 413	Environmental Disasters and Management	4
5	EVS 414	Solid Waste Management	4
6	EVS 415	Natural Resources, Biodiversity and Wildlife Conservation	4
7	EVS 416	Coastal and Marine Environment	4
8	EVS 417	Environmental Legislation	4
9	EVS 418	Energy and Environment	4
10	EVS 419	Environmental Impact Assessment and Management	4
11	EVS 420	Global Climate Change Science	4
12	EVS 421	Forest Ecology and Management	4
13	EVS 422	Sustainable Agriculture and Environmental Practices	4
14	EVS 423	Environmental Statistics and Computer Programming	4
		Massive Open Online Courses (MOOCs)	4

Elective Courses II**

S. No.	Subject Code	Name of the Subject	Credit
1	EVS 507	Geoinformatics for Forest Management	4
2	EVS 508	Occupational Hazards	4
4	EVS 509	Water Resource Management	4
5	EVS 510	Aquatic and Chemical Ecology	4
6	EVS 511	Glaciology and Climate Change	4
7	EVS 512	Environmental Stress on Vegetation	4
8	EVS 513	Carbon Capture and Sequestration Technology	4
		Massive Open Online Courses (MOOCs)	

**These courses will be opened for students of VIIth and VIIIth semester*

*** These courses will be opened for students of IXth and Xth semester*