

**COURSES ON
CLIMATE SCIENCE AND/OR ENVIRONMENTAL
SUSTAINABILITY**

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The commitment to both societal well-being and environmental sustainability is woven into the core mission and vision of Manav Rachna International Institute of Research & Studies, aligning closely with the beliefs of its founder.

Courses concerning Environment & Sustainability, as well as Professional Ethics, are fundamental components of the curricula across various programs and academic levels. These courses aim to raise awareness about environmental issues, provide knowledge for environmental protection, promote conservation of natural resources, and address waste management. Additionally, environmental studies courses incorporate fieldwork and project work, offering students practical exposure to real-world environmental challenges. This equips students with the ability to apply learned concepts and acquired skills to devise solutions and create tangible impacts at both local and global levels. Moreover, the university prioritizes the cultivation of professional ethics among students, integrating relevant courses into the curriculum of all programs. Annual plantation drives are also organized during student induction programs as part of the university's commitment to environmental stewardship.

University also offers specialization in undergraduate and postgraduate programs related to sustainability including B.Tech Civil Engineering (Hons) with specialization in green technology & sustainability engineering, B.Tech Civil engineering (Hons) with specialization in smart infrastructure, B.Tech Mechanical Engineering with specialization in electric vehicles The details of departments offering these programs can be accessed through following links:

<https://mriirs.edu.in/course/b-tech-civil-engineering/>

<https://mriirs.edu.in/course/b-tech-mechanical-engineering/>

These programs are *explicitly related to the sustainable planning relevant for providing solutions to environmental issues, and climate challenges.* Students are

equipped to integrate sustainability in their respective domain of study leading to a positive impact on environment and society.

MRIIRS also promotes research and innovation that could bring technological solutions to environmental problems. Students are also pursuing research in the area of environmental remediation. Few papers published by students under the supervision of faculty related to environmental remediation, water and soil quality management, novel materials for water treatment in last three years can be accessed through following links:

1. <https://www.scopus.com/record/display.uri?eid=2-s2.0-85179123469&origin=resultslist>
2. <https://www.scopus.com/record/display.uri?eid=2-s2.0-85181851384&origin=resultslist>
3. <https://www.scopus.com/record/display.uri?eid=2-s2.0-85162628992&origin=resultslist>
4. <https://www.scopus.com/record/display.uri?eid=2-s2.0-85173334011&origin=resultslist>
5. https://link.springer.com/chapter/10.1007/978-3-031-21618-3_17
6. <https://link.springer.com/article/10.1007/s10668-023-03309-7>
7. https://www.deswater.com/DWT_abstracts/vol_270/270_2022_142.pdf
8. <https://link.springer.com/article/10.1134/s1070427222090233>
9. <https://iwaponline.com/wpt/article/17/8/1742/89673/Development-and-characterization-of-N-substituted>
10. <https://www.tandfonline.com/doi/abs/10.1080/15569543.2021.1907592>
11. <https://ajap.um.edu.my/index.php/MJS/article/view/17467>

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List of credit-based courses embedded in curricula of various programs is as given below:

Program	Course name	Course Code	Credits
Master of Business Administration	Biomedical Waste Management	MBA-DS-HC-304	3
Master of Business Administration	Introduction to Waste Management and Sanitation	MBA DS-WM 301	3
Master of Business Administration	Waste Management Logistics and Export Procedures	MBA DS-WM 302	3
Master of Business Administration	Regulatory Framework and Environment Impact	MBA DS-WM 303	3
Master of Business Administration	Hotel Waste Management	MBA DS-WM 305	3
Master of Business Administration	E- Waste Management	MBA- DS-WM -401	3
B.A. (Hons.) Applied Psychology	Sustainability and Psychology	BAP-ID-006	3
M.A. Applied Psychology	Corporate Social Responsibility	MPSY-IO-403	3
B.A. (Hons.) Economics	Environment & Resource Economics	BECO-DC-005	4
Masters in Economics	Environmental Economics	MECO-DS-206	4
Masters in Economics	Theory of Growth and Development	MECO-DS-104A	4
B.A. Liberal Arts	Sustainability and Politics	BLA-CVAC 308	2
B.A. Liberal Arts	Theory of Environment Economics	BLA-BGE-703	4
B.A. Liberal Arts	Environmental Sociology	BLA-DDSC-602	4
Common in all programs	Environmental Studies	CH-202B	4

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B.A. Liberal Arts	Art and Sustainability	BLA-DS-205	4
B.Tech Civil Engineering	Environmental Engineering	BCE-DS-602	3
B.Tech Civil Engineering	Disaster Preparedness & Planning	BCE-DS-303	2
B.Tech Civil Engineering	Energy Science and Engineering	BCE-DS-405	2
B.Tech Civil Engineering	Engineering Materials for Sustainability	BCE-DS-523	3
B.Tech Civil Engineering	Sanitation, Solid and liquid waste management	C-706	3
B.Tech Civil Engineering	Remote Sensing and GIS	C-825	4
B.Sc-Interior Design	Living Green	351.309B	2
B.Sc-Nutrition & Dietetics	Health, Food Hygiene & Sanitation	BND-DS-104	2
B.Tech Mechanical Engineering	Power Plant Engineering	BME-DS-525	3
B.Tech Biotechnology	Environment Biotechnology	BBT-DS-602	3
B.Tech Biotechnology	Environment Biotechnology Lab	BBT-DS-652	1.5
B.Tech Biotechnology	Bioremediation Technology	BBT-DS-723	3
B.Sc Microbiology	Environmental Microbiology	BMB-DS-303	4
B.Sc Microbiology	Environmental Microbiology Lab	BMB-DS-352	1.5
M.Tech Biotechnology	Advanced Environmental Biotechnology	M-BT-202	3
M.Tech Biotechnology	Advanced Environmental Biotechnology Lab	M-BT-252	2

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M.Sc. Biotechnology	Biofertilizer and Biopesticide	MS-BT-224	3
M.Sc. Biotechnology	Environment Biotechnology	MS-BT-302	3
M.Sc. Biotechnology	Environment Biotechnology Lab	MS-BT-352	1
M.Tech Civil Engineering	Environmental Impact Assessment	MCE-303	3
B.Sc. Culinary Arts	Food Regulatory Regime: A Global Perspective	BCU-506	1
B.A. Media & Communication	Corporate Social Responsibility	BAMC-SE-501PR	2
B.A. Media & Communication	Environment Journalism Lab	BAMC-SE-551PM	2