

**Earth and Environmental Sciences - Environmental Sc.**  
**BS-MS Course Curriculum**

**Semester V**

<b>Course No.</b>	<b>Course Title</b>	<b>Credits</b>
EES301	Mineralogy	3
EES311	Mineralogy Laboratory	1
EES331	Geohydrology	4
EES333	Environmental Chemistry	3
EES335	Environmental Chemistry Laboratory	1
EES337	Solid Earth Geophysics	4
*** **	Open Elective I	3/4
ECO500	Law Relating to Intellectual Property and Patents	1
Total Credits		20

**Semester VI**

<b>Course No.</b>	<b>Course Title</b>	<b>Credits</b>
EES318	Basic Field Geology	2
EES336	Remote Sensing and GIS	3
EES338	Remote Sensing and GIS Laboratory	1
EES332	Sedimentology and Principles of Stratigraphy	3
EES334	Sedimentology Laboratory	1
EES348	Science of Sustainability	4
EES350	Environmental Pollution	4
*** **	Open Elective II	3/4
Total Credits		21

**Semester VII**

<b>Course No.</b>	<b>Course Title</b>	<b>Credits</b>
EES404	Global Climate Change	3
EES410	Global Climate Change Laboratory	1
EES431	Earth Surface Processes	4
EES437	Data Analyses and Statistics for Geosciences	4
EES441	Environmental Impact Assessment	4
EES***	Departmental Elective I	4
*** **	Open Elective III	3/4
Total Credits		23

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**Semester VIII**

Course No.	Course Title	Credits
EES414	Field Work in Environmental Sciences	2
EES422	Marine Biogeochemical Cycles	4
EES502	Contemporary Environmental Issues	4
EES***	Departmental Elective II	4
EES***	Departmental Elective III	4
EES***	Departmental Elective IV	4
*** **	Open Elective IV	3/4
Total Credits		25

**Semester IX**

Course No.	Course Title	Credits
EES501	MS Thesis	18
Total Credits		18

**Semester X**

Course No.	Course Title	Credits
EES501	MS Thesis	18
Total Credits		18

**\*Out of Four Departmental Electives, at least three departmental electives should be taken from the following**

Course No.	Course Title	Credits
EES604	Aerosol Science	4
EES601	Isotope Geochemistry	4
EES445	Global Climate Change	4
EES607	Advanced Remote Sensing and GIS	4
EES630	Climate Change - Extreme Events	4
EES631	Greenhouse Gas Budgets and Climate Change	4
EES627	Geo-analytical Techniques	4
EES651	Surface Water Hydrology	4
EES652	Geochemical Modelling in Aqueous Geochemistry	4
EES654	Geoinformatics	4
EES605	Indian Monsoon and its Variability	4