

**Earth and Environmental Sciences - Geology**  
**BS-MS Course Curriculum**

**Semester V**

Course No.	Course Title	Credits
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**

Course No.	Course Title	Credits
EES302	Igneous Petrology	3
EES312	Igneous Petrology Laboratory	1
EES318	Basic Field Geology	2
EES332	Sedimentology and Principles of Stratigraphy	3
EES334	Sedimentology Laboratory	1
EES336	Remote Sensing and GIS	3
EES338	Remote Sensing and GIS Laboratory	1
EES340	Structural Geology	3
EES342	Structural Geology Laboratory	1
*** **	Open Elective II	3/4
Total Credits		21

**Semester VII**

Course No.	Course Title	Credits
EES431	Earth Surface Processes	4
EES433	Metamorphic Petrology	3
EES435	Metamorphic Petrology Laboratory	1
EES437	Data Analyses and Statistics for Geosciences	4
EES439	Evolution of the Indian Plate	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
EES412	Advanced Field Geology	2
EES432	Geodynamics	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
EES422/602	Marine Biogeochemical Cycles	4
EES601	Isotope Geochemistry	4
EES603	Mineral Thermodynamics	4
EES607	Advanced Remote Sensing and GIS	4
EES615	Reconstructing Quaternary Continental Environments and Climates of South Asia	4
EES620	Introduction to Paleontology	4
EES622	Economic Geology	4
EES624	Geology of Fules	4
EES627	Geo-analytical Techniques	4
EES629	Advanced Mineralogy	4
EES649	Advanced Structural Geology	4
EES651	Surface Water Hydrology	4
EES652	Geochemical Modelling in Aqueous Geochemistry	4
EES654	Geoinformatics	4