School of Earth Sciences Swami Ramanand Teerth Marathwada University M.Sc. Geology (2 years-4 semesters-100 credits)

	Semester I Code	Theory Paper	Credits	Semester II Code	Theory Paper	Credits	Semester III Code	Theory Paper	Credits	Semester IV Code	Theory Paper	Credits											
	GEO-C101	Mineralogy	4	GEO-C201	Igneous Petrology	4	GEO-C301	Geomorphology and Morphotectonics	4	GEO-C401	Coal and Petroleum Geology	4											
	GEO- C102	Structural Geology and Geotectonics	4	GEO-C202	Thermodynamics And Metamorphic Petrology	4	GEO-C302	Hydrogeology	4	GEO-C402	Economic Geology & Geology of Indian Mineral Deposits	4											
Core Subject (4 Credits)	GEO-C103	Palaeontology	2	GEO-C203	Sedimentary Petrology	2	GEO-C303	GIS and Remote Sensing	4	GEO-C403	Dissertation	4											
	GEO-C104	Geochemistry	2	GEO-C204	Environmental Geology	2																	
	GEO-E101	Geostatistics		GEO-E201	Computer applications in Geology		GEO-E301	Principles of Geophysics		GEO-E401	Geoexploration												
Elective For										GEO-E402	Mining Geology												
	GEO-E102	Crystallography					GEO-E302	Hydro-Geochemistry		GEO-E403	Mineral Economics and National Mineral Policy	2											
Subject/School (2 Credits)	GEO-E103	Geochemistry For Environmental Science	3	GEO-E202	India as a Geological Entity	3	GEO-E303	Watershed Management	3	GEO-E404	Disaster Management	3											
	GEO-E104	Basic Geology					GEO-E304	Geology of Maharashtra		GEO-E405	Engineering Geology												
	GEO-E105	Geology of India					GEO-E305	Groundwater prospecting		GEO-E406	Advanced Geochemistry												
				GEO-OE201	Earth System Sciences	2	GEO-OE301	Fundamentals of GIS and Remote Sensing	2	GEO-OE401	Geological Wealth and Committee of Nations	2											
Open Elective For Other Schools In University (2 Credits)		Origin And Evolution Of Life													GEO-OE202	Geology For Chemists	2						
	GEO- OE101				2	GEO-OE203	Geology For Biologists	2	GEO-OE302	Water Conservation	2	GEO-OE402	Spatial technologies for Societal Development	2									
				GEO-OE204	Geology For Physicists	2																	

Core Subjects: Should Be 75% per Each Semester

Electives for Subject/School: At Least 3/4 Electives (2 Credits) Should Be Provided

Open Electives for Other Schools In The University: At Least 1 Elective (2 Credits) Should Be Provided. Open electives for 4-8 credits need to be completed in 2 year course.

Open Electives Can also Be Obtained From MOOCS/NPTL/SWAYAM

School of Earth Sciences, Swami Ramanand Teerth Marathwada University M.Sc. Geology (2 years-4 semesters-100 credits)

			M.Sc. Geology, I Year, I S	Semester (Tota	al Cr	edits 25)			
Sr. No.	Subject	Code	Theory Paper	Credits		Sr. No.	Code	Practical Paper	Credits
1	Core	GEO-C101	Mineralogy	4		1	GEO-C105	Mineralogy	2
2	Core	GEO-C102	Structural Geology and Geotectonics	4		2	GEO-C106	Structural Geology and Geotectonics	2
3	Core	GEO-C103	Palaeontology	2		3	GEO-C107	Palaeontology	1
4	Core	GEO-C104	Geochemistry	2		4	GEO-C108	Geochemistry	1
		GEO-E101	Geostatistics				GEO-E106	Geostatistics	
		GEO-E102	Crystallography				GEO-E107	Crystallography	
	Discipline Specific Elective Course (DSEC) for	GEO-E103	Geochemistry For Environmental Science	3			GEO-E108	Geochemistry For Environmental Science	1
5	Subject/School Student (Choose any One)	GEO-E104	Basic Geology			5	GEO-E109	Basic Geology	
		GEO-E105	Geology of India			GEO-E110	Geology of India		
6	Generic Elective Course (GEC) (Open Elective) (To be selected by the School Student from other schools in university/ Moocs/Swayam/NPTL/Skill Oriented Course			2		6	GEO-C109	Seminar/Field Report	1
	Open Elective For Other Schools	GEO-OE101	Earth Materials						
	In University	GEO-OE102	Origin And Evolution Of Life						
			Total	17				Total	8

School of Earth Sciences, Swami Ramanand Teerth Marathwada University M.Sc. Geology (2 years-4 semesters-100 credits)

Sr. No.	Subject	Code	Theory Paper	Credits	Sr. No.	Code	Practical Paper	Credits
1	Core	GEO-C201	Igneous Petrology	4	1	GEO-C205	Igneous Petrology	2
2	Core	GEO-C202	Thermodynamics And Metamorphic Petrology	4	2	GEO-C206	Thermodynamics And Metamorphic Petrology	2
3	Core	GEO-C203	Sedimentary Petrology	2	3	GEO-C207	Sedimentary Petrology	1
4	Core	GEO-C204	Environmental Geology	2	4	GEO-C208	Environmental Geology	1
	Discipline Specific Elective Course (DSEC) for	GEO-E201	Computer applications in Geology	3		GEO-E203	Computer applications in Geology	1
5	Subject/School Student (Choose any One)	GEO-E202	India as a Geological Entity		5	GEO-E204		
6	Generic Elective Course (GEC) (Open Elective) (To be selected by the School Student from other schools in university/ Moocs/Swayam/NPTL/Skill Oriented Course				6	GEO-C209	Seminar/Field Report	1
		GEO-OE201	Earth System Sciences	2				
	Open Elective For Other Schools In University	GEO-OE202	Geology For Chemists					
	In Oniversity	GEO-OE203	Geology For Biologists					
		GEO-OE204	Geology For Physicists					
			Total	17			Total	8

School of Earth Sciences, Swami Ramanand Teerth Marathwada University M.Sc. Geology (2 years-4 semesters-100 credits)

			M.Sc. Geology, II Year, III	Semester (To	tal C	redits 25)			
Sr. No.	Subject	Code	Theory Paper	Credits		Sr. No.	Code	Practical Paper	Credits
1	Core	GEO-C301	Geomorphology and Morphotectonics	4		1	GEO-C304	Geomorphology and Morphotectonics	2
2	Core	GEO-C302	Hydrogeology	4		2	GEO-C305	Hydrogeology	2
3	Core	GEO-C303	GIS and Remote Sensing	4		3	GEO-C306	GIS and Remote Sensing	2
		GEO-E301	Principles of Geophysics				GEO-E306	06 Principles of Geophysics 07 Hydro-Geochemistry 08 Watershed Management	
	Discipline Specific Elective	GEO-E302	Hydro-Geochemistry				GEO-E307	Hydro-Geochemistry	
	Course (DSEC) for Subject/School Student (Choose any One)	GEO-E303	Watershed Management	3		5	GEO-E308	Watershed Management	1
4		GEO-E304	Geology of Maharashtra				GEO-E309	Geology of Maharashtra	
		GEO-E305	Groundwater prospecting				GEO-E3010	Groundwater prospecting	
5	Generic Elective Course (GEC) (Open Elective) (To be selected by the School Student from other schools in university/ Moocs/Swayam/NPTEL/ Skill Oriented Course					6	GEO-C307	Seminar/Field Report	1
	Open Elective For Other	GEO-OE301	Fundamentals of GIS and Remote Sensing	2					
	Schools In University	GEO-OE302	Water Conservation						
			Total	17				Total	8

School of Earth Sciences, Swami Ramanand Teerth Marathwada University M.Sc. Geology (2 Years, 200 Credits)

			M.Sc. Geology, II Year, IV	Semester (Tot	tal Cred	lits 25)			
Sr. No.	Subject	Code	Theory Paper	Credits	S	r. No.	Code	Practical Paper	Credits
1	Core	GEO-C401	Coal and Petroleum Geology	4		1	GEO-C404	Coal and Petroleum Geology	2
2	Core	GEO-C402	Economic Geology & Geology of Indian Mineral Deposits	4		2	GEO-C405	Economic Geology & Geology of Indian Mineral Deposits	2
3	Core	GEO-C403	Dissertation	4		3	GEO-C406	Dissertation	2
		GEO-E401	Geoexploration				GEO-E407	Geoexploration	
	Discipline Specific Elective	GEO-E402	Mining Geology				GEO-E408	Mining Geology	
	Course (DSEC) for Subject/School Student	GEO-E403	Mineral Economics and National Mineral Policy	3		5	GEO-E409	Mineral Economics and National Mineral Policy	1
4	(Choose any One)	GEO-E404	Disaster Management				GEO-E4010	Disaster Management	
		GEO-E405	Engineering Geology				GEO-E4011	Engineering Geology	
		GEO-E406	Advanced Geochemistry	-			GEO-E4012	Advanced Geochemistry	
5	Generic Elective Course (GEC) (Open Elective) (To be selected by the School Student from other schools in university/ Moocs/Swayam/NPTL/ Skill Oriented Course					6	GEO-C407	Seminar/Field Report	1
	Open Elective For Other	GEO-OE401	Geological Wealth and Committee of Nations	2					
	Schools In University	GEO-OE402	Spatial technologies for Societal Development						
			Total	17				Total	8