

Sant Gadge Baba Amravati
University, Amravati
FACULTY : Science

Scheme of Teaching, Learning, Examination & Evaluation leading to Two Years PG Degree Master of Science (Geology) following Three Years UG Programme wef 2023-24
(Two Years- Four Semesters Master's Degree Programme- NEPv23 with Exit and Entry Option
M.Sc. I First Year Semester- I

S.N.	Subject	Type of Course	Subject Code	Teaching & Learning Scheme							Duration Of Exam Hours	Examination & Evaluation Scheme									
				Teaching Period Per Week				Credits				Maximum Marks			Minimum Passing						
				L	T	P	Total	L/T	Practical	Total		Theory	Practical	Total Marks	Marks Internal	Marks External	Grade				
												Theory Internal	Theory +MCQ External	Internal	External						
0	*Pre-Requisite Course(s) if applicable/MOOC/Internship/Field Work cumulatively If students wish to opt Minor Course of UG as Major for PG, balance 12 Credits Course will have to be completed (As and when applicable)	Th-Prq									35					50	06	14	P	0	*Pre-Requisite Course(s) if applicable/MOOC/Internship/Field Work cumulatively If students wish to opt Minor Course of UG as Major for PG, balance 12 Credits Course will have to be completed (As and when applicable)
1	Research Methodology and IPR	Th-Major	I GOG 1	4			4	4		4	3	30	70			100	12	28		P	
2	DSC-I.(Mineralogy and Crystallography)	Th-Major	I GOG 2	4			4	4		4	3	30	70			100	12	28		P	

3	DSC-II.(Structural geology and Tectonics)	Th-Major	I GOG 3	4			4	4		4	3	30	70			100	12	28	P	
4	DSC-III. (Stratigraphy)	Th-Major	I GOG 4	3			3	3		3	3	30	70			100	12	28	P	
5	DSE-I 1. Petroleum and Coal Geology or 2. Quaternary Geology and Limnogeology	Th-Major Elective	I GOG 5A OR I GOG 5B	3			3	3		3	3	30	70			100	12	28	P	
																			Minimum Passing Marks	Grade
6	LAB- I (Mineralogy and Structural geology and Tectonics)	Pr-Major	I GOG 6			6	6		3	3	3			50	50	100		50	P	
7	LAB- II (Stratigraphy)	Pr-Major	I GOG 7			2	2		1	1	3			25	25	50		25	P	
8	# On Job Training, Internship/ Apprenticeship; Field projects/tour report Related to Major @ during vacations cumulatively	Related to DSC																		P*
9	Co-curricular Courses: Health and wellness, Yoga Education, Sports and Fitness, Cultural Activities, NSS/NCC, Fine/Applied/Visual/Performing Arts During Semester I, II, III and IV	Generic Optional																		
	TOTAL									22						650+50*				

L: Lecture, T: Tutorial, P: Practical/Practicum

Pre-requisite Course mandatory if applicable: **Prq**, Theory : **Th**, Practical/Practicum: **Pr**, Faculty Specific Core: **FSC**, Discipline Specific Core: **DSC**, Discipline Specific Elective: **DSE**, Laboratory: **Lab**, **OJT**: On Job Training; Internship/ Apprenticeship; Field projects: **FP**; **RM**: Research

Methodology; Research Project: **RP**, **Co-curricular Courses: CC**

Note : # On Job Training, Internship/ Apprenticeship; Field projects **Related to Major (During vacations of Semester I and Semester II) for duration of 120 hours mandatory to all the students, to be completed during vacations of Semester I and/or II. This will carry 4 Credits for learning of 120 hours. Its credits and grades will be reflected in Semester II credit grade report.**

Note: Co-curricular Courses: In addition to the above, CC also include but not limited to Academic activities like paper presentations in conferences, Aavishkar, start-ups, Hackathon, Quiz competitions, Article published, Participation in Summer school/ Winter School / Short term course, Scientific Surveys, Societal Surveys, Field Visits, Study tours, Industrial Visits, online/offline Courses on Yoga (Yoga for IQ development, Yoga for Ego development, Yoga for Anger Management, Yoga for Eyesight Improvement, Yoga for Physical Stamina, Yoga for Stress Management, etc.). These can be completed cumulatively during **Semester I, II, III and IV. Its credits and grades will be reflected in semester IV credit grade report.**



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M. S c (I) First Year Semester- II [Level 6.0]

S. N.	Subject	Type of Course	Subject Code	Teaching & Learning Scheme							Duration Of Exam Hours	Examination & Evaluation Scheme							
				Teaching Period Per Week				Credits				Maximum Marks					Minimum Passing		
				L	T	P	Total	L/T	Practical	Total		Theory		Practical		Total Marks			
									I			Theory Internal	Theory +MCQ External	Internal	External		Marks Internal	Marks External	Grade
1	DSC-I. (Igneous Petrology)	Th-Major	II GOG 1	4			4	4		4	3	30	70			100	12	28	P
2	DSC-II (Metamorphic Petrology)	Th-Major	II GOG 2	4			4	4		4	3	30	70			100	12	28	P
3	DSC-III (Sedimentology)	Th-Major	II GOG 3	3			3	3		3	3	30	70			100	12	28	P
4	DSE-II/MOOC 1. Exploration Methods or 2. Marine Geology	Th-Major Elective	II GOG 4A OR II GOG 4B	3			3	3		3	3	30	70			100	12	28	P
																	Minimum Passing Marks		
5	LAB III (Igneous Petrology and Metamorphic Petrology)	Pr-Major	II GOG 5			6	6		3	3	3			50	50	100	50		P
6	LAB IV (Sedimentology)	Pr-Major	II GOG 6			2	2		1	1	3			25	25	50	25		P

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M.S c (II) Second Year Semester- III

S. N.	Subject	Type of Course	Subject Code	Teaching & Learning Scheme							Duration of Exam Hours	Examination & Evaluation Scheme							
				Teaching Period Per Week				Credits				Maximum Marks							
												Theory		Practical		Total Marks			
				L	T	P	Total	L/T	Practical	Total		L	T	P	Internal		External	Marks Internal	L
1	DSC-I Contemporary Applied Technological Advancements in Research relevant/supportive to Major	Th-Major	III GOG 1	4			4	4		4	3	30	70			100	12	28	P
2	DSC-II (Hydrogeology)	Th-Major	III GOG 2	4			4	4		4	3	30	70			100	12	28	P
3	DSC-III (Ore Geology and Mining Geology)	Th-Major	III GOG 3	3			3	3		3	3	30	70			100	12	28	P
4	DSE-III/MOOC 1. Geochemistry and Analytical Techniques or 2. Indian Mineral Deposit and Mineral Economics	Th-Major Elective	III GOG 4A OR III GOG 4B	3			3	3		3	3	30	70			100	12	28	P
																	Minimum Passing Marks		
5	LAB V (Hydrogeology and Ore Geology & Mining)	Pr-Major	III GOG 5			8	8		4	4	3			50	50	100	50		P

	Geology)																		
6	Research Project Phase-I	Major	III GOG 6 (RPP-I)		2	4	6	2	2	4				50	--	50	25	P	
7	Co-curricular Courses: Health and wellness, Yoga Education, Sports and Fitness, Cultural Activities, NSS/NCC, Fine/Applied/Visual/Perfor ming Arts During Semester I, II, III and IV	Generic Optional		90 Hours Cumul atively From Sem I to Sem IV															
	TOTAL									22						550			

L: Lecture, T: Tutorial, P: Practical/Practicum

Pre-requisite Course mandatory if applicable: **Prq**, Theory : **Th**, Practical/Practicum: **Pr**, Faculty Specific Core: **FSC**, Discipline Specific Core: **DSC**, Discipline Specific Elective: **DSE**, Laboratory: **Lab**, **OJT**: On Job Training: Internship/ Apprenticeship; Field projects: **FP**; **RM**: Research Methodology; Research Project: **RP**, **Co-curricular Courses: CC**

Note: **Co-curricular Courses**: In addition to the above, CC also include but not limited to Academic activities like paper presentations in conferences, Aavishkar, start-ups, Hackathon, Quiz competitions, Article published, Participation in Summer school/ Winter School / Short term course, Scientific Surveys, Societal Surveys, Field Visits, Study tours, Industrial Visits, online/offline Courses on Yoga (Yoga for IQ development, Yoga for Ego development, Yoga for Anger Management, Yoga for Eyesight Improvement, Yoga for Physical Stamina, Yoga for Stress Management, etc.). These can be completed cumulatively during **Semester I, II, III and IV**. **Its credits and grades will be reflected in semester IV credit grade report.**

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				Teaching Period Per Week				Credits				Maximum Marks			Minimum Passing				
				Theory		Practical		Total Marks	Marks Internal	Marks External		Grade							
				L	T	P	Total						L/T	Practical	Total	Theory Internal	Theory +MCQ External	Internal	External
1	DSC-I (Remote Sensing and GIS)	Th-Major	IV GOG 1	4			4	4		4	3	30	70			100	12	28	P
2	DSC-II (Geomorphology and Field Geology)	Th-Major	IV GOG 2	4			4	4		4	3	30	70			100	12	28	P
3	DSC- III Paleobiology	Th-Major	IV GOG 3	3			3	3		3	3	30	70			100	12	28	P
4	DSE-IV /MOOC 1. Environmental and Engineering Geology OR 2. Basic Oceanography and Climatology	Th-Major Elective	IV GOG 4A OR IV GOG 4B				3	3		3	3	30	70			100	12	28	P
																	Minimum Passing Marks		
5	LAB III (Remote Sensing and Geomorphology & Field Geology)	Pr-Major	IV GOG 5			6	6		3	3	3			50	50	100	50		P

6	LAB IV (Paleobiology)	Pr-Major	IV GOG 6			2	2		1	1	3			25	25	50	25	P	
7	Research Project Phase-II and Field tour report	Major	IV GOG 7 (RPP-II)		2	8	10	2	4	6	3			75	75	150	75	P	
8	Co-curricular Courses: Health and wellness, Yoga Education, Sports and Fitness, Cultural Activities, NSS/NCC, Fine/Applied/Visual/Performing Arts During Semester I, II, III and IV	Generic Optional		90 Hours Cumulatively From Sem I to Sem IV															
	TOTAL									24						700			

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Note: **Co-curricular Courses**: In addition to the above, CC also include but not limited to Academic activities like paper presentations in conferences, Aavishkar, start-ups, Hackathon, Quiz competitions, Article published, Participation in Summer school/ Winter School / Short term course, Scientific Surveys, Societal Surveys, Field Visits, Study tours, Industrial Visits, online/offline Courses on Yoga (Yoga for IQ development, Yoga for Ego development, Yoga for Anger Management, Yoga for Eyesight Improvement, Yoga for Physical Stamina, Yoga for Stress Management, etc.). These can be completed cumulatively during **Semester I, II, III and IV**. **Its credits and grades will be reflected in semester IV credit grade report**

