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

					Tes	achin	19 & Les	arning	g Scheme							Examina	tion & Eval	luation Sche	me
									, seneme		Duration Of Exam		M	laximun Marks	l	1			
S.N.	. Subject	Type of Course	Subject Code		P	ching eriod Per Veek			Credits	s	Hours	The	ory	Pra	ictical	Total Mark s		Minim	ım Passing
				L	Т	P	Tota l	L/ T	Practic al	Tota l		Theor y Intern al	Theory +MCQ Externa l	Inter nal	Extern al		Marks Internal	Marks External	Grade
0	*Pre-Requisite Course(s) if applicable/MOOC/Internship/F ieldWork 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		0	0	0	0	to I min Cre Ma Cou (mi (2).T alrea from as M	edits jor urses in nus) The Cre	(1). (1). from DSC UG edits ened urse UG,	35			50	06	14	P	0	*Pre-Requisite Course(s) if applicable/MOO C/Internship/Fiel dWork cumulativelyIf 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
																	Minimur	n 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	2	25	P
8	# On Job Training, Internship/ Apprenticeship; Field projects/tour report Related to Major @ during vacations cumulatively	Related toDSC		cumu	iring tions (ster Ia	ely of and				4*									P*
9	Co-curricular Courses: Health and wellness, Yoga Education, Sports and Fitness, Cultural Activities, NSS/NCC, Fine/Applied/Visual/Performi ng Arts During Semester I, II, III and IV	Generic Optional		Ho Cu ati From	90 Hours Cumul atively rom Sem I to Sem IV														
	TOTAL									22						650+50			

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

Pre-requisite Course mandatory if applicable: **Prq**, Theory: **Th**, Pracstical/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, 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. Sc (I) First Year Semester- II [Level 6.0]

									rning Sche		Duratio	-1			Examina	tion & E	valuation S	Scheme	
		Type						•			nOf		Maxi	mum Mar	ks				
S. N.	Subject	of Cou rse	Subject Code		Pe	iching riod P Week	er		Credits		Exam Hours	The	_	P	ractical	Total Mark	N	Iinimum P	assing
		130		L	Т	P	Total	L/T	Practica l	Total		Theory Interna l	Theory +MCQ External	Interna l	Externa l	S	Marks Interna l	Marks Externa l	
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 Electi ve	II GOG 4A OR II GOG 4B	3			3	3		3	3	30	70			100	12	28	P
										J.		2					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	2	25	P

7	# On Job Training, Internship/ Apprenticeship; Field projects/tour report Related to Major @ during vacations cumulatively	Relate d to Majo r	120 Hours cumulatively during vacations of Semester I and Semester II			4*								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 Cumulativel y From Sem I toSem IV													
	3 7 7		Exit Option with a PG Diploma with 4 Credits On-the-job training/internship in the respective Major subject • Student has to earn Total minimum 4 Credits cumulatively during Vacations of Semester I and Semester II from internship in order to exit after First Year with PG Diploma (42-44 Credits) after Three Year UG Degree													
	TOTAL					18+4*					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: # 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, Field Visits, Study tours, Industrial Visits, online/offline Courses on Yoga (Yoga for IQ development, Yoga for Ego development, 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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FACULTY: Science

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									1.5 C (11)	occona					Fva	mination	& Evaluatio	n Scheme	
		Туре						Lear	ning Sche	me	Durati onOf		N	1aximum Marks	Exa	illination (& Evaluatio		
S. N.	Subject	of Cour se	Subject Code			ching eriod Per Veek			Credi ts		Exam Hours	Theo y			ractical	Total			
				L	Т	P	Total	L/ T	Practic al	Total	L	Т	P	Intern al	Extern al	Marks	Marks Internal	L	T
1	DSC-I Contemporary Applied Technological Advancements in Research relevant/supportive to Major	Th- Major	III GOG 1	4			4 54	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 - 60800 Begggt H288 3 - 60 - 72	3	30	70			100	12	28	P
																	Minimun N	n Passing Marks	
5	LAB V (Hydrogeology and Ore Geology & Mining	Pr- Major	III GOG 5			8	8		4	4	3			50	50	100	5	0	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 mingArts During Semester I, II, III and IV	Generic Optional		H C a From	90 Hours Cumul tively 1 Sem Em IV	l , I to									
	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, Field Visits, Study tours, Industrial Visits, online/offline Courses on Yoga (Yoga for IQ development, Yoga for Ego development, 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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											lear Semeste			Exami	ination & l	Evaluation	Scheme		
						Т	eaching	& Lea	rning S	Scheme	Duration		N	Maximum Marks					
S. N.	Subject	Type of Cou rse	Subject Code		To	eachin g Perio dPer Week			Cre dits		Of Exam Hours	Th			Practical	Total		Minimum 1	Passing
				L	Т	P	Tot al	L/T	Prac tical	Tota l	7	Theo ry Inter nal	Theory +MCQ Extern al	Intern al	Extern al	Marks	Marks Interna l	Marks External	Grade
1	DSC-I (Remote Sensing and GIS)	Th- Major	IV GOG 1	4			4	4		4	3	3 0	70			100	12	28	P
2	DSC-II (Geomorphology and Field Geology)	Th- Major	IV GOG 2	4			4	4		4	3	3 0	70			100	12	28	P
3	DSC- III Paleobiology	Th- Major	IV GOG 3	3			3	3		3	3	3 0	70			100	12	28	P
4	DSE-IV /MOOC 1. Environmental and Engineering Geology OR 2. Basic Oceonography and Climatology	Th- Major Electi ve	IV GOG 4A OR IV GOG 4B	3			3	3	# 53 # 53	3	3	3 0	70			100	12	28	P
																	Minimum Passing Marks		
5	LAB III (Remote Sensing and Geomorphology & Field Geology)	Pr- Majo r	IV GOG 5			6	6		3	3	3			50	50	100	50		P

6	LAB IV (Paleobiology)	Pr- Majo r	IV GOG 6			2	2		1	1	3	25	25	50	25	5	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	5	P
8	Co-curricular Courses: Health and wellness, Yoga Education, Sports and Fitness, Cultural Activities, NSS/NCC, Fine/Applied/Visual/Performi ngArts During Semester I, II, III and IV	Generic Optiona I		He Cu la Fron	90 ours imu tivel y a Sem em IV									700			
1	TOTAL									24				700			

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 repor