

STRUCTURE OF THE SYLLABUS FOR 4 YEAR UG PROGRAMME

SCHOOL NAME - RSEES

DEPARTMENT NAME - GEOLOGY

PROGRAMME NAME - B.Sc. GEOLOGY

1st SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major	GEOL162M141	Physical Geology	100	3	2-0-1
Major	GEOL162M142	Mineral Science	100	3	2-0-1
Minor	GEOL162N101	Physical Geology	100	3	3-0-0
Interdisciplinary (IDC)	IKS992K101	Indian Knowledge System 1	-	3	
Ability Enhancement course (AEC)	CEN982A101	Communicative English I	-	1	
Ability Enhancement course (AEC)	BHS982A104	Behavioural Science I	-	1	
Skill Enhancement Course (SEC)	GEOL162S111	Geological Mapping and Surveying	-	3	0-0-3
Value Added Course (VAC)		VAC 1 (Basket Course)	-	3	
		<i>Course through SWAYAM platform (to be selected by the department)</i>		3 or 4	
TOTAL CREDIT FOR 1st SEMESTER				20 + (3 or 4)	
2nd SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major	GEOL162M241	Geochemistry	100	3	2-0-1
Major	GEOL162M242	Igneous Petrology	100	3	2-0-1
Minor	GEOL162N201	Geology and Natural Hazards	100	3	3-0-0
IDC	IKS992K201	Indian Knowledge System 2	-	3	
AEC	CEN982A201	Communicative English II	-	1	
AEC	BHS982A202	Behavioural Science II	-	1	
SEC	GEOL162S211	Geomorphology and Landform Analysis	-	3	0-0-3

VAC		VAC 2 (Basket Course)	-	3	
		<i>Course through SWAYAM platform (to be selected by the department)</i>		3 or 4	
TOTAL CREDIT FOR 2nd SEMESTER				20 + (3 or 4)	
3rd SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major	GEOL162M341	Metamorphic Petrology	200	4	3-0-1
Major	GEOL162M342	Sedimentology	200	4	3-0-1
Minor	GEOL162N341	Mineralogy	200	4	3-0-1
IDC	GEOL162I301	Physics and Chemistry of Earth (Basket Course)	-	3	3-0-0
AEC	CEN982A301	Communicative English III	-	1	
AEC	BHS982A304	Behavioural Science III	-	1	
SEC	GEOL162S311	Remote Sensing and GIS	-	3	0-0-3
		<i>Course through SWAYAM platform (to be selected by the department)</i>		3 or 4	
TOTAL CREDIT FOR 3rd SEMESTER				20 + (3 or 4)	
4th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major	GEOL162M441	Principles of Stratigraphy	200	4	3-0-1
Major	GEOL162M442	Palaeontology	200	4	3-0-1
Major	GEOL162M403	Earth Science in Ancient India (IKS)	200	4	3-1-0
Minor	GEOL162N441	Petrology	200	3	2-0-1
Minor	GEOL162N442	Structural Geology	200	3	2-0-1
AEC	CEN982A401	Communicative English IV	-	1	
AEC	BHS982A404	Behavioural Science IV	-	1	
		<i>Course through SWAYAM platform (to be selected by the department)</i>		3 or 4	
TOTAL CREDIT FOR 4th SEMESTER				20 + (3 or 4)	
5th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major	GEOL162M541	Structural Geology	300	4	3-0-1

Major	GEOL162M502	Indian Stratigraphy	300	4	3-1-0
Major	GEOL162M543	Hydrogeology	300	4	3-0-1
Major	GEOL162M524	Summer Internship	-	4	0-0-4
Minor	GEOL162N541	Fuel Geology	200	4	3-0-1
TOTAL CREDIT FOR 5th SEMESTER				20	
6th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major	GEOL162M601	Geostatistics	300	4	3-1-0
Major	GEOL162M642	Economic Geology	300	4	3-0-1
Major	GEOL162M643	Engineering and Environmental Geology	300	4	3-0-1
Major	GEOL162M644	Fuel Geology	300	4	3-0-1
Minor	GEOL162N601	Environmental Geology	200	4	3-1-0
TOTAL CREDIT FOR 6th SEMESTER				20	
7th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major	GEOL162M741	Advanced Structural Geology and Tectonics	400	4	3-0-1
Major	GEOL162M742	Advanced Igneous and Metamorphic Petrology	400	4	3-0-1
Major	GEOL162M743	Advanced Sedimentology and Quaternary Geology	400	4	3-0-1
Major	GEOL162M704	Climatology and Oceanography	400	4	3-1-0
Minor	GEOL162N701	Stratigraphy	300	4	3-1-0
TOTAL CREDIT FOR 7th SEMESTER				20	
8th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major	GEOL162M841	Geomorphology	400	4	3-0-1
Major	GEOL162M802	Research Methodology	400	4	3-1-0
Project / Dissertation	GEOL162M823	Dissertation	-	12	0-0-12
Advanced Course in lieu of Dissertation	GEOL162M804	Geology of North-East India	400	4	3-1-0
	GEOL162M805	Planetary Geology	400	4	3-1-0
	GEOL162M806	Urban Geology	400	4	3-1-0
TOTAL CREDIT FOR 8th SEMESTER				20	