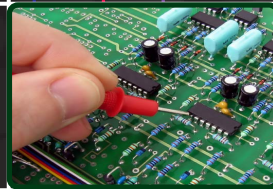


SANGAI INTERNATIONAL UNIVERSITY



Syllabus for B.Sc (Hons.) Geology

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**Six Semester Course Under
Choice Based Credit System**

YEAR	SEMESTER	CORE COURSE (14)	ABILITY ENHANCEMENT COURSE (2)	SKILL ENHANCEMENT COURSE (3)	DISCIPLINE SPECIFIC ELECTIVE (DSE) (4)	GENERIC ELECTIVE (GE) (4)
1 st Year	I	i) EARTH SYSTEM SCIENCE ii) MINERAL SCIENCE	COMMUNICATIVE ENGLISH			GE-1
	II	iii) ELEMENTS OF GEOCHEMISTRY iv) STRUCTURAL GEOLOGY	ENVIRONMENTAL SCIENCE			GE-2
2 nd Year	III	v) IGNEOUS PETROLOGY vi) SEDIMENTARY PETROLOGY vii) PALEONTOLOGY		SEC-I (Field Work-I)		GE-3
	IV	viii) METAMORPHIC PETROLOGY ix) STRATIGRAPHIC PRINCIPLES AND INDIAN STRATIGRAPHY x) HYDROGEOLOGY		SEC-II (Field Work-II)		GE-4
3 rd Year	V	xi) ECONOMIC GEOLOGY xii) GEOMORPHOLOGY			DSE - 1 DSE - 2	
	VI	xiii) ENGINEERING GEOLOGY xiv) REMOTE SENSING AND GIS			DSE - 3 DSE - 4	

SEMESTER	COURSE OPTED	COURSE NAME	CREDIT
I	Ability Enhancement: compulsory course - I	Communicative English	2
	Core Course - I	Earth System Science	4
	Core Course – I (Practical)		2
	Core Course - II	Mineral Science	4
	Core Course – II (Practical)		2
	Generic Elective – I	GE - I	6
		Total Credit	20
SEMESTER	COURSE OPTED	COURSE NAME	CREDIT
II	Ability Enhancement: compulsory course - II	Environmental Science	2
	Core Course – III	Elements of Geochemistry	4
	Core Course – III (Practical)		2
	Core Course - IV	Structural Geology	4
	Core Course – IV (Practical)		2
	Generic Elective - II	GE – II	6
		Total Credit	20

SEMESTER	COURSE OPTED	COURSE NAME	CREDIT
III	Core Course – V	Igneous Petrology	4
	Core Course – V (Practical)		2

	Core Course - VI	Sedimentary Petrology	4
	Core Course – VI (Practical)		2
	Core Course – VII	Paleontology	4
	Core Course – VII (Practical)		2
	Generic Elective - III		6
	Skill enhancement course - I	Field Work - I	2
		Total Credit	26
SEMESTER	COURSE OPTED	COURSE NAME	CREDIT
IV	Core Course – VIII	Metamorphic Petrology	4
	Core Course – VIII (Practical)		2
	Core Course – IX	Stratigraphic Principles and Indian Stratigraphy	4
	Core Course IX Practical		2
	Core Course – X	Hydrogeology	4
	Core Course – X (Practical)		2
	Skill Enhancement Course - II	Field Work - II	2
	Generic Elective - IV	GE - 4	6
		Total Credit	26

SEMESTER	COURSE OPTED	COURSE NAME	CREDIT
V	Core Course – XI	Economic Geology	4
	Core Course – XI (Practical)		2

	Core Course – XII	Geomorphology	4
	Core Course – XII (Practical)		2
	Discipline Specific Elective - I	DCE - I	4
	Discipline Specific Elective - I (Practical)		2
	Discipline Specific Elective - II	DCE - II	4
	Discipline Specific Elective - II (Practical)		2
		Total Credit	24
SEMESTER	COURSE OPTED	COURSE NAME	CREDIT
VI	Core Course – XIII	Engineering Geology	4
	Core Course – XIII (Practical)		2
	Core Course – XIV	Remote Sensing & GIS	4
	Core Course – XIV (Practical)		2
	Discipline Specific Elective - III	DSE - III	4
	Discipline Specific Elective (Practical - III)		2
	Discipline Specific Elective - IV	DSE - IV	4
	Discipline Specific Elective (Practical - IV)		2
		Total Credit	24
Grand Total of Credits in Six Semesters			140