JIS UNIVERSITY

DEPARTMENT OF EARTH SCIENCES AND REMOTE SENSING

B.Sc GEOLOGY NEP2020 SYLLABUS

Semester	Discipline Specific Courses - Core	Minor	Interdisciplinary courses (IDC)	Ability Enhancement courses (language) (AEC)	Skill Enhancement courses /Internship /Dissertation (SEC)	Common ValueAdded Courses (CVC)	Total Credit
I			1 course	1 course	1 course	1	20
II			1 course	1 course	1 course	1	20
credits in work based vo	ocational courses offered	40 credits will be awarded UG during summer term or into earned during first and second	ernship / Apprenticesh	•	subject provide	eu mey secure 4	
Ш			1 course	1 course	1 course	Nil	20
IV			Nil	1 course	Nil	Nil	20
	_	30 credits will be awarded UG ses offered during first year G	•	•	ubject provided	they secure	
V			Nil	Nil	Internship	Nil	20
VI			Nil	Nil	Nil	Nil	20
Students who want to u	ındertake 3-year UG pro	gramme will be awarded UG	Degree in the relevant	Discipline /Subj	ect upon securi	ing 120 credits	
VII							20
					(Research		
VIII					Project/		20
					Dissertation)		

Broad Category of Course	Minimum Credit Requirement			
	3 years		4 years	
Major (Core)		60	80	
Minor Stream		24	32	
Multidisciplinary		9	S	
Ability Enhancement Courses (AEC)		8	8	
Skill Enhancement Courses (SEC)		9	g	
Value Added Courses common for all UG	6 to 8		6 to 8	
Summer Internship	2 to 4		2 to 4	
Research Project / Dissertation		0	12	
		120	160	

SEM	SUB TYPE	SUB	CREDIT
	Corel Major (Core)	Earth System Science Theory	4
	Corell Minor Stream	Mineral Science Theory	4
	Core II Prac	Mineral Science I Laboratory	2
	IDC Multidisciplinary	Physics I: Thermal Physics	4
	IDC Multidisciplinary	Physics I: Thermal Physics Laboratory	2
ı	IDC Multidisciplinary	Mathematics I	4
	AEC	Basic English	2
	SEC	Disaster Management	3
	CVC	Human Values and Ethics	3
		SKILL-X	1
		SEMINAR	1
		TOTAL CREDIT	28

SEM	SUB TYPE	SUB	CREDIT
	Corel Major (Core)	Geomorphology	4
	Corell Minor Stream	Structural geology	4
	Corel Prac	Geomorphology Laboratory	2
	Core II Prac	Structural Geology Laboratory	2
	IDC Multidisciplinary	Mathematics II	4
II	IDC Multidisciplinary	Physics II: Electricity and magnetism	4
	IDC Multidisciplinary	Physics II: Electricity and magnetism Laboratory	2
	AEC	English Advance	2
	SEC	Basic Field Geology	2
	cvc	Environmental Science	3
		SKILL-X	1
		SEMINAR	1
		TOTAL CREDIT	29

	Corel Major (Core)	Petrology I Theory	4		it orei iviaior it orei	Petrology II Theory	4
	Corell Major (Core)	Geochemistry Theory	4		Corell Major (Core)	Stratigraphy and Palaeontology Theory	4
	Corel III Minor Stream	Hydrogeology Theory	4		lCara III Minar Straam	Economic Geology	4
	Core I Prac	Petrology I Laboratory	2		l orel Prac	Petrology II Laboratory	2
III	Corel III Minor Stream	Hydrogeology Lab	2	IV	Core II Prac	Stratigraphy and Palaeontology Lab	2
	IDC Multidisciplinary	Mathematics III	4			Summer Internship	4
	AEC	Entrepreneurship Development	2				
	SEC	Soft Skills in Geology	3		AEC	Basic Analytical Chemistry for Geologists	2
		SKILL-X	1			SKILL-X	1
		SEMINAR	1			SEMINAR	1
		TOTAL CREDIT	25			TOTAL CREDIT	22

TOTAL CREDIT	140		
		TOTAL CREDIT	18
		SEMINAR	1
		SKILL-X	1
		Fossil Fuel Practical	2
V	Coreil Lab	Engineering Geology Laboratory	2
	li orei i an	Remote Sensing and GIS Laboratory	2
	CorellI	Fossil Fuel	4
	Corell	Engineering Geology Theory	4
	Corei	Remote Sensing and GIS Theory	4

		TOTAL CREDIT	18
		SEMINAR	1
		SKILL-X	1
	MOOCS	NPTEL	4
	AEC	Mine Visit	4
VI	SEC	Geological Field Mapping	4
	Core II	Exploration Geophysics Practical	2
	Core I	Exploration Geophysics Theory	4