			Semest	ter Lecture Plan			
Name of the College: Gov	ernment (ີດ∐eσ	e of Arts Science	& Commerce San	quelim Goa		
tune of the conege.		coneg	e of this beliefe				
Name of Faculty: Mr. Bra	hmanand	Sawai	nt		Subje	ct: Geology	
•							
Paper code: GEO221 Eng	gineering	Geolo	gy	Program/Course	e: S.Y. B.Sc.	Division:	
Academic year: 2024 - 202	25	Academic year: 2024 - 2025			Semester: IV		0
Course Objectives: 1) To describe the engineer 2) To get acquainted with v				nples			
· ·	rarious test nvestigatio	ts carri ons for	ed out on rock sar selection of sites f	or engineering proje	cts		
 To describe the engineer To get acquainted with v To carry out geological in 	rarious test nvestigatio	ts carri ons for	ed out on rock sar selection of sites f	or engineering proje	cts		

- Students will be able to suggest the suitability of sites for various engineering projects
 They can determine the engineering properties of rocks performing various tests
 They can prepare a report giving suggestions for the improvement of site if not suitable for construction

Month	L	ectures	No. of	Topic, Subtopic to be	Exercise	ICT Tools	Reference books	
MOHUI	From:	To:	lectures	covered	/Assignment	101 10018	Reference books	

				Introduction to Dams	Reading material shared	Power point presentation	
				Function of a dam		Power point presentation	
DEC 2024	DEC 2024 9-12-2024	14-12-2024	2				_
22021							1.Engineering & General Geology
							by Parbin Singh 2. Textbook of
				How to select a Dam site	Reading material shared	Power point presentation	Engineering Geology by N Chenna Kesavulu
				Classification of Dams		Power point presentation	
January 16-12-2024	16-12-2024	21-12-2024	2				

				Types of Dams			
	06-01-2025	11-01-2025	02	Dams in India	Reading material shared	Power point presentation	
	13-01-2025	18-01-2025		Gravity Dam		Power point presentation	
			2	Arch Dam		Power point presentation	
				Butress Dam	Reading material shared	Power point presentation	Engineering &
	20-01-2025	25-01-2025	02	Composite Dam		Power point presentation	General Geology by Parbin Singh
						Power point presentation	2. Textbook of
							Engineering Geology by N Chenna Kesavulu
Jan/Feb							

	27-01-2025	1-02-2025		Embankment Dam Forces acting on a Dam		Power Point Presentation Power Point Presentation	1 Engineering & General Geology by Parbin Singh 2. Textbook of
	3-02-2025	08-02-2025		Parts of Dams	Reading material shared	Power Point Presentation	Engineering Geology by N Chenna Kesavulu
				Induced Seismicity		Power Point Presentation	
	10-02-2025	15-02-2025	02	Suitability of Rocks Suitability of igneous rocks	Literature review	Power Point Presentation Power Point Presentation	1 Engineering & General Geology
Feb	17-02-2025	22-02-2025	02	Suitability of sedimentary rocks Suitability of metamorphic rocks	Literature review	Power Point Presentation Power Point Presentation Power Point Presentation	by Parbin Singh 2. Textbook of Engineering Geology by N Chenna Kesavulu
	24-02-2025	1-03-2025	02	Effect of intrusion on stability of dam		Power Point Presentation	

				Effect of weathering on dams		Power Point Presentation	
	3-3-2025			Effect of rock structures on stability of a dam		Power Point Presentation	Engineering & General Geology by Parbin Singh
		08-03-2025	02	Tunnels	Literature review	Power Point Presentation	2. Textbook of Engineering
				Types of tunnels		Power Point Presentation	Geology by N Chenna Kesavulu
	10-03-2025	15-03-2025	02	Hard ground tunneling		Power Point Presentation	
			02	Soft ground Tunneling		Power Point Presentation	
				Effect of structures on stability of tunnel		Power Point Presentation	Engineering & General Geology
	17-03-2025	22-3-2025	02	Roads and Highways	Literature review	Power Point Presentation	by Parbin Singh
		ÿ 2	Effect of structures on Road stability		Power Point Presentation	2. Textbook of Engineering Geology by N Chenna Kesavulu	
	24-3-2025 29-3-2025			Bridges		Power Point Presentation	
		02	Types of Bridges		Power Point Presentation		
March				RQD		Power Point Presentation	

M 1	31-3-2025	5-3-2025	02	Improvement in sites: Grouting, Backfilling	Literature review	Power Point Presentation
March			02	Revision		Power Point Presentation
				Revision		Power Point Presentation
	7-04-2025	12-04-2025	02	Revision		
	, 5. 2025					
				Revision		

COMPONENT	MAXIMUM MARKS
ISA I	07
ISA II	08
PRACTICAL	25
SEMESTER END EXAM	60
TOTAL	100