

		Semester Lecture Plan					
Name of the college: Government College of Arts, Science & Commerce, Sanquelim, Goa-India							
Name of Faculty: Brahmanand N Sawant			Subject: Geology				
Paper code: GEC108- SEDIMENTARY PETROLOGY			Program/Course: TY B.Sc.		Division:		
Academic year: 2024 - 2025			Semester: VI		Total Lectures: 60		
Course Objectives: To understand the formation of various sedimentary rocks, their distribution and mode of formation and to describe economic minerals associated with it.							
Course Learning Outcome: To understand physical, chemical and biological processes that generate sediments, Discuss the various sedimentary rocks, their mode of formation, classification and occurrence in nature, to interpret the environments of deposition from the study of nature of sediments & depositional structures.							
Month	Lectures From: To:		No. of lectures allotted	Topic, Subtopic to be covered	ICT Tools	Reference books	
Dec	09/12/2024	14/12/2024	04	Introduction to this paper and syllabus discussion	PPT	Sedimentary rocks by F, J pettijoh;	
	16/12/2023	21/12/2023	04	Sedimentary processes	Powerpoint Presentation	Introduction to sedimentary rocks by Maurice E Tucker	
				Diagenesis of sediments			

	2/01/2025	11/01/2025		Size frequency distribution	Powerpoint presentation	Sedimentary rocks by F, J pettijoh; Introduction to sedimentary rocks by Maurice E Tucker
				Grain size analysis		
				Fabric and packing in Grains		
Jan/Feb	13/01/2025	2/01/2025	04	Fabric in Gravels	PPT	Sedimentary rocks by F, J pettijohn; Introduction to sedimentary rocks by Maurice E Tucker
				Sphericity		
				Roundness		
	20/01/2025	25/01/2025	04	Structure in rocks	PPT	
				Bedding and laminations		
				Depositional & Erosional Structures		
	27/01/2025	1/02/2025	04	Texture in sedimentary rocks	PPT	
				Classification of sedimentary rocks		
				Post depositional structures		
	03/02/2025	08/02/2025	04	Conglomerates	PPT	
				Breccias		
				Types of Breccia and conglomerates		
	10/02/2025	15/02/2025	04	Classification of Rudaceous rocks	PPT	
				Textural Maturity		
				Compositional Maturity		
		/02/2025				

	17/02/2025	22/02/2025	04	Mineralogy of sandstones	PPT	
				Litharenites		
				Quartz arenites		
				Arkoses		
				Mineralogy of argillites		
				Classification and diagenesis of Argillites		
	24/02/2025	1/03/2025	04	Evaporites	PPT	
				Phosphatic sediments		
				Siliceous sediments		
March	3/03/2025	8/03/2025	04	Ferruginous sediments	PPT	
				Coal Deposits		
				Residual laterite		
				Bauxites and soils		
March				Structural basins	PPT	Sedimentary rocks by F, J pettijohn; Introduction to sedimentary rocks by Maurice E Tucker
				Morphological basins		
				Tectonic basins		
				Geosynclines		
	10/03/2025	15/03/2025	04			
March			04		PPT	Sedimentary rocks by F, J pettijoh;

	17/03/2025	22/03/2025		Different depositional environments and its physical, chemical and organic factors		Introduction to sedimentary rocks by Maurice E Tucker
March	31/03/2025	5/04/2025	04	Flysch and molasses sediments Revision	PPT	Sedimentary rocks by F, J pettijoh; Introduction to sedimentary rocks by Maurice E Tucker
April	7/4/2025	12/4/2025	04	ZTR index, grain size parametres	PPT	

COMPONENT	MAXIMUM MARKS
ISA I	10
ISA II	10
PRACTICAL	50
SEMESTER END EXAM	80
TOTAL	150