

		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: GEO300- ORE GENESIS			Program/Course: Ty B.Sc.		Division:		
Academic year: 2026 - 2027			Semester: V		Total Lectures: 45		
Course Objectives: 1. Students will distinguish the ores based on their physical properties and plate tectonic environments2. Students will describe the ore forming process							
Course Learning Outcome: 1. Students will explain the ore forming process. 2. Students will be able to identify the ore minerals in hand specimens and under the microscope							
Month	Lectures From: To:		No. of lectures allotted	Topic, Subtopic to be covered	ICT Tools	Reference books	
JUNE/JULY	22/06/2026	27/6/2026	03	Introduction to this paper and syllabus discussion	PPT	Economic Mineral Deposits by Alan Bateman	
	29/6/2026	04/7/2026	03	Ore Minerals	Powerpoint Presentation		
				Gangue Minerals		Economic Mineral Deposits by Alan Bateman	
				Epigenetic deposits			
	6/7/2026	11/7/2026	3	Tenore of Ore	Powerpoint presentation		
				Determination of metal content			
				Processes of formation of ores			

JULY/AUGUST	13/7/2026	18/7/2026	03	Magmatic Concentration Processes	PPT	Economic Mineral Deposits by Alan Bateman
	20/7/2026	25/7/2026	03	Contact Metasomatism Sublimation Process	PPT	
	27/7/2026	1/8/2026	03	Mechanical Concentration Process Residual Concentration Process	PPT	
	3/8/2026	08/8/2026	03	Lindgren Scheme and Batemen Scheme of Classification of Ore deposits	PPT	
	11/8/2026	16/8/2026	03	Assaying, Beneficiation, Prospecting, Resource & Reserve	PPT	
August/ September	10/8/2026	15/8/2026	02	Volcanic Exhalative deposits SEDEX, VMS	PPT	

	17/08/2026	22/8/2026	03	Contact metomorphism process Oxidation and supergene enrichment	PPT	
	24/8/2026	29/08/2026	03	Hydrothermal process Types of Hydrothermal processes	PPT	
September	31/08/2026	05/09/2026	03	Ore deposits in space & time Metallogenic Epochs	PPT	
September	7/09/2026	12/09/2026	03	Ore deposits and its relation to plate tectonics	PPT	Economic Mineral Deposits by Alan Bateman
October	21/09/2026	26/09/2026	03	Geology, of occurrence, distribution and origin of Iron, Manganese & Aluminium	PPT	Economic Mineral Deposits by Alan Bateman

October	28/09/2026	03/10/2026	03	Geology, of occurrence, distribution and origin of Chromium, Cu-Pb-Zn, Coal and Petroleum	PPT	Economic Mineral Deposits by Alan Bateman
October	5/10/2026	14/10/2026	04	Geology, of occurrence, distribution and origin of Diamond, Baryte, Bauxite. Radioactive Minerals. Industrial Minerals: Refractory, Abrasives, Cement, Fertilizer, Electrical and Electronics.	PPT	
COMPONENT		MAXIMUM MARKS				
ISA I		07.5				
ISA II		7.5				
ISA III		7.5				
PRACTICAL		25				
SEMESTER END EXAM		60				
TOTAL		100				