

## Semester Lecture Plan

**Name of the college: Government College of Arts, Science & Commerce, Sanquelim, Goa-India**

**GOVERNMENT COLLEGE OF ARTS, SCIENCE**

**Name of Faculty:** Ashita N. Salgaokar

**Subject:** Geology

**Paper code:** GED-102, Economic Geology

**Program/Course:** TY B.Sc.

**Division:**

**Academic year:** 2024 - 2025

**Semester:** V

**Total Lectures:** 20

**Course Objectives:**

**This course aims in helping the students:**

- 1. To understand the role of geologist in mining industry**
- 2. To understand exploration for minerals, mine planning, and ore beneficiation.**

**Course Learning Outcome:**

**Students will be able to understand**

- 1. Student will be able to carry out exploration and sampling for economic minerals.**
- 2. Student will be able to estimate reserves and prepare mine plans.**

Month	From:	Lectures To:	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
	August 20, 2024	August 24, 2024		Oxidation and supergene enrichment.	Diagrammatically describing oxidation and supergene enrichment.	Blackboard	
				Oxidation and supergene enrichment.		blackboard	

	August 26, 2024	August 31, 2024		contact metasomatic (skarn),	
				contact metasomatic (skarn),	Diagrammatically describing skarns
	September 02, 2024	September 05, 2024		hydrothermal	
				hydrothermal	
	September 06 2024	September 12, 2024		Holiday	
	September 13, 2024	September 14, 2024		hydrothermal	Different types of cavity fillings.
	September 16, 2024	September 21, 2024		Geology, mode of occurrence, distribution and origin of the following ore/mineral deposits in India: iron,	
				manganese, aluminum, chromium, copper, lead-zinc, gold, coal and petroleum	

				deposits.			
				Geology, mode of occurrence, distribution and origin of the following ore/mineral deposits in India: iron,			
	September 23, 2024	September 28, 2024		manganese, aluminium, chromium, copper, lead-zinc, gold, coal and petroleum deposits.			Jensen M.L. and Bateman A.M. Economic Mineral Deposits John Wiley and Sons 2. Park C.F. and MacDiarmid R. A. Ore Deposits, Freeman and Co.
	September 30, 2024	October 05, 2024		Geology, mode of occurrence, distribution and origin of the following ore/mineral deposits in India: iron,			
				manganese, aluminum, chromium, copper, lead-zinc, gold, coal and petroleum deposits.			
	October 07,	October 12, 2024		Geology, mode of			

	2024		occurrence, distribution and origin of the following ore/mineral deposits in India: iron,		
			Industrial Minerals: Iron & steel, Cement, Ceramics, Fertilizers,		
			Abrasives, Refractories, Atomic energy		
	October 14, 2024	October 19, 2024	Industrial Minerals: Iron & steel, Cement, Ceramics, Fertilizers,		Jensen M.L. and Bateman A.M. Economic Mineral Deposits John Wiley and Sons 2. Park C.F. and MacDiarmid R. A. Ore Deposits, Freeman and Co.
			revision		
			revision		

## Practical Plan

<b>Name of the college:</b> Government College of Arts, Science & Commerce, Sanquelim				
<b>Name of Faculty:</b> Ms. Ashita Salgaokar		<b>Subject:</b> Geology		
<b>Paper code:</b> GED 102		<b>Program:</b> TY BSc		<b>Division:</b>
<b>Academic year:</b> 2024 - 2025		<b>Semester:</b> I		<b>Total Practicals/Labs:</b>
<b>Credits:</b> 1				
<b>Course Objectives:</b> This course aims in helping the students: 1. To understand the role of geologist in mining industry 2. To understand exploration for minerals, mine planning, and ore beneficiation.				
<b>Course Outcome:</b> Students will be able to understand 1. Student will be able to carry out exploration and sampling for economic minerals. 2. Student will be able to estimate reserves and prepare mine plans.				
<b>Student Learning Outcome:</b>				
<b>Month</b>	<b>Practicals/ Labs Scheduled Date</b>	<b>No. of Practicals/Labs planned</b>	<b>List of Experiments</b>	<b>Reference books</b>

August	22-8-24	1	Structural Map
	29-8-24	1	Structural Map
September	5-9-24	1	Structural Map
	12-9-24		Structural Map
	19-9-24		Revision
	26-9-24		
October	3-10-24	1	Revision
	10-10-24	1	
	17-10-24	1	