## **Semester Lecture Plan**

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

Name of Faculty: Ms. Ashita Salgaokar Subject: Geology

Academic year: 2024 - 2025 Semester: III Total Lectures: 17

## **Course Objectives:**

1. This course will provide knowledge on mainly the optical properties of minerals and their identification

2. It will also provide the general description and distinction of silicate group of minerals.

## **Course Learning Outcome:**

At the end of the course, the student will be able to:

- 1. Explain the processes of weathering, erosion, transportation and deposition by various agents. CL3
- 2. Interpret various landforms associated with work of wind and groundwater. CL3
- 3. Identify various landforms formed by action of rivers, glaciers and oceans and seas. CL3
- 4. Solve problems related to fluvial geomorphology. CL3

Month	Lect From:	tures To:	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
A 4	20/8/24	24/8/24	2	Geological work of rivers: Drainage Basin and River System, Drainage Patterns.	Assignment on all the features formed by	Projector	i. Earth An Introduction to Physical Geology by Edward J.
August	26/8/24	31/8/24	2	<ul><li>i. Geological work of rivers: Erosion by rivers, erosional</li></ul>	different agents (i;e rivers, seas, ocean, glaciers)	Projector	Tarbuck Frederick K. Lutgens Dennis G. Tasa.

					Features -
					Steep Valleys,
					Gorges,
					Potholes,
					Waterfall,
					Meander, Ox
					Bow Lake,
					Hogbacks,
					Cuestas
				ii.	Depositional
					Landforms by
					River;
					Floodplains,
					Deltas,
					Alluvial Fans.
				i.	Geological
					work of ocean
September	2/9/24	7/9/24			and seas:
					Waves and
			1		Currents
					gical work of
					and seas:
					on and the
	09/9/24	14/9/24			es - Sea-cliffs,
					cut platform,
				sea-ar	·
			1		ives, sea-stacks.
					gical work of the
					and seas:
	16/0/04	21/0/24		-	ition and the
	16/9/24	21/9/24			es- lagoon,
					olo, spits, barrier
					, beaches, dunes,
			2	bars, a	
	23/9/24	28/9/24			gical work of
			2	Glacie	ers

	ii.
Projector	
Projector	
Projector	
Projector	
	I

Earth

Portrait of a

Planet by Stephen Marshak.

October	1/10/24	5/10/24	2	Geological work of Glaciers: Erosional Features of Glaciers: Valley glacier - U- shaped Valleys, Cirques, Fjords. Erosional Striations, Drumlins, Erratics.	Projector	
	7/10/24	12/10/24	2	Depositional Features of Glaciers - Glacial Drift; Till and Stratified Drift, Moraines	Projector	
	14/10/24	19/10/24	2	Revision	Projector	
	21/10/24	22/10/24	1	Revision		

## **Practical Plan**

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Name of	the college: G	overnment College	e of Arts, Science & Commerce, Sanquelim		
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Name of	Faculty: Ms. A	Ashita Salgaokar	Subject: Geology		
Paper co	de: GEO 211		Program: SY BSc	Div	vision:
				To	
					acticals/Labs
Academi	c year: 2024 -	2025	Semester: III	07	
	•				
Credits: 3	L				
	·	·	·		
	Objectives:				
		•	oing the Earth's surface by natural agencies. CL2		
2. Descri	be various ero	sional and deposit	ional landforms. CL2		<u> </u>
Course O					
•	The second secon		rosion, transportation and deposition by various	agents. CL3	
•			with work of wind and groundwater. CL3		
	•	•	action of rivers, glaciers and oceans and seas. CL3		
4. Solve	problems rela	ted to fluvial geom	orpnology. CL3		
Student	Loorning				
Outcome	_				
Outcome	<b>:</b> .				
Manth	Duo eticala /	No. of	List of Evacuiments	Reference bool	lea .
Month	Practicals/ Labs	Practicals/Labs	List of Experiments	Keterence bool	KS
	Labs	planned			

21-8-24 28-8-24 1-9-24 18-9-24	1 1 1 1	Basin morphometry Basin morphometry Drawing long and cross profile of rivers Drawing long and cross profile of rivers Identify and interpret the formation of landforms using images	Carlson, D.H., Plummer, C.C., McGeary, D. (2008). Physical
1-9-24 18-9-24	1	Drawing long and cross profile of rivers  Drawing long and cross profile of rivers  Identify and interpret the formation of	
18-9-24	1	Drawing long and cross profile of rivers  Identify and interpret the formation of	
		Identify and interpret the formation of	
25-9-24	1		
			Geology: Earth revealed. Higher
9-10-24	1	Identify and interpret the formation of landforms using images	Education. Online Resources
16-10-24	1	Revision	
			0-24 1 landforms using images