Semester Lecture Plan

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

Name of Faculty: Shritesh Mhapsekar Subject: Geology

Paper code: GEO-321 Hydrogeology Program/Course: SY B.Sc. Division:

Academic year: 2025- 2026 Semester: III Total Lectures: 12

Course Objectives:

1. Describe the occurrence and movement of freshwater on Earth.CL2

2. Illustrate the occurrence of groundwater and its flow. CL2

3. Discuss water quality parameters and standards. CL2

Course Learning Outcome:

- 1. Measure the various components of the hydrological cycle. CL3
- 2. Recognize types of aquifers and infer groundwater flow direction. CL3
- 3. Prepare and interpret stream hydrographs. CL5
- 4. Assess groundwater quality. CL5

Month	Lect From:	tures To:	No. of lecture s allotted	Topic, Subtopic to be covered	Learning outcome	ICT Tools	Reference books
July 2025	June 30, 2025	July 06, 2025	2	Introduction			Davis, S.N. and De Weist, R.J.M. (1966).

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July 07 2025 to	•	2	Subsurface water and groundwater		Hydrogeology , John Wiley & Sons Inc., N.Y. 2. Fetter, C.W. (2001). Applied Hydrogeology , Prentice Hall
July 14 2025 to		2	Rock properties affecting groundwater: porosity, permeability and hydraulic conductivity; vertical distribution of groundwater, saturated and unsaturated zones.		
July 21 2025 to	· ·	2	Types of geologic formations: Aquifer, aquitard, aquiclude, aquifuge, types of aquifers: unconfined, confined,		Inc., N.J., U.S.A.
July 28 2025 to		2	Types of geologic formations: Aquifer, aquitard, aquiclude, aquifuge, types of aquifers: unconfined, confined,		
August 2025	04, August 10, 2025	2	Types of geologic formations: Aquifer, aquitard, aquiclude, aquifuge, types of aquifers: unconfined, confined,	,	

*Note: Data filled in the above form is sample data.