

**Karnatak University's  
Karnatak Science College, Dharwad  
B.A / B.Sc / (Basic / Hons) Geography  
Semester – I (DSCC-2024-25 onwards)**

**Title of the Course: GEOG. T 1.1: Principles of Geomorphology (Revised NEP)**

**B.Sc- I Semester (031GEO011)**

**B.A-I Semester (011GEO011)**

Class		Unit	Sub Unit	Content	Hrs
B.Sc	B.A				
<b>MLU</b>	<b>SSM</b>	<b>I</b>		<b>Introduction of Geomorphology</b>	<b>14</b>
			1	Introduction to Geography: Physical and Human Geography	
			2	Introduction to Geomorphology: Meaning, Nature, Development and Scope. Principles of Geomorphology and Geological Time Scale.	
			3	Distribution of Continents and Oceans.	
<b>VBS</b>	<b>VBS</b>	<b>2</b>		<b>Systems and Cycles of the solid Earth:</b>	<b>14</b>
			4	Internal Structure of the Earth, Alfred Wegener's Continental Drift.	
			5	Theory of Isostasy: Views of Pratt and Airy Convectional Current Theory and concept of Sea floor Spreading.	
			6	Theory of Plate tectonics: Plate boundary, Subduction. Case studies: Volcano, Earthquake; Reporting of latest incidents.	
<b>KMH</b>	<b>SST</b>	<b>3</b>		<b>The Dynamics of Earth</b>	<b>14</b>
			7	Eart's Movements: Endogenetic and Exogenetics forces, Sudden and Diastrophic movements-Epeirogenetic and Orogenetic movements-process of folding and faulting.	
			8	Vulcanicity and Earthquake Rocks: Characteristics, Types, Importances and Rock cycle, Weathering: Meaning, Types and controlling factors.	
			9	Mass Movement: Meaning, Controlling factors, Types-Landslides, Rock-Falls.	
<b>KMH</b>	<b>KMH</b>	<b>4</b>		<b>Evolution of Landforms:</b>	<b>14</b>
			10	Landforms: Meaning, Types and factors controlling landforms development, Slope development: Concept and Types, Concept of Cycle of erosion- W.M.Devis and W. Penk.	
			11	Agents of denudation: River, Drinage patterns, Ground water, Sea Waves, Wind and Glaciers and resultant Landforms.	
			12	Application of Geomorphology: In India and Karnataka (Regional Planning, Urban Planning and Transportation, Mining, Hazard Management, Agriculture and Environmental Management)	

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Semester – I (DSCC)**

**Title of the Course: GEOG. Pr 1.1: Morphological Analysis**

**B.Sc-I Semester (031GEO012)**

**B.A-I Semester**

**(011GEO012)**

B.Sc	B.A	Unit	Exercise	Content	Hrs
<b>LTN DSN</b>	<b>LTN SSM VBS GNK</b>	<b>I</b>		<b>Identification of Rocks and Minerals:</b>	<b>14</b>
			1	Mineral Samples: Iron ore, Bauxite, ore and Manganese Rock Samples: Granite, Basalt, Lime stones, Sand stone, Quartzite and Marble.	
			2	Extraction and Interpretation of Geomorphic information from Topographical Maps.	
			3	Preparation of contour map from toposheets, construction of Relief profiles-serial, superimposed, projected and composite.	
		<b>2</b>		<b>Slope analysis:</b>	
			4	Slope Maps (Wentworth Method) Slope (Isotan and isosin) and aspect maps and Hypsometric curve and integral.	
			5	Drainage Morphometry: Delination of watershed, stream ordering Morphometric analysis: Mean Stream length, Drainage density and drainage frequency.	