

THE COURSE STRUCTURE & SYLLABUS OF B.A. /B.Sc. GEOGRAPHY

I and II Semester

Academic Year 2024-25 Onwards

PROGRAM STRUCTURE

Syllabus and Credits Structure under Choice Based Credit System [CBCS] General Degree for the Three Years **B.Sc. GEOGRAPHY** Undergraduate Programme with effect from 2024-25.

			S	EMES'	TER-I	[
Category	Course code	Title of the Paper	Marks			Teaching hours/ week			Credits	Dur atio	Teaching Departmen
			ΙΑ	SEE	Total	L	Τ	Р	-	n of Exa m	t
 L1		Language 1	20	80	100	4	_	_	3	(Hrs) 3	-
L2		Language 2	20	80	100		-	-	3	3	_
Major	2B1GEOM01T	Principles of Geomorphology	20	80	100	4	-	-	3	3	GEOGRAPHY
	2B1GEOM01L	Interpretation of SOI Topo sheet	10	40	50	-	-	4	2	3	GEOGRAPHY
Major		Major Subject 2	20	80	100	4	-	-	3	3	
		Practical	10	40	50	-	-	4	2	3	
Major		Major Subject 3	20	80	100	4	-	-	3	3	
		Practical	10	40	50	-	-	4	2	3	
Common	2S1XXXC01T	Constitutiona l Values	10	40	50	2	-	-	2	2	Constitutional Values: Political Science
	2S1XXXC02T	Environmental studies									Environmental Studies,: Chemistry/ Geography / Botany
	1	1	Total I	Marks	700		nester edits	1	23		1

First Semester B.Sc. GEOGRAPHY

					SEMI	EST	ER-	II			
Category	Course code	Title of the	Marks			Teaching hours/ week			Credits	Duration of exams	Teaching Department
		Paper	IA	SE E	Total			Р		(Hrs)	
L3		Language 3	20	80	100	4	-	-	3	3	-
L4		Language 4	20	80	100	4	-	-	3	3	-
Major	2B2GEOM02T	Fundamentals of Climatology	20	80	100	4	-	-	3	3	GEOGRAPHY
	2B2GEOM02L	Interpretation of IMD Weather Maps	10	40	50	-	-	4	2	3	GEOGRAPHY
Major		Major Subject 2	20	80	100	4	-	-	3	3	
		Practical	10	40	50	-	-	4	2	3	
Major		Major Subject 3	20	80	100	4	-	-	3	3	
		Practical	10	40	50	-	-	4	2	3	
Common	2S1XXXC01T	Constitutional Values	10	40	50	2	-	-	2	2	Constitutional Values: Political Science
	2S1XXXC02T	Environmental Studies									Environmental Studies: Chemistry/Geography / Botany
	1	То	tal N	larks	700		mes 'redi		23		1

Second Semester B.Sc. GEOGRAPHY

Year	Ι					03	
Sem.	1	Paper Title : PRIN	ICIPLES OF GEOMORPHOLOGY		Hours 52		
Internal As	ssessm	nent Marks: 20	External Assessment Marks: 80	Duratior Exam: 0			
of geomor in the ear	pholo th's n t of C	by about certain fund naterials and the proc	rse is to familiarize the students with the r amental concepts, focusing on the unity o resses with or without an element of time mented into the internal and external proce	f Geomor ie. The pr	rphology cocess of		
Unit No.		Course content :			Hour	s	
Unit]	[eomorphology : Meaning, definition, n and Modern Techniques in Geomorph		10 Hot	ırs	
Unit I	I	Earth's Interior- Internal structure of the Earth- Earth Movements- Orogenic movements and Epeirogenic movements- Tectonic Features-Faults and Folds, Types, formation processes, and related landforms.				ırs	
Unit II	Π	Theories:Wegener's Theory of Continental Drift. Plate Tectonic Theory. Weathering and its types. Rocks- Origin and Types, distribution and economic significance. Rock Cycle			15 Hot	ırs	
Unit I	V	processes shaping effects, distributio causes, effects, and Weathering- Proce Mass Wasting: effects, and mitiga Agents of denudat Rivers- Fluvial pro Wind- Aeolian pro Glaciers- Glacial p Underground Wa Sea Waves- Coasta	tion: Meaning and Process- ocesses, landforms, and drainage pattern ocesses, desert landforms. processes and its landforms. ter- Topography and landforms al processes and landforms, Human Im- Processes-Anthropogenic activities and	Causes, -Types, ion and Causes, ns. pact on	15 Hot	Irs	

Year	Ι	Course Code: 2B1G			Credits	02
Sem.	1	Course Title:INTERPRETATION OF SOI TOPO SHEETSHereit				
Internal A	ssessn	nent Marks: 10	External Assessment Marks: 40	Duratio Exam: (<u> </u>
Unit No.	,	Course content			Hour	`S
Unit I		8	es of Maps: Importance of SOI Top n of color conventional symbols of top		15 Ho	urs
Unit II		figures and a six-fig Contour diagram ridge/water divide, Symbols: triangula relative height/ dept using the scale. Locational Points: Identification of	$\hat{\mathbf{s}}$: steep slope, gentle slope, hill, v	valley, , and g area pattern and	15 Ho	urs
Unit III		Interpretation of S	SOI Topo sheets with reference t lief b) Drainage system c) Natural Ve	-	10 Ho	urs
Unit IV Interpretation of SOI Topo sheets with reference to Cultural Features: a) Settlement and its patterns b) Transportation and Communication c) Agriculture and Irrigation Viva				urs		

Recommended Learning Resources

Reference:

- 1. Savindra Singh: Physical Geography
- 2. Strahler & Strahler: Physical Geography
- 3. R. N. Tikka: Physical Geography
- 4. Majid Hussain: Physical Geography
- 5. Das Gupta & Kapoor: Physical Geography
- 6. Triwartha. G. T: An Introduction to Climate
- 7. Savindra Singh: Climatology
- 8. Prof. S. S. Nanjannavar (2019): Physical Geography (Kannada Version)
- 9. Dr. Ranganath (2020): Physical Geography (Kannada Version)
- 2. Dr. S.S. Hanagaragi (2007): Climatology and Biogeography (Kannada Version)

Year	Ι	Course Code: : 21	2GEOM02T INDAMENTALS OF CLIMATOLOGY		Credits	03
Sem.	II	raper liue : F	INDAMENTALS OF CLIMATOLOGY		Hours	52
Internal As	ssessm	nent Marks: 20	External Assessment Marks: 80	Duration Exam: 0	- • -	

Objectives: This course aims to provide an understanding of Climate and weather phenomena, the dynamics of global climate, and the interaction between living organisms with climate and physical environment.

Unit No.	Course content :	Hours
Unit I	Introduction to Climatology : Definition, nature, scope and significance. Weather and. Climate- and its interrelationships. Elements of Weather and Climate-Temperature, humidity, precipitation, wind, pressure. Controlling Factors-Latitude, altitude, distance from the sea, ocean currents, topography.	10 Hours
Unit II	Structure and Composition of the Atmosphere: Structure of the atmosphere. Composition of atmosphere and its significance. Atmospheric Temperature-Heat Balance (Budget). Factors Influencing Temperature Distribution- Latitude, altitude, land- water contrast, ocean currents, and seasonal variations. Temperature Distribution- Vertical, horizontal and inversion of temperature.	12 Hours
Unit III	Atmospheric Pressure and Winds: Atmospheric Pressure - Measurement of Pressure- Barometers and other instruments. Global Pressure Belts. Winds and its types Planetary Winds, Trade winds, westerlies, and polar easterlies. Seasonal Winds- Monsoons, mechanism and impact. Local Winds-Land and sea breezes, mountain and valley breezes. Jet Streams-Characteristics, formation, and its effects. Air Masses: Definition, nature, characteristics of air masses. Source Regions and Classification. Fronts and its types.	15 Hours
Unit IV	Atmospheric Disturbances: Cyclones and Anticyclones- Global patterns and regional variations. Tropical Cyclones-Formation, characteristics and effects. Temperate Cyclones-Formation and its effects. Climate Change and CyclonesPrecipitation: Hydrological Cycle- Processes and significance. Humidity- Measurement and its types. Factors Influencing Humidity. Clouds- Formation and its types. Process of Condensation Types of rainfall Convectional, Orographic and Cyclonic rainfall, global distribution of rainfall patterns and influencing factors	15 Hours

Year	Ι	Course Code: 2B2G	EOM02L		Credits	02
Sem.	Π	II Course Title: INTERPRETATION OF IMD WEATHER MAPS				
Internal As	ssessn	nent Marks: 10		Duratior Exam: 0		
Unit No.		Course content			Hour	s
Unit I		of IMD weather ma various sectors inc management. Types (ther Maps: Meaning, Understanding the signing of meteorological analysis and forecast cluding agriculture, transportation, and of synoptic weather maps, satellite imagery, ar ian Meteorological Department and Signific	ing for disaster nd radar	15 Hot	urs
Unit II		principles and usage of meteorological observ (Fahrenheit, Centigra	s and Measurement : Detailed study of the w of common weather instruments used in vations. In-depth understanding of thermomete de, Six's maximum and minimum), wet and d ial and aneroid barometers, rain gauge, and wi	ers ry bulb	15 Hot	urs
Unit III		reports and forec components. Gen	er Report: Weather signs and symbols, w asts, Station model- Comprehensive eral Information of IMD Weather the format, content, and updates of the ort by IMD	of the Maps-	10 Hot	urs
Unit IV		Seasonal Weather Pa (One map for each se	l Variability- Understanding spatial variations		10 Hot	urs

Recommended Learning Resources
Reference:
R. L. Singh: Elements of Practical Geography
Gopal Singh: Practical Geography
Dr. Ranganath: Practical Geography (Kannada Version)
Singh and Kanoj: Practical Geography
R. P. Misra and Ramesh: Fundamental of Cartography
M. F. Karennavar & S. S. Nanjannavar: Practical Geography
M.F. Karennavar & S. S. Nanjannavar: Practical Geography
(Kannada Version)
Pijushkanti Saha & Partha Basu: Advanced Practical Geography
https://mausam.imd.gov.in/
Prof. S. S. Nanjannavar (2021): Practical Geography (Kannada Version)