

Choice Based Credit System (CBCS): Syllabus in Geography

**Semester- 2
(Marks-275, Credit- 20)**

SEMESTER	COURSE OPTED	COURSE NAME	CREDIT	MARKS		
				IA	ESE	TOTAL
II	Ability Enhancement: compulsory course - 2	Communicative English/ MIL	2	---	50	50
	DISCIPLINE 1 (Geography)	Core Course (CC – 1B) Climatology, Soil and Biogeography	4	15	40	75
		Practical Surveying and Levelling	2		20	
	DISCIPLINE 2 (other subject)	Core Course (CC – 2B) As to be offered by other department	6	15	60	75
	(Hindi/ MIL)	Core Language (L2-1)	6	15	60	75
	Total			20		275

❖ *Core Course 1B: Theory- Climatology, Soil and Biogeography (Credit 4)*

S.N.	Topic	Teacher
1	Elements of weather and climate. Thermal and chemical composition and layering of the atmosphere.	BD
2	Horizontal and vertical distribution of temperature	BD
3	Forms of precipitation and types of rainfall	RH
4	Tropical and Temperate Cyclones, Climatic Classification (Koppen)	RH
5	Definition of soil. Physical and chemical properties of soil (soil texture, colour and pH)	RD
6	Soil forming factors. Soil formation (Podzol and Laterite)	RD
7	Definition of Biosphere and Biogeography. Meaning of Ecology, Ecosystem. Environment, Ecotone, Communities, Habitats and Biotopes.	AB
8	Biomes: Rainforest and Temperate Grassland.	AB



BOOKS

Barry R. G. and Carleton A. M., 2001: Synoptic and Dynamic Climatology, Routledge, UK. Barry R. G. and Chorley R. J., 1998: Atmosphere, Weather and Climate, Routledge, New York. Critchfield H. J., 1987: General Climatology, Prentice-Hall of India, New Delhi
Lutgens F. K., Tarbuck E. J. and Tasa D., 2009: The Atmosphere: An Introduction to Meteorology, Prentice-Hall, Englewood Cliffs, New Jersey.
Oliver J. E. and Hidore J. J., 2002: Climatology: An Atmospheric Science, Pearson

❖ *Core Course 1B: Practical- Surveying and Levelling (Credit 2)*

S.N.	Topic	Teacher
1	Definition and classification of surveying	RH
2	Plane table survey by radiation method.	AB
3	Open and close traversing by Prismatic Compass	AB
4	Drawing of longitudinal profile by Dumpy level	RD, BD
	*A Project File, comprising one exercise each is to be submitted	