

# GEOGRAPHY DEPARTMENT

## Course Structure

### COURSE STRUCTURE-CCF, 2022

#### Discipline Specific Course

Semester	Major Discipline Specific Course(MD-CC-Major)	Minor	IDC	AEC	SEC	CVAC	Summer Internship	Dissertation/ Research Work	Total Credits
	25Paperx4Credits= 100 Credits	4Paperx4Credits= 16 Credits	3Paper x 3Credits= 09 Credits	4Paperx2Credits= 08Credits	3Paperx4Credits= 12 Credits	4Paperx2Credits= 08Credits	1Paperx3Credits= 03Credits	(1X4=4) + (1X8=8)=12 Credits	
1	GEOG-H-CC01-1TH+P	GEOG-H-CC01-1TH+P (1st minor)	GEOG-IDC01-TH+P	1x2=2 From central pool	GEOGH-SEC01-1TH	2x2= 4 From central pool			21
	Physical Geography	Physical Geography	Geomatics & Spatial Analysis		Methods in Geography				
2	GEOG-MD-CC02-2TH+P	GEOG-MD-CC01-3TH+P	GEOG-IDC01-TH+P	1x2=2 From central pool	1x2=2 From central pool	2x2= 4 From central pool			21
	Human geography	Physical Geography	Geomatics & Spatial Analysis						

**COURSE STRUCTURE-MDC**

Semester	Major Discipline Specific Course(MD-CC-Major)	Minor	IDC	AEC	SEC	CVAC	Summer Internship	Total Credit
	8Paperx4Credits= 32 Credits	6Paperx4 Credits= 24 Credits	3Paperx3Credits= 09 Credits	4Paperx2Credits= 08Credits	3Paperx4Credits= 12 Credits	4Paperx2Credits= 08Credits	1Paperx3Credits= 03Credits	
1	GEOG-MD-CC01-1TH+  P		GEOG-IDC01-TH+P	1x2=2  From central pool	GEOG-MD-SEC01-1TH	2x2=4  From central pool		21
	Physical Geography		Geomatics & Spatial Analysis		Methods in Geography			
2	GEOG-MD-CC02-2TH+  P		GEOG-IDC01-TH+P	1x2=2  From central pool	GEOG-MD-SEC01-1TH	2x2=4  From central pool	Summer internship to be completed by students exiting after sem2	21
	Human geography		Geomatics & Spatial Analysis		Methods in Geography			

## **SEMESTER -1/3 (FOR H&M)**

### **GEOG-H-CC01-1TH-PHYSICAL GEOGRAPHY:- 75 MARKS:**

#### **Unit :1: Cartography:**

**CO1.** Understand and prepare different kinds of maps, Scale, and Projection.

#### **Unit :2:Geotectonics:**

**CO1.** Gain knowledge about the earth's interior.

#### **Unit III: Geomorphology :**

**CO1:** Understand the processes of erosion,

**CO2.** Acquire knowledge about types of weathering

**CO3.** Understand the processes of fluvial erosion, deposition and resulting landforms.

#### **Unit IV: Climatology:**

**CO1.** Gain knowledge about nature, composition, and layering of the atmosphere.

**CO2.** Acquire knowledge about circulation in the atmosphere: Planetary winds, jet streams, and index cycle.

#### **Unit V Soil Geography:**

**CO1.** They can know the soil formation processes, development and the factors of soil formation

**CO2.** Know about the evolution of an ideal soil profile

#### **Unit VI: Biogeography:**

**CO1.** Acquire knowledge about plant adaptation and distribution in relation to water availability.

#### **Unit VII: Geography of Hazards:**

**CO1.** Understand the nature and classification of hazards and disasters in the Indian context.

### **PRACTICAL**

**CO1.** Gain knowledge about topographical maps and apply this knowledge on the ground surface.

**CO2.** Develop the skills of identification of river basins and their features in the real world.

**CO2.** Understand and prepare different kinds of scales.

**GEOG-H-CC02/MD-CC02-2/4-TH-HUMAN GEOGRAPHY - 75 MARKS:  
SEMESTERS 2/4 (FOR H & MD)**

**Unit 1: Scope and Approaches**

**CO1.** Gain knowledge about major themes of human geography.

**CO2.** Develop an idea about human geography schools of thought.(Resource, locational, landscape, environment)

**Unit II: Social Geography**

**CO1.** Gain knowledge about the evolution of human societies from Hunting and food gathering, pastoral nomadism, and subsistence farming to industrial society.

**CO2.** Develop the concept of human adaptation to the environment of the Chenchu, Toda, and Gond tribes.

**CO3.** Acquire knowledge about the evolution and characteristics of post-industrial urban societies.

**III: Population Geography**

**CO1.** Population Geography: Nature, scope and content

**CO2.** Build an idea about population growth and distribution of population in India.

**IV: Settlement Geography**

**CO1.** Students can learn about morphology, Characteristics of settlements

**CO2.** They can distinguish between rural and urban settlements

**CO3.** Students can learn about sites, situations, types and patterns of rural settlements.

**Unit V: Urban Geography**

**CO1.** They can class classification of urban settlements after the Census of India.

**PRACTICAL**

**CO1.** Gain knowledge about the Growth rate of the population by comparing two decadal datasets.

**CO2.** They can represent and interpret of population density of Indian states by choropleth

**CO3.** Students can Construct proportional squares depicting the number of

houses.

**~~GEOG-H-SEC 01/MD-SEC01-1/2/3-TH-METHODS-GEOGRAPHY-100~~**  
**MARKS/4 CREDITS**

**SEMESTERS 1(FOR H) & 1/2/3 (FOR MD)**

**Unit :1 Field Data Collection and Compilation**

**CO1.** To know how to conduct pilot survey based n primary data

**CO2.** Build an idea about the preparation of questionnaire and interview schedule.

**CO3.**They can understand sampling types and strategy based on diverse research problems.

**CO4.**They can represent data compilation into master table.

**CO5.** Acquire knowledge about statistical analysis of data: measures of central tendency and dispersion.

**Unit II: Methods in Physical Geography**

**CO1.** To know how to use of minor surveying instruments: Brunton compass, distometer, mobile phone levelling.

**CO2.** They can understand textural analysis of grains using sieves.

**CO3.** Identify mapping areal and linear extents of riverbank and coastline shift from Survey of India.

**CO4.** Acquire knowledge about the flooded areas from satellite images and digital elevation.

**Unit III: Methods in Human Geography**

**CO1.**Analysing the process of dominant and distinctive functions.

**CO2.** Understanding how to prepare ternary diagram showing occupational patterns.

**CO3.**To know the Preparation of accessibility map.

**CO2.** How to prepare flowcharts using transportation data.

**GEO-H-IDC01-1/2/3-TH - GEOMATICS AND SPATIAL ANALYSIS - 75  
MARKS / 3 CREDITS**

**Unit 1: Cartography**

**CO1.** Having the concept and applications of scales, projections. Components and classification of maps.

**CO2.** To know the bearing: Magnetic and true, whole-circle and reduced.

**CO3.** Importance of geoid and spheroid with special reference to Everest and WGS84. Conversion of angular distance to linear distance

**CO4.** Having the idea of map projections: Classification, properties and uses with special reference to simple conical projection and UTM.

**Unit II: Surveying**

**CO1.** Knowledge of basic concepts of surveying and survey equipment: Prismatic compass, dumpy level, and theodolite.

**CO2.** Gaining the concepts of surveying and survey equipment: Global Navigation Satellite System and total station.

**Unit III: Remote Sensing and Geographical Information System**

**CO1.** To know the Principles of Remote Sensing (RS): Types of RS satellites and sensors.

**CO2.** They can understand sensor resolutions and their applications with reference to IRS and Landsat missions.

**CO3.** They can represent GIS data structures and their types- Spatial and non-spatial, raster and vector.

**CO4.** Understand the Principles of preparing attribute tables, data manipulation, query, and overlay.

**PRACTICAL**  
**GEO-H-IDC01-1/2/3-P-GEOMATICS AND SPATIAL ANALYSIS LAB-25**  
**MARKS/1 CREDIT**

**CO1.** Students can Construct the simple conical projection with one standard parallel.

**CO2.** Acquire knowledge traverse survey using prismatic compass.

**CO3.** Develop the skills of Identification land use and land cover features from standard FCCs and preparation of inventories .

**CO4.** Identify the changes detection of riverbank or coastline shift from multi-dated maps and images.