Lesson Plan for Even Semester, 2020
M.Sc. 2nd Semester, Geography, Ajay Chauhan, Associate Professor in Geography

Months	Topics to be Covered- Paper- GEOG-201 Geomorphology	Other Activities
January, 2020	1. Introduction to geomorphology as a science: definition, nature, scope and recent developments. 2. Fundamental concepts: (i) Geological structure and landforms (ii) Uniformitarianism (iii) Multicycle and polygenetic evolution of landscape (iv) Frequency concept of geomorphic processes (v) Climatogenetic geomorphology	Assignments, Class Tests, Class Discussions, Topical Presentations, Debates, Quiz Contests, etc
February, 2020	3. Continental drift theory and its basic considerations; Plate tectonics-meaning and concept, margins and boundaries, plate motion and cycle; Tectonic activities along boundaries and distribution of plates. 4. Hill slope-definition and forms of slope, geomorphic processes and slope forms, slope evolution: down wearing, parallel retreat and slope replacement models.	
March, 2020	5. Weathering : Causes; types of weathering: physical, chemical and biological. 6. Mass movement, causes, classifications and types of mass movements- slow and rapid mass movements. 7. Geomorphic processes and resulting land forms: (i) Fluvial (ii) Glacial (iii) Aeolian (iv) Karst	
April, 2020	8. Applied geomorphology: Meaning and concept, role of geomorphology in environmental management of the following: (i) Accelerated erosion and sedimentation (ii) Construction of large dams (iii) Urban geomorphology	

Lesson Plan for Even Semester, 2020
M.Sc. 4th Semester, Geography, Ajay Chauhan, Associate Professor in Geography

Months	Topics to be Covered- Paper -GEOG- 405 (A) Fundamental of Geographical Information Systems (Theory)	Other Activities
January, 2020	1. GIS: concept, definition and development. 2. Hardware and software requirements for GIS environment	Assignments, Class Tests, Class Discussions, Topical Presentations, Debates, Quiz Contests, etc
February, 2020	3. Data for GIS : (i) Spatial data and their sources (ii) Non –spatial data and their sources; (iii) data structure: vector and raster 4. Data Base Management System; Sources of errors in GIS database.	
March, 2020	5. Map, scale and map projection: Need of projection, spherical co-ordinate system and properties. 6. Integration of Remote Sensing data into GIS and its application in resource mapping, urban management and real time mapping.	
April, 2020	7. Current issues in GIS.	

Lesson Plan for Even Semester, 2020
M.Sc. 4th Semester, Ajay Chauhan, Associate Professor in Geography

Months	Topics to be Covered- Paper- GEOG- 405 (B) Fundamental of Geographical Information Systems (Practical)	Other Activities
January, 2020	1. Georeferencing	Class Discussions , Topical Presentations,
February, 2020	2. Creation of Geo-data base and shape file. 3. On screen digitization/vectorisation of spatial data in the form of 3 layers: polygon, polyline and point	
March, 2020	4. Adding attributes to these layers and statistical calculations. 5. Displaying attribute data on map by various methods.	
April, 2020	6. Preparing layout and printing of theme map	