

FGM Government College, Adampur			
Lesson Plan of Year 2020-21			
Programme Name- MSc Geography 3rd sem.		Department- Geography	
		Course Name- Urban Geography (GEOG-303 (i))	
Teacher- Sonu			
Month	Week	Topic	Assignments/test
September	3rd	Introduction: About Syllabus, • Introduction: Urban Geography,	1st assignment
	4th	Nature & scope of urban Geography, • Concepts of urban Geography, • Origin and evolution of Towns World & India	
October	1st	Economic base of cities, • Its concept and employment ratio	
	2nd	Introduction: Functional classification of cities	
	3rd	Concepts of Urban Classification, • Scheme of classification	Class discussions& Test
	4th	Rural-Urban fringe, • Structural characteristics of Rural-Urban fringe	
November	1st	Development of Rural-urban fringe	
	2nd	Introduction: city and region	
	3rd	Concepts of influence and dominance	2nd Assignment
	4th	Methods of delineation	
December	1st	Urban morphology and land use structure	
	2nd	City core, commercial Areas	
	3rd	Industrial and residential areas	
	4th	Introduction: city structure models	
January	1st	Concentric zone model	2nd Assignment
	2nd	Sector theory	
	3rd	Multiple Nuclei theory	
	4th	Introduction: Central place, • Central place theory Christaller & losch	
Feburary	1st	Rank size rule, • Law of Primate city	2nd Assignment
	2nd	Social area analysis	
		Revisions till exams	

FGM Government College, Adampur

Lesson Plan of Year 2020-21

Programme Name- Msc Geography 1st sem.		Department- Geography	
		Course Name- Economic geography (GEOG-103)	
Teacher- Sonu			
Month	Week	Topic	Assignments/test
January	1st	Definition and nature, scope of economic geography	1st assignment
	2nd	Approaches of economic geography	
	3rd	relationship of economic geography with other social sciences	
	4th	base of classification; pattern and characteristics of developed and developing economies of the world	
February	1st	world production and distribution energy resources	Class discussions& Test
	2nd	world production and distribution mineral resources	
	3rd	network structure and economic activities	
	4th	impact of transport on economic activities	
March	1st	Edward Ullman spatial interaction model	2nd Assignment
	2nd	basic concepts of location problems	
	3rd	concepts of economic growth and development	
	4th	recent trends in pattern of international trade	
April	1st	emergence of new global economy	
	2nd	major regional trade blocks;	
	3rd	GATT, UNCTAD, WTO	
	4th	revision till exams	

FGM Government College, Adampur			
Lesson Plan of Year 2020-21			
Programme Name- MSc. Geography 4th sem.		Department- Geography	
		Course Name- Hydrology & Oceanography (GEOG-402)	
Teacher- Sonu			
Month	Week	Topic	Assignments/test
April	1st	Introduction: About Syllabus Introduction: About Hydrology Nature & scope of hydrology	1st assignment
	2nd	Historical development of hydrology Relationship of hydrology with other physical sciences Hydrological cycle Hydrological budget	
	3rd	Human impact on hydrological cycle Rainfall: frequency, intensity measurement • Accuracy and determination of average rainfall	
	4th	Source and measurement of stream flow• Hydrograph and its components• Analysis and factors affecting the hydrograph shape Methods of hydrograph separation Rainfall-runoff relationship	
may	1st	Major topographic features of ocean basin- Atlantic, pacific, Indian	Class discussions& Test, 2nd Assignment
	2nd	Classification and deposition of ocean deposits	
	3rd	Coral origin, types and condition for development, Ocean current origin, effects, Ocean temperature, Ocean salinity	
		Revision till exams	

FGM Government College, Adampur			
Lesson Plan of Year 2020-21			
Programme Name- BA Hons. Geography 4th sem.		Department- Geography	
		Course Name- Economic geography	
Teacher- Sonu			
Month	Week	Topic	Assignments/test
April	1st	Introduction: About Syllabus	1st assignment
	2nd	Introduction: About Economic Geography	
	3rd	Nature & scope of economic geog.	
	4th	Relationship of economic geog. with other social sciences	
may	1st	Economic activities classification And their impact on environment Type, basis and classification of world natural resources	Class discussions& Test
	2nd	Type, basis and classification of world natural resources	
	3rd	Conservation and utilization of resources	
	4th	Classification of world agricultural system Intensive subsistence agriculture, Mediterranean agriculture, Dairy farming, Plantation farming	
june	1st	Plantation farming, Coal : distribution and production, Petroleum: Distribution and production	2nd Assignment
	2nd	Classification of industries and basis of location	
		Revision till exams	

FGM Government College, Adampur			
Lesson Plan of Year 2020-21			
Programme Name- B.A.5th sem.		Department- Geography	
		Course Name- Economic Geography	
Teacher- Chanan Mal			
Month	Week	Topic	Assignments/test
September	3rd	Introduction, Definition	1st assignment
		Nature and Scope of economic geography	
October	4th		
	1st	approaches of economic geography	
	2nd	Relationship of economic geography with economics and other branches of social sciences	Class discussions& Test
	3rd	Main concept of economic geography; resources	
November	4th	Factor effecting location of economic activity with special reference to agriculture	
	1st	Von Thunen Theory	
	2nd	Factor effecting location of economic activity with special reference to Industry	2nd Assignment
	3rd	Webber Theory	
December	4th	Subsistence and commercial agriculture:- Rice, wheat	
	1st	Cotton, Sugarcane	
	2nd	tea, rubber and coffee	2nd Assignment
	3rd	Manufacturing: cotton textile	
January	4th	Iron and steel	
	1st	Concept of manufacturing regions Special economic zones and technology parks	
	2nd	World transportation: major trans- continental railways	2nd Assignment
	3rd	Sea routes Geo-economic factors in their development	
Feburary	4th	WTO and international trade,	
	1st	Patterns and trends	
	2nd	Major trade blocks: Effect of globalization on developing countries	Revisions till exams

FGM Government College, Adampur			
Lesson Plan of Year 2020-21			
Programme Name- B.A. 6th sem.		Department- Geography	
		Course Name- Introduction to Remote Sensing, GIS & Quantitative Methods	
Teacher- Chanan Mal			
Month	Week	Topic	Assignments/test
April	1st	Introduction to Aerial Photographs, their advantages & its type	1st assignment
	2nd	Elements of aerial Photo Interpretation Basic of Remote Sensing	
	3rd	Electromagnetic Spectrum & Sensors, Platform , Resolution Types, Development of Remote sensing Technology, purpose	
	4th	Advantages and software, Hardware requirements Application of GIS in Various Field of Geography	
May	1st	Measure of Central Tendency: Mean, Median & Mode	Class discussions& Test, 2nd Assignment
	2nd	Measure of Dispersion: Range & Quartile Deviation	
	3rd	Standard deviation, Coefficient of variation	
		Revision till exams	

FGM Government College, Adampur			
Lesson Plan of Year 2020-21			
Programme Name- B.A. Hons. Geo. 2nd sem.		Department- Geography	
		Course Name- Map Projection (Theory)	
Teacher- Chanan Mal			
Month	Week	Topic	Assignments/test
April	1st	Introduction of map projection : Definition Necessity, Properties, Classification, Importance of map projection	1st assignment
	2nd	Cylindrical Projection Construction and characteristics Application of projection:-Simple Cylindrical Projection	
	3rd	Cylindrical equal area Projection Mercator's	
	4th	Conical Projection Construction and characteristics Application of projection :- Simple conical projection with one standard parallel Simple conical projection with two standard parallel	
May	1st	Bonn's conical projection Polyconic Projection	
	2nd	Zenithal Projections : Construction and characteristics	
	3rd	Application of projection :- Polar Gnomonic Zenithal Projection	

	4th	Polar stereographic Zenithal Projection, Polar orthographic Zenithal Projection ,	Class discussions& Test
June	1st	Polar Zenithal Equidistant Projection, Polar Zenithal equal area Projection	2nd Assignment
	2nd	Construction , characteristics & application of projection:- Sinusoidal Projection Mollweide's Projection	
		Revision till exams	

FGM Government College, Adampur			
Lesson Plan of Year 2020-2021			
Department- Geography			
Programme Name- MSc Geography 1st sem.		Course Name- Climatology	
Teacher- Sandeep Kumar			
Month	Week	Topic	Assignments/test
JANUARY	1st	Definition of weather and climate; Climatology and Meteorology	1st assignment
	2nd	Origin, composition and structure of atmosphere	
	3rd	Solar radiation, heat budget and temperature distribution	
	4th	Atmospheric pressure and its distribution pattern	
Feburary	1st	General circulation and planetary winds,	Class discussions & Test
	2nd	Walker circulation- ENSO and La Nina, origin of monsoons and jet streams.	
	3rd	Atmospheric Moisture : humidity, evaporation, condensation	
	4th	Precipitation : Dynamics and types of precipitation	
March	1st	Stability and instability of atmosphere	
	2nd	air masses and fronts	
	3rd	Weather systems : Extra tropical	
	4th	tropical cyclones	
April	1st	Climatic classification: Bases of climatic classification by Köppen	2nd Assignment
	2nd	Trewartha and Thornthwaite.	
	3rd	Climatic change- Evidences and explanations	
	4th	Global warming and its impacts	
May	1st		
	2nd		
		Revisions till exams	

FGM Government College, Adampur			
Lesson Plan of Year 2020-21			
Department- Geography			
Programme Name- Msc Geography 3rd Sem.		Course Name- Geography & Ecosystem	
Teacher- Sandeep Kumar			
Month	Week	Topic	Assignments/test
JANUARY	1st	Concept of Ecosystem; Types, components	1st assignment
	2nd	function of ecosystem	
	3rd	Energy flow in ecosystem: food chain, food web, trophic levels	
	4th	ecological production and ecological pyramids.	
Feburary	1st	Biogeochemical cycles: Hydrological, carb	Class discussions& Test
	2nd	oxygen and nitrogen cycles	
	3rd	Tropical evergreen rain forest biome	
	4th	Savana biome Monsoon biome Temperate biome	
March	1st	Marine biome Ecosystem approach and its relevance in ge	
	2nd	Man-environment relationship: Classification of resources;	
	3rd	ecological imbalance with reference to soils	
	4th	forests and energy resources	
April	1st	Biodiversity and conservation: preservation and conservati	2nd Assignment
	2nd	management.	
	3rd	Biodiversity and conservation: preservation and conservati	
	4th	management.	
May	1st	Problems of pollution: concept of air, water, and noise pollution	
	2nd	Environment legislation: The Stockholm Conference, the Earth Summit, Kyoto Protocol and Copenhagen Conference, Environmental laws in India	
		Revisions till exams	

FGM Government College, Adampur			
Lesson Plan of Year 2020-2021			
Department- Geography			
Programme Name- Msc Geography 2nd sem.		Course Name- Geomorphology	
Teacher- Sandeep Kumar			
Month	Week	Topic	Assignments/test
JANUARY	1st	Introduction to geomorphology as a science: definition, nature and scope	1st assignment
	2nd	recent developments.	
	3rd	Geological structure and landforms, uniformitarianism	
	4th	Multicycle and polygenetic evolution of landscape	
Feburary	1st	Frequency concept of geomorphic processes	Class discussions& Test
	2nd	Climatogenetic geomorphology	
	3rd	Continental drift theory and its basic considerations; Plate tectonics-meaning and concept, margins and boundaries,	
	4th	plate motion and cycle; Tectonic activities along boundaries and distribution of plates.	
March	1st	Hill slope-definition and forms of slope, geomorphic processes	
	2nd	slope forms, slope evolution: down wearing	
	3rd	parallel retreat and slope replacement models	
	4th	Weathering : Causes; types of weathering: physical, chemical	
April	1st	Mass movement, causes, classifications and types of mass movements- slow and rapid mass movements	2nd Assignment
	2nd	Fluvial, Glacial, Aeolian and Karst	
	3rd	Applied geomorphology: Meaning and concept, role of geomorphology in the	
	4th	management of the following	
May	1st	Accelerated erosion and sedimentation	
	2nd		
		Revisions till exams	

FGM Government College, Adampur			
Lesson Plan of Year 2020-2021			
Department- Geography			
Programme Name- MSc Geography 4th sem.		Course Name- NRM	
Teacher- Sandeep Kumar			
Month	Week	Topic	Assignments/test
JANUARY	1st	Introduction: Concepts, models and approaches of natural	1st assignment
	2nd	Introduction: Concepts, models and approaches of natural resource management.	
	3rd	Population pressure, resource use and development	
	4th	Use and misuse of resources: Global and Indian Scenario	
Feburary	1st	historical background and future prospects of various resources soil, water, minerals and forests	Class discussions& Test
	2nd	Conservation and management of resources: Meaning, pri	
	3rd	philosophy and approaches	
	4th	to conservation	
March	1st	Resource appraisal and policy making appraisal of land resources, geophysical geochemical and geo-botanical	
	2nd	Use of GIS and remote sensing in resource appraisal	
	3rd	Institutional managements and policy models towards better management and conservation of resources.	
	4th	Institutional managements and policy models towards better management and conservation of resources.	
April	1st	Institutional managements and policy models towards better management and conservation of resources.	2nd Assignment
	2nd	Resources development: sustainable resource management concept, methods and sustainable system; integrated resource development and its application.	
	3rd	Resources development: sustainable resource	
	4th	management concept,	
May	1st	methods and sustainable	
	2nd	system;	
		Revisions till exams	

FGM Government College, Adampur			
Lesson Plan of Year 2020-21			
Programme Name- Msc Geography 1st		Department- Geography	
		Course Name- Geography of India	
Teacher- Dr. Ashok Beniwal			
Month	Week	Topic	Assignments/test
November	3rd	Major terrain elements of India and their role in shaping physical landscapes of India	
	4th	Drainage systems of India and their functional significance, Regional and seasonal variations in climate and climate regions of India	
January	1st	Soil and vegetation types of India- their distribution, characteristics and conservation.	1st assignment
	2nd	Agriculture: Characteristics of Indian agriculture, agricultural development in India since independence, problems of Indian agriculture.	
	3rd	Irrigation development in India, environmental impacts of irrigation development projects with special reference to Bhakra Nangal and Indira Gandhi Canal	
	4th	Production and distribution of following minerals and power resources, Minerals: Iron ore, mica, manganese, bauxite, Power Resources: coal, petroleum, hydropower	
February	1st	Minerals and power resources- The status of their use and need for conservation, Production and distribution of iron and steel, Production and distribution of cotton textile	Class discussions& Test
	2nd	Production and distribution of automobile industry, Major industrial regions of India and their characteristics.	
	3rd	Patterns of domestic and international trade.	
	4th	Major exports and imports of India's trade and balance of payment	2nd Assignment
		Revision till exams	

FGM Government College, Adampur			
Lesson Plan of Year 2020-21			
Programme Name- MSc Geography 3rd		Department- Geography	
		Course Name- Remote Sensing (Theory)	
Teacher- Dr. Ashok Beniwa			
Month	Week	Topic	Assignments/test
September	3rd	Introduction to Remote sensing,Basic of remote Sensing, Meaning and definition of Remote sensing Process of remote sensing, Stages of remote Sensing	1st assignment
	4th	Energy transmission and interaction , Scope of remote sensing, EM radiation Characteristics of EMR,Energy interaction with earth surface features	
October	1st	Electro magnetic spectrum,Application of EMS different bands,Types of Remote sensing	Class discussions& Test
	2nd	Introduction to Photogrammetry,Meaning and definition of aerial photographs,Aerial photograph,Types of aerial aerial	
	3rd	Process of photo acquisition, Scale of aerial photograph,Method of scale determination	
	4th	Scale determination using focal length and flying height	
November	1st	Resolution meaning and concept and its type	2nd Assignment
	2nd	Geometric property of vertical aerial photograph,Stereoscopic parallax,Stereogram and stereotriplet	
	3rd	Satellite Imagery, Satellite and sensor,Satellite orbit and characteristics	
	4th	Characteristics of Remote sensing satellites	
December	1st	IRS satellite and their orbital characteristics,Indian Space Program	Revisions till exams
	2nd	Process of satellite data processing,Satellite data acquisition and georeferencing	
	3rd	Satellite data interpretation,Methods of image interpretation,Visual image interpretation	
	4th	Elements of Image interpretation	
January	1st	Digital image interpretation; Supervised method and unsupervised	2nd Assignment
	2nd	Application in forest mapping/ monitoring and management	
	3rd	Application in LU LC mapping,Application in water resources mapping/ monitoring and management	
	4th	Application in land resources mapping/ monitoring and management	
Feburary	1st	Application in urban Planning, Applications in Bio mass estimation	2nd Assignment
	2nd	Application in wasteland mapping, Application in geological mineral studies	
		Revisions till exams	

FGM Government College, Adampur			
Lesson Plan of Year 2020-21			
Programme Name- MSc. Geography 2nd		Department- Geography	
		Course Name- Agricultural Geography	
Teacher- Dr. Ashok Beniwa			
Month	Week	Topic	Assignments/test
May	1st	Nature, Scope and Significance of Agriculture geography, Origin and dispersal of agricultural, determinants of agricultural patterns	1st assignment
	2nd	Concepts of land capability survey, land use and cropping pattern	
	3rd	von thune model of agricultural development, crop combination, diversification, concentration	
	4th	Agro-climatic zonation	
July	1st	Whitsey agricultural typology, measurements of regional imbalances, green revolution	Class discussions& Test, 2nd Assignment
	2nd	Food production and security in India, Neo-liberalization in agriculture	
	3rd	Impacts of climate change on agricultural systems	
		Revision till exams	

FGM Government College, Adampur			
Lesson Plan of Year 2020-21			
Programme Name- MSc. Geography 4th		Department- Geography	
		Course Name- Fundamental of Geographical information Systems	
Teacher- Dr. Ashok Beniwa			
Month	Week	Topic	Assignments/test
April	1st	GIS; Concept, definition and Development	1st assignment
	2nd	Hardware and software require for GIS enviornment	
	3rd	Data for GIS; spatial and Non-spatial data	
	4th	data base management system, source of error in GIS database	
may	1st	Map, Scale and map projection	Class discussions& Test
	2nd	Need and propertied of map Projection	
	3rd	Integration of remote sensing data into GIS	
	4th	GIS Application in respurce mapping	
june	1st	real time mapping	2nd Assignment
	2nd	Current issue in GIS	
		Revision till exams	