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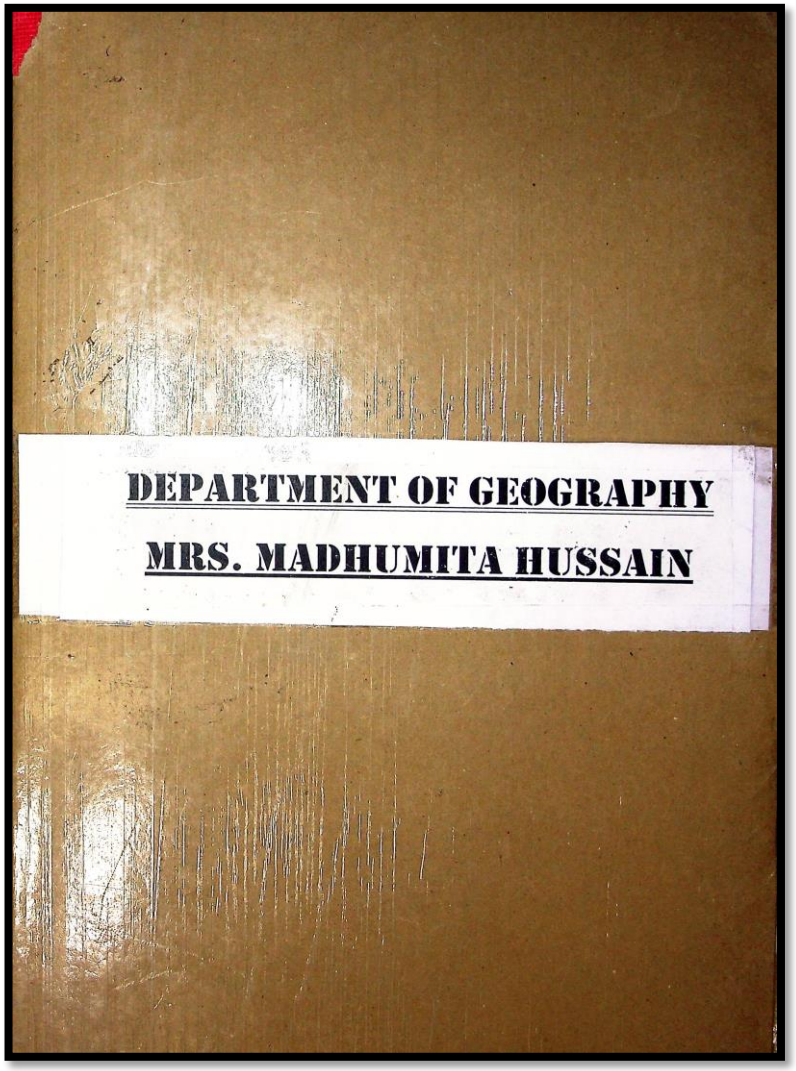

COURSE_PLAN_2022-23_DR_MADHUMITA_HUSSAIN

SOPHIA GIRL'S COLLEGE, AJMER (*AUTONOMOUS*)
B.A SEMESTER I
PHYSICAL GEOGRAPHY–I (PAPER I) (GEO-101)

(Elements of Geomorphology)

Max. Marks: 75 (50Ext; 25 Int) **Min. Marks: 30(20 Ext;10 Int)**

Credit: 03 **Duration: $2^{1/2}$ hrs**

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I AUG	**Unit I** Origin of the Earth: Big Bang Theory	Ice age, Super Nova, Hot Planet etc.	PPT, Chart, Maps, Visual 3- D Models, Flipped Classroom	Identify the concepts of origin of earth and landform.	*Knowledge Based* 1. What is Solar System? 2. Illustrate the different layers of Earth's Interior? *Understanding Based* 1. Compare the Continental Drift Theory and the concept of Plate Tectonics? 2. Classify the different landforms formed by the action of river?	Knowledge--60 Understanding-30 Higher Order-10
	Earth's interior: Structure and zoning of the Earth's interior;	Law of Floatation	Match the following, Quiz, Demonstration			
	Forces of the Earth: Endogenetic and Exogenetic; Folds and Faults.	Force of Buoyancy & Gravitation	Maps, Flow Charts, Diagram, YouTube Videos			
SEPT.	**Unit II** Origin of Continents and Oceans: Wegner's Continental Drift Theory.	Climatic Zones, Layers of the earth, Geological time scale, Force of Buoyancy & Gravitation	Diagrams, Models, demonstration through Globe, Flow Charts	Illustrate the different forces acting over the earth.		
	Plate tectonics, Sea-floor spreading; Theory of Isostacy;	Isostatic Balance, Himalayan Disturbances,	Diagrams, Models, demonstration			

		Concept of Displacement, Law of Floatation	through Globe, Videos Representing topics		*Higher Order Thinking Skills Based* 1. Justify the present distribution of world continents and oceans on the basis of Harry Hess's Plate Tectonics Theory? 2. Critically evaluate the concepts of Sea Floor spreading?	
	Volcanoes: types, distribution and related landforms; Earthquakes: occurrence, distribution.	Seismography	Maps, Diagrams, Models, Demonstration			
OCT.-NOV.	**Unit III** Rocks: Igneous, Sedimentary and Metamorphic	Geological Structure, Fossils, Interior of the earth, Landforms	PDF Share, Flipped Classrooms, Models, Demonstration	Compare and analyze the different cycles of landform erosion and their processes.		
	Denudation: Weathering and its types, Erosion and resulted landforms:	Exogenetic Forces of the earth, Agents' erosion	PPT, Demonstration through Videos			
	Work of River, Glacier, Wind (arid and semi-arid), and Karst, Davison Cycle of erosion.	Stages of development, World Physiography	PPT, Case Studies, Flipped Classroom			

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B.A SEMESTER III

GEOGRAPHY OF INDIA-I (PAPER II) (GEO-302)

Max. Marks: 75 (50Ext; 25 Int) **Min. Marks: 30(20 Ext;10 Int)**

Credit: 03 **Duration: $2^{1/2}$ hrs**

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM III JUL.	UNIT I **India:** Physiographic Division		PPT, Chart, Maps, Visual 3-D Models	Identify physiographic regions of India and schematize the river systems of India.	*Knowledge Based* Elaborate the physiographic regions and its capacities. Write a note on relevance and importance of Drainage system. *Understanding Based* Why is Indian agriculture conside red as "gamble against monsoon"? Discuss the statement	
	Drainage: Himalayan and Peninsular River systems.		Match the following, Quiz, Demonstration			
			Maps, Flow Charts, Representation through Videos			
AUG.-SEPT.	UNIT II Regional and seasonal variation of Climate – Monsoon: Factors Affecting, Role of Jet Streams, El-Nina, La Nina;		Diagrams, Models, demonstration PPT's, PDF's	Describe factors affecting Indian monsoon system.		

	colouring spot heights, benchmarks.			acquired knowledge.		
OCT.-NOV.	e. Identification of relief features on a map through contours –conical hill, plateau, ridge, v-shaped valley, escarpment, cliff, waterfall, types of slopes (uniform, undulating, convex and concave, gentle and steep)	Slopes, Areal topographical interpretation	Demonstration and Lab exercises with Video Animations			

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SOPHIA GIRLS' COLLEGE, AJMER (*Autonomous*)
M. A/M.Sc GEOGRAPHY (Previous)
SEMESTER I
GEOMORPHOLOGY (GEOM-102)

Max Marks: 100 (70Ext; 30 Int)
Credit: 06

Min. Marks: 40 (28 Ext;12 Int)
Duration: 03 hrs.

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I SEP	UNIT I Nature and Scope; Fundamental Concepts; Forces of the Earth;	Uniformatism, Composition of the earth.	Chart, Maps, Visual Models, Audio –Visual PPT	Identify and discuss the fundamental concepts, incidences and occurrences of seismology and vulcanicity, plate tectonics and isostacy.	*Knowledge Based* Illustrate the fundamental concepts of geography. *Understanding Based* Analyze various theories that shape earth.	Knowledge-- 40 Understanding - 30 ~~30~~
	Plate Tectonics; Theories of Isostasy;	Law of Floatation, Buoyancy, Magnetism.	Maps, Vedios, PPT Demonstration			
	Seismicity and Vulcanicity: Causes, consequences & associated features.	Paleo-magnetism, P-S Waves	Maps, Flow Charts, Case Studies			
	UNIT II Mountain Building: Continental Drift Theory (Wegner), Geosynclinal Theory of Kober, Holme's Convectional Current Theory	Plate tectonics, Composition and layering of the earth	Diagrams, Models, demonstration through Globe	Summarize and evaluate Continental and		

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OCT	Denudation: Weathering and Erosion their process and types,	Exogenetic forces.	Diagrams, Models.	mountain building theories.	*Higher Order Thinking Skills Based* Justify the present distribution of world continents and oceans on the basis of Hary Hess's Plate Tectonics Theory? Critically Evaluate the concepts of Sea Floor spreading? Examine various Slopes and evolution?	Higher Order-30
	Davisian Model of Cycle of Erosion and Penck's Morphological System.	V-shaped Valley, Diastrophism, Landslides.	Diagrams, Models, Posters			
NOV TO DEC	**UNIT III** Formation and Characteristics: Fluvial, Glacial, Aeoline (Arid and Semi-Arid),	Attrition, Ablation, Abrasion, plucking.	Demonstration through rock samples	Illustrate various landforms and classify their process of evolution and distribution.		
	Karst, Coastal landforms	Attrition, Ablation, Abrasion, plucking	PPT, Use of Videos, Demonstration			
	Slopes; Forms, processes and evolution; Davis, Rejuvenation,	Channel, slope profile.	PPT, Case Studies, Flipped Classroom			

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SOPHIA GIRLS' COLLEGE, AJMER (*Autonomous*)
M. A/M.Sc GEOGRAPHY (Final)
SEMESTER III
INDUSTRIAL GEOGRAPHY (a) (GEOM-302)

Max Marks: 100(70Ext; 30 Int)
Credits: 06

Min. Marks: 40(28 Ext;12 Int)
Duration: 03 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM III SEP	**UNIT I** Nature, scope and recent developments;	Industrial location.	PPT, Flow Chart,	Identify the elements and factors of localization of industries.	*Knowledge Based* Enumerate the concepts of centralisation and de-centralisation. *Understanding Based* Correlate the methods of measuring the spatial distribution of manufacturing industries with the major industrial	Knowledge--30 Understan
	Elements and Factors of Localization; Centralization and Decentralization;	Forward and backward linkages.	Diagrams, PPT Quiz,			
	Theories and models of industrial location: Weber, Losch, Isard and Hoover.	Locational triangle, Isodapane	Maps, Flow Charts, Diagrams, Models			
	UNIT II Distribution and spatial pattern of manufacturing industries- Iron and Steel;	Resource based industries.	Diagrams, Models, PPT. Discussions	Establish a connection between the localization theories and		

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OCT	Textiles, and chemicals manufacturing industries	Resource based industries.	Maps, Diagrams, Models,	distribution of manufacturing industries in the world.	regions of the world. *Higher Order Thinking Skills Based* Evaluate the environmental degradation caused by manufacturing industries Industrial hazards and occupational health.	ding-40 Higher Order-30
	Manufacturing Regions of the World of USA and China.	Industrial distribution of the world.	Maps, Diagrams, Models,			
NOV TO DEC	**UNIT III** Environmental degradation caused by manufacturing industries	Global Environmental concerns	Diagrams, Models, Flipped Class, Group Discussion	Speculate the impact of globalization and changing industrial policies on world environment.		
	Impact of industries on economic development; Role of Globalization on industrial sector;	LPG - Reforms	PPT, Case Studies ,Discussion			
	Concept of integrated industrial decentralization.	Decentralisation and centralisation.	Case Studies, PPT.			

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B.A SEMESTER II

PHYSICAL GEOGRAPHY –II PAPER I (GEO-201) (Climatology and Oceanography)

Max. Marks: 75 (50 Ext; 25 Int)

Min. Marks: 30 (20 Ext;10 Int)

Credit: 03

Duration: $2^{1/2}$ hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM II DEC To JAN	UNIT I Definition and Significance of Climatology; Composition and structure of the atmosphere;	Concept of Climate and Weather, Layers of Atmosphere	PPT, Chart, Maps, Visual 3-D Models	Understand the meaning and significance of climatology.	*Knowledge Based* Illustrate the composition and structure of atmosphere. Distinguish between planetary and periodic winds. *Understanding Based* Discuss the horizontal and vertical distribution of temperature.	Knowledge--55 Understanding-30 Higher Order-15
	Atmospheric Temperature: Vertical and Horizontal distribution of temperature; Atmospheric pressure and Pressure belts;	Diurnal conversion, Relationship between Temperature and pressure	Match the following, Quiz, Demonstration			
	Winds: Planetary, Periodic and Local winds; Hydrological cycle	Global Climatic Zones	Maps, Flow Charts			
FEB.	UNIT II Air masses; Fronts: Concept, classification and properties;	Atmospheric Circulations	Diagrams, Models, demonstration through Globe.	Explain various climatic phenomenon and deduce measures to		
	Cyclones: Tropical and Temperate cyclones;	Pressure circulation, Western Disturbances.	Diagrams,			

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			Models, demonstration through Globe.	control global warming.	Define cyclones and their types. *Higher Order Thinking Skills Based* Explain the origin and development of coral reefs. Discuss the importance ocean currents.	Hussain
	Climatic classification of Koppen and Thornwait	Ozone depletion, Green house gases.	Maps, Diagrams, Models, Demonstration			
MAR.-APR.	**UNIT III** Definition of Oceanography; Ocean Bottom Relief: Atlantic, Pacific and Indian Ocean;	Marine resources, Gulf	PPT, Maps and diagrams.	Define oceanography and elaborate the significance of oceans.		
	Distribution of Temperature and Salinity; Circulation of oceanic waters- Currents: Atlantic, Pacific and Indian ocean;	Factors affecting salinity, Fishing Grounds.	PPT, Demonstration			
	Coral Reefs: Types, Darwin's Subsidence Theory.	Great Barrier Reef,	PPT, Flipped Classroom.			

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B.A SEMESTER VI

GEOGRAPHICAL THOUGHT- (PAPER II) (GEO-601)

Max. Marks : 75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

Duration: $2^{1/2}$ hrs

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM II DEC.-JAN.	UNIT I The nature and scope of geography;		PPT, Chart, Maps, Visual 3-D Models	Know and understand geography of Vedic Age. Trace the contribution of Greek,	*Knowledge Based* Illustrate the different School of thought *Understanding Based* *Higher Order Thinking Skills Based*	Knowledge--55
	Geography of Vedic and Puranic Age: Dwipa, Ocean, River and Mountain systems; Development of modern geography in India.	Vedic Concept of Origin of Universe, solar system and Earth	Match the following, Quiz, Demonstration			
	Ancient classical Geography-Contribution of Greeks and Romans.		Maps, Flow Charts			

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		Initiation of Logical and conceptual Geography		Roman, Arab, French, German, British and American Geographers. Compare Dualism in Geography.		Understanding- 30 Higher Order- 15
FEB.	**UNIT II** Dark Age; Contribution of Arab Geographers: Ibn-Batuta, Al-Biruni, Al-Masudi, Ibn-Khaldun and Al-Idrisi.	Cartography and Map Interpretation, Climatic studies	Diagrams, Models, demonstration through Globe			
	German school of Geography: Contribution of Humboldt, Ritter and Ratzel; French School of Geography: Contribution of Blache and Brunhes;	Empirical, Inductive and Deductive studies	Diagrams, Models, demonstration through Globe			
	British and American school of Geography: Contribution of Mackinder, Herbertson, Miss E. Semple, Huntington and Davis.	Concept of Dualism	Maps, Diagrams, Models, Demonstration			

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MAR. – APR.	UNIT III Dualism in Geography: Determinism and Possibilism, Physical and Human, Systematic and Regional;	Relationship between Man and Environment	Demonstration through rock samples			Hussain
	Major concepts in Geography: Neo-Determinism, Terrestrial unity, Areal differentiation;		PPT, Demonstration			
	Remote Sensing and GIS-Use and Importance.		PPT, Case Studies, Flipped Classroom			

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M. A/M. Sc GEOGRAPHY SEMESTER II

CLIMATOLOGY AND OCEANOGRAPHY(GEOM-201)

Max Marks: 100(70Ext; 30 Int) Min. Marks: 40(28 Ext;12 Int) Credit: 06 Duration: 03 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM II	**UNIT I** Nature and Scope of Climatology; Composition and Structure of the atmosphere;	Concept of climate and weather.	PPT, Chart, Maps, Visual 3- D Models	Distinguish the various climatic phenomenon and explain their global to regional distribution.	*Knowledge Based* Describe the structure and composition of the atmosphere. *Understanding Based* Compare the tropical and temperate cyclones. *Higher Order Thinking Skills Based* Evaluate the theories depicting	Knowledge--40 Understanding-30 Higher Order-30
	Insolation: Vertical and Horizontal distribution of temperature;	Temperature insolation	Demonstration by models.			
	Atmospheric pressure; Winds: Planetary, Periodic and Local winds.	Global wind circulation.	Maps, Flow Charts			
	UNIT II Atmospheric moisture: Absolute and Relative Humidity; Types of Clouds and Precipitation;	Composition of the earth, layers of atmosphere.	Diagrams, Models, demonstration through Globe	Classify climatic regions of the world and observe dynamics of cyclones.		
	Air Masses and Fronts: Concept, Classification and properties. Atmospheric Disturbances: Tropical and Temperate cyclones;	Land and water distribution, rotation and revolution.	Diagrams, Models, demonstration through Globe			
	Climatic classification of Koppen and Thornthwaite;	Global Climatic Regions.	Maps, Diagrams,			

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			Models, Demonstration		presence of coral reefs.	
	UNIT III Nature and scope of Oceanography; Major features of ocean basins;	Hypsometric curve.	Globe, Diagrams, PPT.	Sketch the major features of ocean basins and critically evaluate the distribution of temperature and salinity in oceans.		
	Ocean Temperature and Distribution; Salinity; currents; Tides: Types and Theories (Progressive Wave Theory and Newton Equilibrium Theory);	Ocean bottom relief, gravitation and buoyancy.	PPT, Demonstration			
	Coral reefs: Types and Theories (Darwin, Daly and Murray).	Marine organisms, Ocean bottom relief.	PPT, Flipped Classroom			

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M. A/M. Sc GEOGRAPHY SEMESTER II

RESOURCES AND ECONOMIC GEOGRAPHY (GEOM-202)

Max Marks: 100(70Ext; 30 Int) Min. Marks: 40(28 Ext;12 Int) Credits: 06 Duration: 03 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM II	**UNIT I** Nature and Scope; Recent trends;	Concept of resource.	PPT, Chart, Maps, Visual 3- D Models	Classify economies and discover factors affecting location of economic activities.	*Knowledge Based* Summarize the nature and scope of resource and economic geography. *Understanding Based* Discuss the World's Trade Blocs and their importance in present scenario.	Knowledge-40 Understanding -30 Higher Order-30
	Sectors of Economy (Primary, Secondary, Tertiary, Quaternary and Quinary);	Relationship of occupation structures with geographical diversities.	Match the following, Quiz, Demonstration			
	Factors of Location of Economic Activities: physical, social, economic and cultural.	economic activities.	Maps, Flow Charts			
	UNIT II Classification of Industries: Agro-based & Mineral;	Resource based industries.	Diagrams, Models, demonstration through Globe	Exemplify the economic theories and establish a connection with the industrial development of the world.		
	Concept of footloose industries;	Assembled industries.	Diagrams,			

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			Models, demonstration through Globe		*Higher Order Thinking Skills Based* Evaluate the global revolutions and their objectives.	
	World's Trade Blocs; Revival of Silk Route.	Dynamism in world economic trade.	Maps, Diagrams, Demonstration through globe			
	UNIT III Network Analysis: accessibility, connectivity, nodes and matrix;	Transport network,	Diagrams, Models,	Observe various modes of transportation and access the impact of globalization on trade.		
	Comparative Cost Analysis;	Freight rate.	PPT, Demonstration			
	Globalization and its impact on the spread of COVID	Pandemic Crisis	PPT, Case Studies, Flipped Classroom			

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M. A/M.Sc. GEOGRAPHY (Final) SEMESTER IV
QUANTITATIVE TECHNIQUES IN GEOGRAPHY (a) (GEOM-403)

Max Marks: 100(70Ext; 30 Int) Min. Marks: 40(28 Ext;12 Int) Credits: 06 Duration: 03 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM IV JAN.	UNIT I Statistics – Meaning and Objective; Sampling techniques;	Data understanding and analysis.	PPT, Chart, Maps, Visual 3- D Models	Understand and estimate the importance of quantitative techniques.	*Knowledge Based* Understand and estimate the importance of quantitative techniques. *Understanding Based* Differentiate between scales of measurement. *Higher Order Thinking Skills Based* Formulate hypothesis and measure the level of significance.	Knowledge--30 Understanding-30 Higher Order-40
	Central Tendencies – Mean, Median, Mode.	Central Tendencies	Quiz, Demonstration			
	Measures of Dispersion – Range, Quartile deviation, Standard deviation; Its uses and computation.	Understanding variability.	Maps, Flow Charts			
FEBRUARY	UNIT II Types of Statistics – Parametric & Non-Parametric, descriptive and inferential statistics;	Parametric & Non-Parametric	Diagrams, Models, demonstration through Globe	Differentiate between parametric and non- parametric inferences.		
	scales of measurement: Nominal, Ordinal, Interval Ratio:	scales of measurement	Diagrams, Models, demonstration through Globe			
	Correlation: Meaning, rank, Spearman; Regression Analysis.	Understanding of Correlation	Maps, Diagrams, Models.			

MARCH - APRIL	UNIT III Hypothesis testing. Level of significance:	Understanding of statistical methods.	Demonstration through rock samples	Formulate hypothesis and measure the level of significance.		
	Chi-square test: Meaning & Computation; t-test;	Understanding of statistical methods.	PPT, Demonstration			
	z-test; Analysis of Variance (ANOVA);	Understanding of statistical methods.	PPT, Case Studies, Flipped Classroom			

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