

Government Polytechnic Kullu at Seobagh Distt Kullu H.P. 175138					
Department of Civil Engineering					
Lesson Plan w.e.f 27/01/2025 to 29/05/2025					
Name of Subject:-		Hydraulics (CEPC202)		Session:-	February-June 2025
Name of Teacher:-		Er. Parveen Kumar		Semester:-	4th Semester
Designation:-		Lecturer (Civil Engg.)		Scheme:-	N-2022
Sr No	Month	Week	Contents	Remarks	
1	January	Week 5	<b>Unit – 1 Pressure measurement and Hydrostatic pressure</b> <input type="checkbox"/> Technical terms used in Hydraulics –fluid, fluid mechanics, hydraulics, hydrostatics, and hydrodynamics - ideal and real fluid, application of hydraulics. <input type="checkbox"/> Physical properties of fluid – density-specific volume, specific gravity, surface tension, capillarity, and viscosity-Newton's law of viscosity.		
2	February	Week 1	<input type="checkbox"/> Various types of pressure – Atmospheric Pressure, Gauge Pressure, Absolute Pressure, Vacuum Pressure. Concept of Pressure head and its unit, Pascal's law of fluid pressure and its uses. <input type="checkbox"/> Measurement of differential Pressure by different methods.		
		Week 2	<input type="checkbox"/> Variation of pressure with depth, Pressure diagram, hydrostatic pressure and center of pressure on immersed surfaces and on tank walls.		
		Week 3	<input type="checkbox"/> Determination of total pressure and center of pressure on sides and bottom of water tanks, sides and bottom of tanks containing two liquids, vertical surface in contact with liquid on either side.		
		Week 4	<b>Unit- 2 Fluid Flow Parameters</b> <input type="checkbox"/> Types of flow – Gravity and pressure flow, Laminar, Turbulent, Uniform, Non-uniform, Steady, Unsteady flow. Reynolds number. <input type="checkbox"/> Discharge and its unit, continuity equation of flow.		
3	March	Week 1	<input type="checkbox"/> Energy of flowing liquid: potential, kinetic and pressure energy. <input type="checkbox"/> Bernoulli's theorem: statement, assumptions, equation.		
		Week 2	Revision		
		Week 3	<b>Class Test - I.</b> <input type="checkbox"/> <b>Unit- 3 Flow through pipes</b> Major Head loss in pipe: Frictional loss and its computation by Darcy's Weisbach equation.		
		Week 4	<input type="checkbox"/> Minor losses in pipe: loss at entrance, exit, sudden contraction, sudden enlargement, and fittings.		
4	April	Week 1	<input type="checkbox"/> Flow through pipes in series, pipes in parallel and Dupuit's equation for equivalent pipe. <input type="checkbox"/> Hydraulic gradient line and total energy line.		
		Week 2	Revision		
		Week 3	<b>Class Test - II.</b> <b>Unit- 4 Flow through Open Channel</b> <input type="checkbox"/> Geometrical properties of channel section: Wetted area, wetted perimeter, hydraulic radius for rectangular and trapezoidal channel section.		
		Week 4	<input type="checkbox"/> Determination of discharge by Chezy's equation and Manning's equation. <input type="checkbox"/> Conditions for most economical rectangular and trapezoidal channel section.		
		Week 5	<input type="checkbox"/> Discharge measuring devices: Triangular and rectangular Notches. <input type="checkbox"/> Velocity measurement devices: current meter, floats and Pitot's tube. <input type="checkbox"/> Specific energy diagram, Froude's Number.		
5	May	Week 1	Revision		
		Week 2	House Test		
		Week 3	<b>Unit- 5 Hydraulic Pumps</b> <input type="checkbox"/> Concept of pump, Types of pumps - centrifugal, reciprocating, submersible.		
		Week 4	Suction head, delivery head, static head, Manometric head. Selection and choice of pump.		
		Week 5	Revision		

Signature of Teacher  
(Er. Parveen Kumar)

Signature of H.O.D  
(Er. Adit Rana)


**Government Polytechnic Kullu at Seobagh Distt Kullu H.P. 175138**

**Department of Civil Engineering**

**Lesson Plan w.e.f 27/01/2024 to 25/05/2024**

Name of Subject:-			Advanced Surveying	Session:-	Jan-May 2025
Name of Teacher:-			Er Neha Thakur	Semester:-	4th Semester
Designation:-			Lecturer (Civil Engg)	Scheme:-	N-2022
Sr No	Month	Week	Contents	Remarks	
1	January	Week 5	<b>Unit – 1 Plane Table Surveying</b> Principles of plane table survey. Accessories of plane table and their use, Telescopic alidade. Setting of plane table; Orientation of plane table - Back sighting and Magnetic meridian method.		
2	February	Week 1	Methods of plane table surveys- Radiation, Intersection and Traversing. Merits and demerits of plane table survey		
		Week 2	<b>Unit– 2 Theodolite Surveying</b> Types and uses of Theodolite, Components of transit Theodolite and their functions, Reading the Vernier of transit Theodolite. Technical terms- Swinging, Transiting, Face left, Face right. Fundamental axes of transit Theodolite and their relationship		
		Week 3	Temporary adjustment of transit Theodolite.Measurement of horizontal angle-Direct and Repetition method Errors eliminated by method of repetition. Measurement of magnetic bearing of a line.		
		Week 4	Prolonging and ranging a line, deflection angle Measurement of vertical Angle.Theodolite traversing by included angle method and Deflection angle method.Traverse Computation-Latitude, Departure, Consecutive coordinates, independent coordinates.		
3	March	Week 1	<b>Unit–3 Tacheometric surveying and Curve setting</b> Principles of Tacheometry, Tacheometer, and its component parts, Anallatic lens.Tacheometric formula for horizontal distance with telescope horizontal and staff vertical.		
		Week 2	<b>Revision</b>		
		Week 3	<b>Class Test -I</b> method for determining constants of tacheometer	Field	
		Week 4	determining horizontal and vertical distances with tacheometer by fixed hair method and staff held vertical.Limitations of tacheometry.Types of curves used in roads.		
4	April	Week 1	Designation of curves.Setting simple circular curve by offsets from long chord.		
		Week 2	<b>Revision</b>		
		Week 3	<b>Class Test-II</b> Rankine's method of deflection angles.		
		Week 4	<b>Unit– 4 Advanced surveying equipment</b> Principle of Electronic Distance Meter (EDM), its component parts and their Functions		
		Week 5	use of EDM.Use of micro-optic Theodolite and Electronic Digital		
		Week 1	Use of Total Station, Use of function keys.		
		Week 2	<b>House Test</b>		

5	May	Week 3	<b>Unit- 5 Remote sensing, GPS and GIS</b> Remote Sensing – Overview, Remote sensing system, Applications of remote sensing in Civil engineering, land use / Land cover, mapping, disaster management. :	
		Week 4	Use of Global Positioning System (G.P.S.) instruments.Geographic Information System (GIS)	
		Week 5	Overview, Components, Applications, Software for GIS.Introduction to Drone Surveying.	

  
Signature of Teacher  
(Er Neha Thakur)

Signature of H.O.D  
(Er Adit Rana)



Government Polytechnic Kullu at Seobagh Distt Kullu H.P. 175138				
Department of Civil Engineering				
Lesson Plan w.e.f 27/01/2024 to 25/05/2024				
Name of Subject:-		Building Planning & Drawing	Session:-	Jan-May 2025
Name of Teacher:-		Er Neha Thakur	Semester:-	4 <sup>th</sup> Semester
Designation:-		Lecturer (Civil Engg)	Scheme:-	N-2022
Sr No	Month	Week	Contents	Remarks
1	January	Week 5	<b>Unit – I Conventions and Symbols</b> Conventions as per IS 962, symbols for different materials such as earthwork, brickwork, stonework, concrete, woodwork, and glass. Graphical symbols for doors and windows, Abbreviations, symbols for sanitary and electrical installations.	
2	February	Week 1	Types of lines-visible lines, centre line, hidden line, section line, dimension line, extension line, pointers, arrowhead, or dots.	
		Week 2	Appropriate size of lettering and numerals for titles, sub-titles, notes, and dimensions. Types of scale- Monumental, Intimate, criteria for Proper Selection of scale for various types of drawing.	
		Week 3	Sizes of various standard papers/sheets. Reading and interpreting readymade Architectural building drawing.	
		Week 4	<b>Unit– II Planning of Building</b> Principles of planning for Residential and Public building- Aspect, Prospect, Orientation, Grouping, Privacy, Elegance, Flexibility, Circulation, Furniture requirements, Sanitation, Economy.	
3	March	Week 1	Space requirement and norms for minimum dimension of different units in the residential and public buildings as per IS 962. Rules and byelaws of sanctioning authorities for construction work	
		Week 2	Plot area built up area, super built-up area, plinth area, carpet area, floor area and FAR (Floor Area Ratio). Line plans for residential building of minimum three rooms including water closet (WC), bath and staircase as per principles of planning	
		Week 3	<b>Class Test -I</b>	
		Week 4	Line plans for public building-school building, primary health centre, restaurant, bank, post office, hostel, Function Hall and Library.	
4	April	Week 1	<b>Unit– III Drawing of Load Bearing Structure</b> Drawing of Single storey Load Bearing residential building (2 BHK) with staircase. Data drawing – plan, elevation, section, site plan, schedule of openings.	
		Week 2	Construction notes with specifications, area statement, Planning and design of staircase- Rise and Tread for residential and public building.	
		Week 3	<b>Class Test -II</b>	
		Week 4	Working drawing – developed plan, elevation, section passing through staircase or WC and bath. Foundation plan of Load bearing structure.	
		Week 5	<b>Unit– IV Drawing of Framed Structure</b> Drawing of Two storeyed Framed Structure (G+1), residential building (2 BHK) with stair- case. Working drawing of Framed Structure – developed plan, elevation, section passing through staircase or WC and bath.	

5	May	Week 1	Data drawing – developed plan, elevation, section, site plan, schedule of openings, construction notes with specifications, area statement. Planning and design of staircase- Rise and Tread for residential and public building.	
		Week 2	<b>House Test</b>	
		Week 3	Foundation plan of Framed Structure. Details of RCC footing, Column, Beam, Chajjas, Lintel, Staircase, and slab. Drawing with CAD- Draw commands, modify commands, layer commands.	
		Week 4	Drawing with CAD- Draw commands, modify commands, layer commands	
		Week 5	Drawing with CAD- Draw commands, modify commands, layer commands	

Signature of Teacher  
(Er Neha Tiskar)

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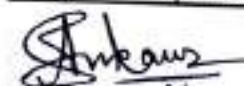


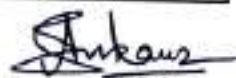
Government Polytechnic Kullu at Seobagh Distt Kullu H.P. 175138					
Department of Civil Engineering					
Lesson Plan w.e.f 27/01/2025 to 29/05/2025					
Name of Subject:-		Construction Management		Session:-	February-June 2025
Name of Teacher:-		Er. Neha Thakur		Semester:-	4th Semester
Designation:-		Lecturer (Civil Engg.)		Scheme:-	N-2022
Sr No	Month	Week	Contents		Remarks
1	January	Week 5	<b>Unit – I Construction industry and management</b> <input type="checkbox"/> Organization-objectives, principles of organization, types of organization: government/public and private construction industry, Role of various personnel in construction organization		
2	February	Week 1	<input type="checkbox"/> Agencies associated with construction work- owner, promoter, builder, designer, architects.		
		Week 2	<input type="checkbox"/> Role of consultant for various activities: Preparation of Detailed Project Report (DPR), Monitoring of progress and quality, settlement of disputes.		
		Week 3	<b>Unit – II Site Layout</b> <input type="checkbox"/> Principles governing site layout. <input type="checkbox"/> Factors affecting site layout.		
		Week 4	<input type="checkbox"/> Preparation of site layout.		
3	March	Week 1	<input type="checkbox"/> Land acquisition procedures and providing compensation.		
		Week 2	<b>Revision</b>		
		Week 3	<b>Class Test - I.</b> <b>Unit- III Planning and scheduling</b> <input type="checkbox"/> Identifying broad activities in construction work & allotting time to it, Methods of Scheduling.		
		Week 4	<input type="checkbox"/> Development of bar charts, Merits & limitations of bar chart. <input type="checkbox"/> Elements of Network: Event, activity, dummy activities, Precautions in drawing Network, Numbering the events.		
4	April	Week 1	<input type="checkbox"/> CPM networks, activity time estimate, Event Times by forward & backward pass calculation, start and finish time of activity, project duration. Floats: Types of Floats-Free, independent, and total floats, critical activities and critical path, Purpose of crashing a network, Normal Time and Cost, Crash Time and Cost, Cost slope.		
		Week 2	<input type="checkbox"/> Optimization of cost and duration. <input type="checkbox"/> Material Management- Ordering cost, inventory carrying cost, Economic Order Quantity Store management, various records related to store management, inventory control by ABC technique, Introduction to material procurement through portals (e.g. <a href="http://www.inampro.nic.in">www.inampro.nic.in</a> )		
		Week 3	<b>Class Test - II.</b> <b>Unit IV Construction Contracts and Specifications</b> <input type="checkbox"/> Types of Construction contracts		
		Week 4	<input type="checkbox"/> Contract documents, specifications, general special conditions		
		Week 5	<input type="checkbox"/> Contract Management, procedures involved in arbitration and settlement (Introduction only)		
5	May	Week 1	<b>Revision</b>		
		Week 2	<b>House Test</b>		
		Week 3	<b>Unit- V Safety in Construction</b> <input type="checkbox"/> Safety in Construction Industry—Causes of Accidents, Remedial and Preventive Measures.		
		Week 4	<input type="checkbox"/> Labour Laws and Acts pertaining to Civil construction activities (Introduction only)		
		Week 5	<b>Revision</b>		

  
 Signature of Teacher  
 (Er. Neha Thakur)

  
 Signature of H.O.D  
 (Er. Adil Rana)


Government Polytechnic Kullu at Seobagh Distt Kullu H.P. 175138					
Department of Civil Engineering					
Lesson Plan w.e.f 27/01/2024 to 25/05/2024					
Name of Subject:-		Railways, Bridges & Tunnels		Session:-	Jan-May 2025
Name of Teacher:-		Er Adit Rana		Semester:-	4 <sup>th</sup> Semester
Designation:-		H.O.D (Civil Engg)		Scheme:-	N-2022
Sr No	Month	Week	Contents	Remarks	
1	January	Week 5	RAILWAYS, Introduction to Indian Railways,		
2	February	Week 1	Railways surveys: Factors influencing the railways route, brief description of various types of railway survey		
		Week 2	Classification of permanent way describing its component part, Rail Gauge; Definition, types, practice in India, Rail – types of rails, Rail Fastening: Rail joints, types of rail joints, fastening for rails, Fish plates, spikes bearing plates		
		Week 3	Sleepers: Functions of sleepers, types of sleepers, requirements of an ideal material of Sleepers		
		Week 4	Ballast: Function of ballast, requirements of an ideal material of ballast, Crossing and signalling: Brief description regarding different types of crossing/signalling		
3	March	Week 1	Maintenance of track: Necessity, track fixtures; maintenance and boxing of ballast, maintenance gauges,		
		Week 2	Revision		
		Week 3	Class Test -I		
		Week 4	BRIDGES, Introduction, Bridge–its function and component parts, difference between a bridge and A culvert, Classification of Bridges		
4	April	Week 1	Their structural elements and suitability: According to life-permanent and temporary, According to deck level–Deck, through and semi-through, According to material–timber, masonry, steel, RCC, pre-stressed, IRC classification		
		Week 2	Bridge Foundations: Introduction to open foundation pile foundation, Well foundation, Piers, Abutments and Wing walls, Piers–definition, parts; types–solid (masonry and RCC), open,		
		Week 3	Class Test-II		
		Week 4	Abutment and wing walls– definition, types of abutment (straight and tee), abutment with wing walls (straight, splayed, return and curved)		
		Week 5	Bridge bearings Purpose of bearing: types of bearing–fixed plate, rocker and roller, Maintenance of Bridges, Inspection of bridges, Routine maintenance		
5	May	Week 1	Revision		
		Week 2	House Test		
		Week 3	TUNNELS Definition and necessity of tunnels, Typical section of tunnels for a national highway and single and double broad gauge railway track. Ventilation-necessity and methods of ventilation, by blowing, exhaust and combination of blowing and exhaust		
		Week 4	Drainage method of draining water in tunnels, Lighting in tunnels & lining of tunnels.		
		Week 5	Revision		

  
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Department of Civil Engineering					
Lesson Plan w.e.f 27/01/2025 to 29/05/2025					
Name of Subject:-		Hydraulics Lab.		Session:-	February-June 2025
Name of Teacher:-		Er. Parveen Kumar		Semester:-	4th Semester
Designation:-		Lecturer (Civil Engg.)		Scheme:-	N-2022
Sr No	Month	Week	Contents		Remarks
1	January	Week 5	Use piezometer to measure pressure at a given point.		
2	February	Week 1	Use U tube differential manometer to measure pressure difference between two given points.		
		Week 2	Find the resultant pressure and its position for given situation of liquid in a tank.		
		Week 3	Revision		
		Week 4	Use Reynold's apparatus to determine type of flow.		
3	March	Week 1	Use Bernoulli's apparatus to apply Bernoulli's theorem to get total energy line for a flow in a closed conduit of varying cross sections.		
		Week 2	Determine minor losses in pipe fittings due to sudden contraction and sudden enlargement.		
		Week 3	Revision		
		Week 4	Determine minor losses in pipe fitting due to Bend and Elbow.		
4	April	Week 1	Calibrate Venturimeter to find out the discharge in a pipe.		
		Week 2	Calibrate the Orifice to find out the discharge through a tank.		
		Week 3	Revision		
		Week 4	Use Current meter to measure the velocity of flow of water in open channel.		
		Week 5	Use Pitot tube to measure the velocity of flow of water in open channel.		
5	May	Week 1	Revision		
		Week 2	Use triangular notch to measure the discharge through open channel.		
		Week 3	Use Rectangular notch to measure the discharge through open channel.		
		Week 4	Revision		
		Week 5	Revision		

  
**Signature of Teacher**  
 (Er. Parveen Kumar)

  
**Signature of H.O.D**  
 (Er. Adit Rana)



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Department of Civil Engineering				
Lesson Plan w.e.f 27/01/2024 to 25/05/2024				
Name of Subject:-		Advanced Surveying Lab		Session:- Jan-May 2025
Name of Teacher:-		Er Neha Thakur		Semester:- 4 <sup>th</sup> Semester
Designation:-		Lecturer (Civil Engg)		Scheme:- N-2022
Sr No	Month	Week	Contents	Remarks
1	January	Week 5	Use plane table survey to prepare plans of a plot of seven-sided closed traverse by Radiation Method.	
2	February	Week 1	Use plane table survey to prepare plans, locate details by Intersection Method.	
		Week 2	Use plane table survey to prepare plans, locate details by Traversing Method.	
		Week 3	Use plane table survey to carry out Survey Project for closed traverse for minimum five sides around a	
		Week 4	Use transit theodolite to measure Horizontal and Vertical angle by Direct Method.	
3	March	Week 1	Plot the traverse on A1 size imperial drawing sheet for the collected data from preceding Theodolite Survey	
		Week 2	Use Theodolite as a Tacheometer to compute reduced levels and horizontal distances.	
		Week 3	Set out a circular curve by Rankine's Method of Deflection Angles.	
		Week 4	Use micro-optic Theodolite to Measure Horizontal angle by Direct Method.	
4	April	Week 1	Use EDM to measure horizontal distance.	
		Week 2	Use Total station instrument to measure horizontal distances.	
		Week 3	Use Total station instrument to measure vertical angle.	
		Week 4	Use Total station instrument to carry out Survey Project for closed traverse for minimum five sides.	
		Week 5	Plot the traverse on A1 size imperial drawing sheet for the collected data from preceding Total Station Survey Project.	
5	May	Week 1	Use GPS to locate the coordinates of a station.	
		Week 2	House Test	
		Week 3	Revision	
		Week 4	Revision	
		Week 5	Revision	

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Signature of H.O.D  
(Er Adit Rana)

**Government Polytechnic Kullu at Seobagh Distt Kullu H.P. 175138**

**Department of Civil Engineering**

**Lesson Plan w.e.f 27/01/2024 to 25/05/2024**

Name of Subject:- **Building Planning & Drawing Lab**      Session:- **Jan-May 2025**  
 Name of Teacher:- **Er Neha Thakur**      Semester:- **4<sup>th</sup> Semester**  
 Designation:- **Lecturer (Civil Engg)**      Scheme:- **N-2022**

Sr No	Month	Week	Contents	Remarks
1	January	Week 5	Draw various types of lines, graphical symbols for materials, doors and windows, symbols for sanitary, water supply and electrical installations and write abbreviations as per IS 962.	
2	February	Week 1	Draw various types of lines, graphical symbols for materials, doors and windows, symbols for sanitary, water supply and electrical installations and write abbreviations as per IS 962.	
		Week 2	Draw line plan to suitable scale (1BHK, staircase, WC and Bathroom)	
		Week 3	Draw line plan to suitable scale (1BHK, staircase, WC and Bathroom)	
		Week 4	Draw line plans to suitable scale for the following Public Buildings (School Building and Community Hall).	
3	March	Week 1	Draw line plans to suitable scale for the following Public Buildings (School Building and Community Hall).	
		Week 2	Draw line plans to suitable scale for the following Public Buildings (School Building and Community Hall).	
		Week 3	<b>Class Test -I</b>	
		Week 4	Draw submission drawing to the scale 1:100 of a single storey load bearing residential building (2BHK) with flat Roof and staircase showing a. Developed plan and elevation b. Section passing through Stair or W.C. and Bath c. Foundation plan and schedule of openings. d. Site plan (1:200), area statement, construction notes.	
	April	Week 1	Draw submission drawing to the scale 1:100 of a single storey load bearing residential building (2BHK) with flat Roof and staircase showing a. Developed plan and elevation b. Section passing through Stair or W.C. and Bath c. Foundation plan and schedule of openings. d. Site plan (1:200), area statement, construction notes.	
		Week 2	Draw submission drawing, to the scale of 1:100, of (G+1) Framed Structure Residential Building (2BHK) with Flat Roof and staircase showing: a. Developed plan b. Elevation. c. Section passing through Staircase, WC and Bath d. Site plan (1:200) and area statement e. Schedule of openings and Construction Notes.	
		Week 3	<b>Class Test -II</b>	



4		Week 4	Draw submission drawing, to the scale of 1:100, of (G+1) Framed Structure Residential Building (2BHK) with Flat Roof and staircase showing: a. Developed plan b. Elevation. c. Section passing through Staircase, WC and Bath d. Site plan (1:200) and area statement e. Schedule of openings and Construction Notes.	
		Week 5	Draw working drawing for above mentioned drawing at serial number 5 showing: a. Foundation plan to the scale 1:50 b. Detailed enlarged section of RCC column and footing with plinth filling. c. Detailed enlarged section of RCC Beam, Lintel and Chajjas.	
5	May	Week 1	Draw working drawing for above mentioned drawing at serial number 5 showing: a. Foundation plan to the scale 1:50 b. Detailed enlarged section of RCC column and footing with plinth filling. c. Detailed enlarged section of RCC Beam, Lintel and Chajjas.	
		Week 2	<b>House Test</b>	
		Week 3	Draw the above-mentioned drawing at serial number 5 using CAD software and enclose the printout. a. Developed plan b. Elevation. c. Section passing through Staircase, W.C. and Bath d. Foundation plan. e. Site plan (1:200), area statement, Schedule of openings and construction notes.	
		Week 4	Draw the above-mentioned drawing at serial number 5 using CAD software and enclose the printout. a. Developed plan b. Elevation. c. Section passing through Staircase, W.C. and Bath d. Foundation plan. e. Site plan (1:200), area statement, Schedule of openings and construction notes.	
		Week 5	Draw the above-mentioned drawing at serial number 5 using CAD software and enclose the printout. a. Developed plan b. Elevation. c. Section passing through Staircase, W.C. and Bath d. Foundation plan. e. Site plan (1:200), area statement, Schedule of openings and construction notes.	

Signature of Teacher  
(Er Neha Thakur)

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(Er Adit Rana)

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Department of Civil Engineering					
Lesson Plan w.e.f 27/01/2025 to 29/05/2025					
Name of Subject:-		Engineering Geology		Session:-	Jan-May 2025
Name of Teacher:-		Er Neha Thakur		Semester:-	6th Semester
Designation:-		Lecturer (Civil Engg)		Scheme:-	N-2022
Sr No	Month	Week	Contents		Remarks
1	January	Week 5	<b>Unit I: Introduction.</b> Introduction and branches of Geology, Importance of Engineering Geology.		
2	February	Week 1	Scope of engineering geology: Geology in construction jobs, Geology in water resource development, Geology in town and regional planning.		
		Week 2	<b>Unit II: The Earth</b> A brief account of theory of origin of Earth. Size, Shape, mass, density.		
		Week 3	Atmosphere of Earth. Internal structure and chemical composition of Earth.		
		Week 4	<b>Unit II: General Geology</b> Geological work of atmosphere (rock Weathering) types and effect.		
3	March	Week 1	Geological works of rivers, wind, glaciers as agents of erosion, transportation and deposition		
		Week 2	Resulting Features and Importance in Engineering.		
		Week 3	<b>Class Test -I</b>		
		Week 4	<b>Unit III: Study of rocks</b> Types of rocks (Igneous, Sedimentary & Metamorphic rocks): Their composition and engineering importance..		
4	April	Week 1	Engineering properties of rocks as material for construction: building stones, properties and important building stones.		
		Week 2	Building stone as road material, quality of aggregate, common road aggregate		
		Week 3	<b>Class Test -II</b>		
		Week 4	<b>Unit IV: Structural Geology</b> Dip and strike, apparent dip and true dip.		
		Week 5	Folds, elements of fold, types of fold, causes of folding, Fault terminology, classification of faults. Significance of faults.		
5	May	Week 1	<b>Unit V: Geological investigations</b> Introduction and objective of geological investigations		
		Week 2	<b>House Test</b>		
		Week 3	Methods of geological investigations, Geophysical investigations		
		Week 4	Seismic method of investigation, Gravitational method		
		Week 5	<b>Revision</b>		

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