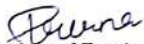


Department of Civil Engineering
Government Polytechnic Lahaul & Spiti at Udaipur Camp at Sundernagar Distt Mandi (H.P) -175018
Lesson Plan for Technical Communication (Semester-6th) Session:(27th Jan- 29 May 2025)

S.No.	MONTH	WEEK	DATE	CONTENTS	REMARKS
1	Jan	Week 5	27,28,30,31	Unit 1 Fundamentals of Technical Communication: Language as a tool of Communication, Features of Technical Communication, Distinction between General and Technical Communication	
2	Feb	Week 1	3,4,6,7	Channels of Communication at workplace: Downward, Upward, Lateral or Horizontal, Diagonal, Grapevine; Consensus Barriers to Communication and overcoming barriers	
		Week 2	10,11,13,14		
		Week 3	17,18,20,21	Unit:2 Technical Writing: Types of Technical writing Drafting skills: Agenda and Minutes of Meetings, Official and Business Correspondence	
		Week 4	24,25,27,28	Different formats of Report writing	
3	Mar	Week 1	3,4,6,7	Basics of Grammar: Spotting errors in sentences (Noun, Pronoun, Verb, Adverb, Adjective, Preposition, Conjunction, Article, Modals, Tenses, Punctuation), Resume Writing and Covering letter	
		Week 2	10,11,13		Class Test-1
		Week 3	17,18,20,21		
		Week 4	24,25,27,28	Unit 3. Presentation Skills: Concept and Significance of Presentation skills, Steps of an Effective Presentation	
4	April	Week 1	1,3,4	Elements of Effective Presentation skills, including public speaking: Clarity of substance, Emotion, Humour, Overcoming Fear, Confident speaking, Audience Analysis and Retention of audience interest; How to Improve Presentation Skills	
		Week 2	7,8,10,11		
		Week 3	17		Class Test-2
		Week 4	21,22,24,25	Unit 4 Speaking skills: What are Speaking Skills and Characteristics of a Good Speech, What is Panel Discussion and its procedure, Job Interview Skills: What to do Before, After and During Interview	
		Week 5	28		
5	May	Week 1	1,2		
		Week 2	5,6,8,9	HOUSE-TEST	
		Week 3	13,15,16	Body Language: Examples and their Meanings-Positive and Negative; Body language for interviews; Difference between Etiquettes and Manners; Table Etiquettes, Business Etiquettes, Telephone Etiquettes, Dressing Etiquettes and Workplace Etiquettes; How to get along with opposite Gender	
		Week 4	19,20,22,23	What are the elements of Voice Modulation (Quality, Pitch, Rhythm, Volume, Pace, Intonation, Pronunciation, Articulation, stress & accent); Tips for better Voice modulation	
		Week 5	26,27		


Signature of Teacher
(Ms Prerna Sharma)


Signature of HOD
Dr. Lalit Goel

Department of Civil Engineering
Government Polytechnic Lahaul & Spiti at Udaipur Camp at Sundernagar Distt Mandi (H.P) -175016

Lesson Plan for Indian Constitution (Semester-6th) Session:(27th Jan- 29 May 2025)					
S.No.	MONTH	WEEK	DATE	CONTENTS	REMARKS
1	Jan	Week 5	27,30	Unit 1: Introduction to Constitution History of making of the Indian Constitution. Meaning and importance of the Constitution	
2	Feb	Week 1	3,6	Salient features and Preamble of Indian Constitution	
		Week 2	10,13	Fundamental rights- meaning and limitations	
		Week 3	17,20	Directive principles of state policy and Fundamental duties -their enforcement and their relevance	
		Week 4	24,27	Unit 2 Union Government: Structure of Union Government	
3	Mar	Week 1	3,6	Union Executive- President, Vice-president, Prime Minister, Council of Ministers	
		Week 2	10,13	Union Legislature- Parliament and Parliamentary proceedings.	
		Week 3	17,20	Union Judiciary-Supreme Court of India – composition and powers and function.	Class Test-1
		Week 4	24,27	Unit 3 State and Local Governments: Structure of State Government. State Executive- Governor, Chief Minister, Council of Ministers.	
4	April	Week 1	3	State Legislature-State Legislative Assembly and State Legislative Council.	
		Week 2	7,10	State Judiciary-High court	
		Week 3	17	Class Test-2	
		Week 4	21,24	Local Government-Panchayat raj system with special reference to 73rd and Urban, Local Self Govt. with special reference to 74th Amendment	
		Week 5	28	Unit 4 Election provisions, Emergency provisions, Amendment of the constitution: Election Commission of India-composition, powers and functions and electoral process.	
5	May	Week 1	1	HOUSE-TEST	
		Week 2	5,8		
		Week 3	15	Types of emergency-grounds, procedure, duration and effects.	
		Week 4	19,22	Amendment of the constitution- meaning, procedure and limitations.	
		Week 5	26	Revision	


Signature of Teacher
(Ms Prema Sharma)


Signature of HOD
Dr. Lalit Goel

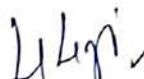
Government Polytechnic Lahaul Spiti at Udaipur Camp at Sundernagar Distt Mandi (H.P) -175018
Department of Civil Engineering

Lesson Plan for Public Health Engg. (Semester-6th) Session: (Jan-May) 2025

S. No.	MONTH	WEEK	Date	CONTENTS	REMARKS
1	January	Week 5	27,30,31	Water supply schemes - Objectives, components, Sources of water: Surface and Subsurface sources of water, Intake Structures, Definition and types, Factors governing the location of an intake structure, Types of intakes.	
2	February	Week 2	3,6,7	Demand of water: Factors affecting rate of demand, Variations of water demands, forecasting of population, Methods of forecasting of population, (Simple problems on forecasting of population), Design period, estimating of quantity of water supply required for city or town.	
		Week 3	10,13,14	Quality of water: Need for analysis of water, Characteristics of water- Physical, Chemical and Biological tests.	
		Week 4	17,20,21	Purification of Water: Objectives of water treatment, Aeration- objects and methods of aeration, Plain sedimentation, Sedimentation with coagulation, principles of coagulation, types of coagulants, Jar Test, process of coagulation	
		Week 5	24,27,28	Filtration - mechanization of filtration, classification of filters: slow sand filter, rapid sand filter, pressure filter.	
3	March	Week 2	3,6,7	Construction and working of slow sand filter and rapid sand filter, operational problems in filtration.	
		Week 3	10,13	Chlorination Application of chlorine, forms of chlorination, types of chlorination practices, residual chlorine and its importance, Flow diagram of water treatment plants	Class Test-I
		Week 4	17,20,21	Conveyance: Types of Pipes used for conveyance of water, choice of pipe material, Types of joints & Types of valves- their use, location and function on a pipeline	
		Week 5	24,27,28	Distribution of water: Methods of distribution of water- Gravity, pumping, and combined system, Service reservoirs - functions and types, Layouts of distribution of Water-Dead end system,	
4	April	Week 1	3,4	grid iron system, circular system, radial system; their suitability, advantages, and disadvantages	

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4	April	Week 2	7,10,11	Building Sanitation; Necessity of sanitation, Necessity to treat domestic sewage, Definitions - Sewage, Sullage, types of sewage, Definition of the terms related to Building Sanitation- Water pipe, Rainwater pipe, Soil pipe, Sullage pipe, Vent pipe		
		Week 3	17	Systems of Sewerage and Sewer Appurtenances:		Class Test-II
		Week 4	21,24,25	Types of Sewers, Systems of sewerage, self- cleansing velocity and non-scouring velocity, Laying, Testing and maintenance of sewers, Manholes and Drop Manhole-component parts, location, spacing, construction details, Sewer Inlets, Street Inlets.		
		Week 5	28	Analysis of sewage: Characteristics of sewage, B.O.D., C.O.D. and its significance. Central Pollution Control Board Norms for discharge of treated sewage.		
5	May	Week 1	1,2	Objects of sewage treatment and flow diagram of conventional sewage treatment plant.		
		Week 2	5,8,9	House Test		
		Week 3	15,16	Treatment of Sewage: Screening, Types of screens, Grit removal, Skimming, Sedimentation of sewage,		
		Week 4	19,22,23	Aerobic and anaerobic process, Sludge digestion, trickling filters, Activated sludge process, Disposal of sewage, Oxidation Pond, Oxidation ditch. Septic tank		
		Week 5	26	Septic tank		

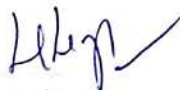

 Signature of Teacher
 (Er Nawang Negi)


 Signature of H.O.D
 (Dr. Lalit Goel)

Government Polytechnic Lahaul Spiti at Udaipur Camp at Sundernagar Distt Mandi (H.P) -175018
Department of Civil Engineering

Lesson Plan for Public Health Engg. Lab G-I (Semester-6th) Session: (Jan-May) 2025

S. No.	MONTH	WEEK	Date	CONTENTS	REMARKS
1	January	Week 5	31	Determine pH value of given sample of water.	
2	February	Week 2	7	Determine the turbidity of the given sample of water.	
		Week 3	12	Determine residual chlorine in a given sample of water	
		Week 4	21	Checking of files and viva	
		Week 5	28	Determine suspended, dissolved solids and total solids of given sample of water.	
3	March	Week 2	7	Determine the dissolved oxygen in a sample of water	
		Week 4	21	Checking of files and viva	
		Week 5	28	Undertake a field visit to water treatment plant and prepare a report	
4	April	Week 1	4	Determine the optimum dose of coagulant in a given raw water sample by jar test.	
		Week 2	11	Checking of files and viva	
		Week 4	25	Draw sketches of various valves used in water supply pipeline	
5	May	Week 1	2	Draw a sketch of one pipe and two pipe system of plumbing	
		Week 2	9	House Test	
		Week 3	16	Prepare a report of a field visit to sewage treatment plant	
		Week 4	23	Checking of files and viva	


Signature of Teacher
 (Er Nawang Negi)

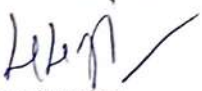

Signature of H.O.D
 (Dr. Lalit Goel)

Government Polytechnic Lahaul Spiti at Udaipur Camp at Sundernagar Distt Mandi (H.P) -175018

Department of Civil Engineering

Lesson Plan for Public Health Engg. Lab G-II (Semester-6th) Session: (Jan-May) 2025

S. No.	MONTH	WEEK	Date	CONTENTS	REMARKS
1	February	Week 1	1	Determine pH value of given sample of water.	
		Week 3	15	Determine the turbidity of the given sample of water.	
		Week 4	22	Determine residual chlorine in a given sample of water	
2	March	Week 1	1	Checking of files and viva	
		Week 3	15	Determine suspended, dissolved solids and total solids of given sample of water.	
		Week 4	22	Determine the dissolved oxygen in a sample of water	
		Week 5	29	Undertake a field visit to water treatment plant and prepare a report	
3	April	Week 1	5	Checking of files and viva	
		Week 3	19	Determine the optimum dose of coagulant in a given raw water sample by jar test.	
		Week 4	26	Draw sketches of various valves used in water supply pipeline	
4	May	Week 1	3	Draw a sketch of one pipe and two pipe system of plumbing	
		Week 3	17	Prepare a report of a field visit to sewage treatment plant	
		Week 4	24	Checking of files and viva	


Signature of Teacher
(Er Nawang Negi)

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Signature of H.O.D
(Dr. Lalit Goel)

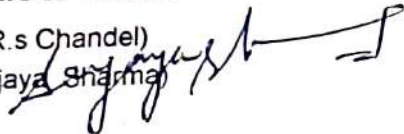
Department of Civil Engineering
Government Polytechnic Lahaul & Spiti at Udaipur Camp at Sundernagar Distt Mandi (H.P) -175018

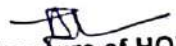
Lesson Plan for Design of Steel Structures Lab (Semester-6th) Session:(27th Jan- 29 May 2025)

S.No.	MONTH	WEEK	DATE	CONTENTS	REMARKS
1	Jan	Week 5	28,29	1. Draw any five commonly used rolled steel sections and five built up sections.	
2	Feb	Week 2	4,5	2. Details of splicing for steel columns of Same width	
		Week 3	11	Different widths	
		Week 4	18,19	do	
		Week 5	25	3. Beam to beam connections Seated Connections	
3	Mar	Week 2	4,5	do	Class Test-1
		Week 3	11,12	Framed Connections	
		Week 4	18,19	4. Beam to column	
		Week 5	25,26	5. Column bases	
4	April	Week 1	1,2	Seated Connections	Class Test-2
		Week 2	8,9	Framed Connections	
		Week 3	16	Slab base	
		Week 4	22,23	Gusseted base	
		Week 5	30	do	
5	May	Week 2	6,7	House Test	
		Week 3	13,14	6. Steel roof truss with details of joints Heel Joint	
		Week 4	20,21	Ridge Joint	
		Week 5	27,28	do	

Signature of Teacher

(Er. R.s Chandel)
(Er. Sujaya Sharma)




Signature of HOD
Dr. Lalit Goel

Department of Civil Engineering
Government Polytechnic Lahaul & Spiti at Udalpur Camp at Sundernagar Distt Mandi (H.P) -176018
Lesson Plan for Design of Steel Structures (Semester-6th) Session: (27th Jan- 29 May 2025)

S.No.	MONTH	WEEK	DATE	CONTENTS	REMARKS
1	Jan	Week 5	28,29	Unit I Structural Steel and Sections Terminology, Properties of structural steel as per IS Code, grades of steel, Designation of structural steel sections as per IS handbook and IS 800	
2	Feb	Week 2	4,5	Classification of sections in Limit State Method	
		Week 3	11	Unit II Bolted Connections (LSM) Types of Bolts (Theory only),	
		Week 4	18,19	Forces in Bolts. Types of Bolted joints with Sketches (Butt Joint and Lap Joint), Terminology & IS 800 Provisions for Gauge, Pitch, End &	
		Week 5	25	Edge Distance, Patterns of Bolting (Chain, Diamond, Staggered) Gross and net cross-sectional area of bolted members	
3	Mar	Week 2	4,5	Design of bolted connections & Efficiency of a joint. (Numerical problems on Ordinary Bolts only).	
		Week 3	11,12	Unit III Welded Connections (LSM) Introduction, advantages, and disadvantages of welded joint, defects in welds, Types of welds and their symbols.	
		Week 4	18,19	Terminology & IS 800 provisions for Size, Throat Thickness, End Returns etc. Longitudinal, Transverse & Intermittent welds.	Class Test-1
		Week 5	25,26	Design of fillet weld (Plate section, Single & Double Angle Section) and butt welds subjected to axial load. (Descriptive No numerical on plug and slot welds).	
4	April	Week 1	1,2	Unit IV Tension Members (LSM) Introduction to tension members, Types of section used in axial tension. Gross and net cross-sectional area of tension members (Numerical problems on Plate & Angles Sections only).	
		Week 2	8,9	Analysis & Design of tension member with welded and bolted connections (Plate, Single & Double Angle Sections only) (Theory only)	
		Week 3	16	Introduction to Lug Angle and Tension splice.	Class Test-2
		Week 4	22,23	Unit V Compression Members (LSM) Types of sections used, Effective length, Radius of gyration, slenderness ratio and its limit, Buckling Class, Effective length.	
		Week 5	30	Analysis and Design of axially loaded welded and bolted connections using tables and	
5	May	Week 2	6,7	House Test	
		Week 3	13,14	Equations of IS 800 (I-Section, Double Angle Section and Single angle section).	
		Week 4	20,21	Unit VI Beams (LSM) Introduction, Different steel sections used, Simple and built-up sections, Plastic Hinge, Plastic section Modulus, Class of Section.	
		Week 5	27,28	Design of simple I section -Check for shear only (Low Shear & High Shear).	

Signature of Teacher
(Er. R.s Chandel)


Signature of HOD
 Dr. Lalit Goel

GOVT POLYTECHNIC LAHAUL & SPITI at Udaipur ,camp at Sundornagar,Distt. Mandi(HP)

LESSON PLAN (BoM)

Name of the Teacher -Manisha Pathanla

Branch: Civil. Engg. (Jan 2025 -May2025) Sem:-6th

Month	Week	Date	Name of the Chapter	Contents to be taught	HOD Signaturo	Remarks
Jan	1st	28th,29th, 31st	Introduction to Management	Definitions and concept of Management.Functions of management- planning, organizing, staffing,		
Feb	2nd	1st,4th,5th, 7th	Introduction to Management	coordinating and controlling,Various areas of management.Structure of an Organization.		
	3rd	11th,14th, 15th	Self-Management and Development	Life Long Learning Skills. Concept of Personality Development, Ethics and Moral values.		
	4th	18th,19th, 21st,22nd	Self-Management and Development	Concept of Physical Development; Significance of health, hygiene, body gestures. Time Management Concept and its importance.		
	5th	25th,28th, 1st Mar.	Self-Management and Development	Intellectual Development: Reading skills, speaking, listening skills,writing skills (Note taking, rough draft, revision, editing and final drafting),		
March	6th	4th,5th,7th	Leadership and motivation	Concept of Critical Thinking and Problem Solving (approaches, steps and cases)		
	7th	11th,12th, 15th	Leadership and motivation	Meaning and importance,types of leadership and qualities of a good leader,Concept and importance of motivation		
	8th	18th,19th, 21st,22nd	Leadership and motivation	CT-1, drives and incentives,types of motivation		
	9th	25th,26th, 28th,29th	Legal Environment and Business	Various labour Laws and its necessity,Salient features of Income tax act		

April	10th	1st,2nd,4th , 5th	Legal Environment and Business	Computation of income tax on salary income,Sales and Excise Tax Act-VAT and Excise duty and Factory Act. 1948
	11th	8th,9th,11th	Legal Environment and Business	Labour welfare schemes including wage payment- types,system of wage payment and incentives
	12th	16th ,19th	Legal Environment and Business	CT-2,Revision
	13th	22nd,23rd, 25th,26th	Legal Environment and Business	Intellectual Property rights (IPR)-Concepts ,infringements,remediesrelated to patents
May	14th	30th,2nd,3rd	Legal Environment and Business	copy rights,trademarks and designs,Accident and safety -Meaning and concept of accident and safety
	15th	6th,7th,9th	Legal Environment and Business	House Test
	16th	13th,14th, 16th,17th	Legal Environment and Business/Total Quality Management	causes , safety precautions and various measures after accidents,Meaning and concept of Total quality management,
	17th	20th,21st, 23rd,24th	Total Quality Management	various factors/measures to achieve TQM in an organization,Standards and codes-National and international
	18th	27th,28th	Total Quality Management	Revision

Subject-Teacher:- Manisha Pathania

HOD

Department of Civil Engineering
Government Polytechnic Lahaul Spiti at Udaipur Camp At Sundernagar Distt Mandi (H.P) -175018

Lesson Plan for Entrepreneurship and Start-Ups (Semester-6th)Session: 2025

S.No.	MONTH	WEEK	Date	CONTENTS	REMARKS
1	JAN	Week 5	27,29,30,31	Introduction to Entrepreneurship and Start-Ups, Definitions, Traits of an entrepreneur, Intrapreneurship, Motivation	
2	FEB	Week 1	3,5,6,7	Types of Business Structures, Similarities/differences between entrepreneurs and managers	
		Week 2	10,13,14	– Business Ideas and their implementation Discovering ideas and visualizing the business	
		Week 3	17,19,20,21	Activity map & Business Plan	
		Week 4	24,27,28	Idea to Start-up Market Analysis–Identifying the target market	
3	MARCH	Week 1	3,5,6,7	Competition evaluation and Strategy Development,	
		Week 2	10,12,13	Marketing and accounting,	
		Week 3	17,19,20,21	Management ,Risk analysis CLASS TEST-I	
		Week 4	24,26,27,28	Company's Organization Structure,	
4	APRIL	Week 1	2,3,4	Company's Organization Structure, Recruitment and management of talent	
		Week 2	7,9,10,11	Financial organization and management	
		Week 3	16,17	CLASS TEST-II	
		Week 4	21,23,24,25	Financing and Protection of Ideas Financing methods available for start-ups in India	
		Week 5	28,30	Communication of Ideas to potential investors–Investor Pitch	
5	MAY	Week 1	1,2	Communication of Ideas to potential investors–Investor Pitch	
		Week 2	5,7,8,9	HOUSE TEST	
		Week 3	14,15,16	Exit strategies for entrepreneurs	
		Week 4	21,22,23	bankruptcy, and succession and harvesting strategy	
		Week 5	26,28	succession and harvesting strategy	


Signature of Teacher
 (Er Pawan Kumar)


Sign of HOD (Civil Engg.)
 Dr. Lalit Goel

GOVT. POLYTECHNIC LAHAUL & SPITI AT UDAIPUR CAMP AT SUNDER NAGAR, MANDI H. P.

LESSON PLAN 6th SEMESTER CIVIL ENGG

Month	Date	week	activity
January	27	5	race 100m 200m
February			
1	3	1	high jump
2	10	2	high jump
3	17	3	long jump
4	24	4	long jump
March			
1	3	1	kabddi
2	10	2	Declamation
3	17	3	do
4	24	4	shot put boys
April			
1	7	2	Shot put girl
2	21	4	Quiz comption
3	28	5	Discus throw
May			
1	5	2	Discus throw
2	19	4	jawlin throw
3	26	5	writing comption


Signature of Teacher


Signature of HOD