Department of Civil Engineering Dr B.R.Ambedkar Government Polytechnic Amboda Distt Una (H.P.)

S.No.	MONTH	WEEK	CONTENTS	REMARKS
1	January	Week-5	Water supply schemes - Objectives, components, 27 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	
		.Week-1	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-2	Quality of water: Need for analysis of water, Characteristics of water- Physical, Chemical and Biological tests.	D D
2	February	Week-3	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-4	Filtration - mechanization of filtration, classification of filters: slow sand filter, rapid sand filter, pressure filter. Construction and working of slow sand filter and rapid sand filter, operational problems in filtration.	
e T		Week-5	Disinfection: Objects, methods of disinfection, Chlorination Application of chlorine, forms of chlorination, types of chlorination practices, residual chlorine and its importance, Flow diagram of water treatment plants	
		Week-1	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-2	Distribution of water: Methods of distribution of water- Gravity, pumping, and combined system, Service reservoirs - functions and types	
3	March	Week-3	Layouts of distribution of Water-Dead end system, grid iron system, circular system, radial system; their suitability, advantages, and disadvantages.	Class Test
		Week-4	Building Sanitation: Necessity of sanitation, Necessity to treat domestic sewage, Definitions - Sewage, Sullage, types of sewage.	
		Week-5	Definition of the terms related to Building Sanitation- Water pipe, Rainwater pipe, Soil pipe, Sullage pipe, Vent pipe.	U
		Week-1	Systems of Sewerage and Sewer Appurtenances: Types of Sewers, Systems of sewerage, self- cleansing velocity and non-scouring velocity,	
4	April	Week-2	Laying, Testing and maintenance of sewers, Manholes and Drop Manhole-component parts, location, spacing, construction details, Sewer Inlets, Street Inlets.	
		Week-3	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	Class Test
		Week-4	Objects of sewage treatment and flow diagram of conventional sewage treatment plant.	-
		Week-5	Treatment of Sewage: Screening, Types of screens, Grit removal, Skimming,	
		Week-1	Sedimentation of sewage, Aerobic and anaerobic process, Sludge digestion, trickling filters,	
		Week-2	HOUSE TEST	
5	May	Week-3	Activated sludge process, Disposal of sewage,	
		Week-4	Oxidation Pond, Oxidation ditch. Septic tank.	
			Oxidation Fond, Oxidation artern depth and	

Signature of Peacher (Er Chetan Mandela) Signature of H.O.D (Er Chetan Mandela)

Department of Civil Engineering Dr. B. R. Ambedkar Govt. Polytechnic Ambota, District Una (H.P.)

Lesson Plan for Design Of Steel Structure (Semester-6th) Session: (Feb - May, 2025)

- Control	A Commence of the Commence of		Lesson Plan for Design Of Steel Structure (Semester-oth) Session. (Peb - May, 2023)	
5.	MONTH	WEEK	CONTENTS	REMA
	January	Week-5	Terminology, Properties of structural steel as per IS Code, grades of steel, Designation of structural steel sections as per IS handbook and IS: 800. Classification of sections in Limit State Method.	
		Week-1	Types of Bolts (Theory only), Forces in Bolts, Types of Bolted joints with Sketches (Butt Joint and Lap Joint), Terminology & IS 800 Provisions for Gauge, Pitch, End & Edge Distance, Patterns of Bolting (Chain, Diamond, Staggered).	-
		Week-2	Gross and net cross-sectional area of bolted members. Design of bolted connections & Efficiency of a joint. (Numerical problems on Ordinary Bolts only).	
2	February	Week-3	Gross and net cross-sectional area of bolted members. Design of bolted connections & Efficiency of a joint. (Numerical problems on Ordinary Bolts only).	
		Week-4	Introduction, advantages, and disadvantages of welded joint, defects in welds, Types of welds and their symbols. Terminology & IS 800 provisions for Size, Throat Thickness, End Returns etc. Longitudinal, Transverse & Intermittent welds.	Ŋ
		Week-1	Design of fillet weld (Plate section, Single & Double Angle Section) and butt weld subjected to axial load. (Descriptive No numerical on plug and slot welds).	
		Week-2	Design of fillet weld (Plate section, Single & Double Angle Section) and butt weld subjected to axial load. (Descriptive No numerical on plug and slot welds).	10
3	March	Week-3	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).	Class
	1	Week-4	Analysis & Design of tension member with welded and bolted connections (Plate, 40 Single & Double Angle Sections only). Introduction to Lug Angle and Tension splice.	
	T.	Week-5	Analysis & Design of tension member with welded and bolted connections (Plate, 40 Single & Double Angle Sections only). Introduction to Lug Angle and Tension splice.	
	1	Week-1	Types of sections used, Effective length, Radius of gyration, slenderness ratio and its limit, Buckling Class, Effective length	
		Week-2	Analysis and Design of axially loaded welded and bolted connections using tables and Equations of IS 800 (I-Section, Double Angle Section and Single angle section)	
4	April	Week-3	Analysis and Design of axially loaded welded and bolted connections using tables and Equations of IS 800 (I-Section, Double Angle Section and Single angle section)	Class
		Week-4	Introduction, Different steel sections used, Simple and built-up sections,	
		Week-5	Plastic Hinge, Plastic section Modulus, Class of Section	
		Week-1	Design of simple I section -Check for shear only (Low Shear & High Shear).	
		Week-2	HOUSE TEST	1
5	May	Week-3	Design of simple I section -Check for shear only (Low Shear & High Shear).	
	1	Week-4	REVISION	
	(a)	Week-5	REVISION	

Monthly Review By HOD

Feburary

March

LESSON PLAN

Program Name	DIPLOMAIN CIVIL ENGG. , EU
course/Subject Name	Technical Communication
Course/Subject Code	ASOE302
course/Subject Coordinator Name	Renu Patial
Course Category	Open Elective

Evaluation scheme

S.N	subject Name	Study	Marks in evaluation scheme						
0.	-	Scheme (Hrs./Week)	Internal Assessme	ent	External Assessment				
			Theory Practical		Theory	Practical			
1.	Technical Communicatio n	Th-3; DCS-1	40		60				
Refe	Reference books:			Technical Communication- Principles and Practice by Meenakshi Raman & Sangeeta Sharma					
			2. https://www.skillsyouneed.com/quiz/343479						
			3.https://indeed.com/career-advice/career-dev elopment/project- management-report 4. https://whatfix.com/blog/ technical -writing-examples/						
			5. https://virtualspeech.com/blog/technical-presentation						
	The second second		6. Csikszentmihalyi. Flow: The psychology of						

Canfield, jack at al. Chicken soup For the
unsinkable Soul, Backlist LLC, 2012

Course Outcomes: At the end of the course students will be able to:

CO1	Adapt, accept and adjust to the physical and emotional changes in one's own self and influence others positively.
CO2	Classify the correct usage of English Grammar in writing and speaking.
CO3	Develop the various written communication strategies

CO4	Demonstrate the use of verbal and non-verbal Communication in academic and non-academic platforms.
CO5	Demonstrate appropriate communication behaviour to enhance self -representation.

Teaching Plan:

Lecture No.	Name of topic	Proposed Date	Actual date	Remarks
1	Unit- 1 Fundamentals of Technical Communication Introduction of the syllabus Language as tool of communication	27.01.2025		
2	Feature of communication	28.01.2025	,	
. 3	Distinction between General and Technical Communication	29.10.2025		
4	Channels of communication at workplace: Downward, Upward and lateral or horizontal	30.01.2025		
5	Diagonal, Grapevine, consensus	03.02.2025		

6	Barriers to communication	04.02.2025	The second secon	
7	Overcoming the barriers	05.02.2025		
8	Unit-2 Technical writing Types of Technical Writing	06.02.2025		
9	Drafting Skills: Agenda and minutes of meeting	10.02.2025 11.02.2025		
10	Official Correspondence	13.02.2025		
11	Business Correspondence	17.02.2025		
12	Different formats of Report writing	18.02.2025 19.02.2025		
13	Basics of Grammar: Sporting errors In Noun , Pronoun, Verb	20.02.2025 24.02.2025		
14	Adverb, Adjective, Preposition	25.02.2025 27.02.2025		
15	Preposition ,Conjunction,	03.03.2025 04.03.2025		
16	Article, Modals	05.03.2025 06.03.2025		
17	Tenses, Punctuation	6,7,11.03.2 025		
18	Resume writing	12.03.2025		
19	Covering letters	13,03.2025		
20	Unit-3 Presentation Skills Concept and significance of Presentation skills	17.03.2025 18.03.2025		
21	Concept and significance of Presentation skills	19.03.2025 20.03.2025		

42	E	Business Etiquettes	01.05.2025	
43	74	Γéléphone Étiquettes	05.05.2025	
44	I	Dressing Etiquettes	06.05.2025	
• 45	1	Workplace Étiquettes	07.05.2025	
46		Definition Of Voice Modulation	08.05.2025	
47		Elements of voice modulation	13.05.2025	
48	3	Quality, Pitch, Rhythm, Volume	14.05.2025	
49	9	Volume ,Pace , Intonation,	15.05.2025	
5	0	Articulation, & Stress	19.05.2025	
5	51	Accent	20.05.2025	
	52	Tips for better voice modulation	21.05.2025	
	53	Tips for better voice modulation	22.05.2025	
	54	Revision	26.05.2025	
	45 V 46 E 47 E 48 E 50 E 51 E 52 E 53 E 54 E 55	Revision	27.05.2025	
	56	Revision	28.05.2025	

Dr. B.R. Ambedkar Govt. Polytechnic, Ambota Una (H.P.) Department of Civil Engineering LESSON PLAN

ogram Name	Diploma in Architecture Assistantship
purse/Subject Name	Sustainable Development
ourse/Semester	N-2022 / 6 th
ourse/Subject Co-ordinator Name	Amandeep Singh

Evaluation Scheme

Sr. No.	Subject Name		Study	Scheme		Ev	aluatio	on Sche	me		
		L	DCS	Total	Internal Assessment			External Assessment			Total Marks
	Sustainable Development	3	1	4 Hrs./week	Th.	Pr.	T	Th.	Hrs.	T	(Int. & Ext.)
					40	(E)	40	60	3	100	100
Reference Books		Sus	stainable os://www	Building, Desi v.un.org/sustair	gn Manı nabledev	ıal –Volelopmen	-1,2. — 7 t/sustair	TERI Pre	ss. 2. velopment	-goals/	

Teaching Plan

Unit No.	Name of Topic	Week	Actual Date	Kemarks
	Introduction to Sustainable Development: Glimpse into	1 st Week		
1	History and Current practices - Broad introduction to SD - its importance, need, impact and implications;	(27/01/2025- 01/02/2025)	į.	
	definition coined: evolution of SD perspectives (MDGs	2 nd Week	St.	
-1	AND SDGs) over the years; recent debates;	(03/02/2025- 10/02/2025)		
	1987 Brundtland Commission and outcome; later UN	3 rd Week		
	summits (Rio summit, etc.) and outcome.	(11/02/2025-		
	Summes (1992 2009)	18/02/2025)		-
7.5	Ecosystem & Sustainability:	4 th Week	Charles 1	
2	Fundamentals of ecology - types of ecosystems	(19/02/2025-		
_	9-intervalationships	25/02/2025)		
		5 th Week		
2	rectoration - developmental needs.	(27/02/2025-		
4	to sustainability & its factors, requirements for	05/03/2025)		1

Return de	sustainability:			100
	food security and agriculture, renewable resources - water	6 th Week		
,	and energy, non- renewable resources, factors and trade-	(06/03/2025-		
	offs,	13/03/2025)		
	Sustainability conflicts, a conceptual framework for	7 th Week		
2	linking sustainability and sustainable development.	(15/03/2025-		
4	12	21/03/2025)		
	Gauging Sustainable Development - Sustainability and	8 th Week		
3	development indicators and SDGs, UN's outlook of	(22/03/2025-		
S	sustainable development and efforts,	28/03/2025)		
	UN SDGs - structure, governance and partnerships;	9 th Week		
3	construction, governance and parameternities,	(29/03/2025-		
2		05/04/2025)		
	communities / society: ensuring resilience and primary	10 th Week		
3	needs in society; biosphere: development	(07/04/2025-		
.)	within planetary boundaries	16/04/2025)		
	Strengthening institutions for sustainability; shaping a	11 th Week		
2	sustainable economy.	(17/04/2025-		
3	sustainable decitority.	24/04/2025)		
	Case Studies & Projects on Rural Sustainable			
	Development (Indian village perspectives) -	12 th Week		
4	Village resources (broad perspectives); current challenges	(25/04/2025-		
9	and thematic areas;	02/05/2025)		
	village social hierarchy; village economy; needs of	13 th Week		
4	present and future generation;	(03/05/2025-		
н	present and rattire generalism,	09/05/2025)		
	conflicts - sustainability and rural culture & tradition;	14 th Week		
4	connects - sustainating	(13/05/2025-		
+		19/05/2025)		
	achieving sustainable development goals - bridging	15 th Week		
4	conflicts and way forward	(20/05/2025-		
4	conflicts and way for	26/05/2025)		
-	Devision	14 th Week		
	Revision	(13/05/2024-		
		18/05/2024)		
	D. C.	15 th Week	4.	
	Revision	(20/05/2024-		
		28/05/2024)		

Assignments

As	signment	Contents of Syllabus Covered	Proposed Week	Actual Date	Remar
	Serial				
	A-1	Unit 1- Introduction to Sustainable Development: Glimpse into History and Current practices, Unit 2 - Ecosystem & Sustainability:	6 th Week		

Λ-2	Unit – 3 Gauging Sustainable Development Unit – 4 Case Studies & Projects on Rural Sustainable Development (Indian village perspectives)	13 th Week	
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House Test/Class Test

Name of Test	Contents of Syllabus Covered	Proposed Week	Actual Date	Rema
Class Test 1	Unit 1- Introduction to Sustainable Development: Glimpse into History and Current practices, Unit 2 - Ecosystem & Sustainability:	3 rd Week of March 2025		
Class Test 2	Unit – 3 Gauging Sustainable Development Unit – 4 Case Studies & Projects on Rural Sustainable Development (Indian village perspectives)	3 rd Week of April 2025		
House Test	Unit 1- Introduction to Sustainable Development: Glimpse into History and Current practices, Unit 2 - Ecosystem & Sustainability Unit - 3 Gauging Sustainable Development Unit - 4 Case Studies & Projects on Rural Sustainable Development (Indian village perspectives)	2 nd Week of May 2025		

Signature of HOD

Signature of Teacher

Department of Civil Engineering Dr B.R.Ambedkar Government Polytechnic Ambota Distt Una (H.P.)

Lesson Plan for Public Health Engineering (Semester-6th) Session: (Feb-June 2025)

	WEEK	CONTENTS	
MONTH	WEEK		REMARKS
January	Week-5	History of making of the Indian Constitution.	
	Week-I	Meaning and importance of the Constitution. Salient features and Preamble of Indian Constitution.	
	Week-2	Fundamental rights- meaning and limitations. Directive principles of state policy and Fundamental duties -their enforcement and their relevance	
February	Week-3	and Parliamentary proceedings	
	Week-4		
	Week-5	Union Judiciary-Supreme Court of India - composition and powers and function.	
	Week-1	Structure of State Government. 8 . 2 . 2 State Judiciary-High court. 2	
	Week-2		
March	Week-2	State Executive- Governor, Chief Minister, Council of Ministers	Class Test -I
	Week-	State Legislature-State Legislative Assembly and State Legislative Council	Ciass To-
		Local Government-Panchayat raj system with special reference to 73rd and 67ban Escarence	
	Week-	reference to 74th Amendment. Election Commission of India-composition, powers and functions and electoral process. Types of emergency-grounds, procedure, duration and effects. Amendment of the constitution-meaning, procedure and limitations.	
	Week	1 Election Commission of India-composition, powers and functions and electoral process. ☑ T☑	
	Weel	and functions and electoral process.	Class Test -II
April			Class rest-tr
	Wee	ypes of emergency-grounds, procedure, duration and effects.	
	Wee		
	Wed	Amendment of the constitution- meaning	
	We	k-1 Amendment of the constitution- meaning	
	We	k-2 HOUSE TEST	
Ma	We	k-3 Ammendment procedure and limitations.	
Ma		Ammendment procedure and limitations.	
	We	ek-5 Revision	1

Signature of Teacher

Signature of H.O.D (Chetan mandela)

Department of Civil Engineering

Dr B.R.Ambedkar Government Polytechnic Ambota Distt Una (H.P.)

MO	HTM	WEE	К	CONTENTS	REMARKS
	nuary	Wee	k-5 Det	ermine pH value of given sample of water.	
11	-	Wee		cking of files	
		Wee	ek-2	etermine the turbidity of the given sample of water.	
Fe	bruary	We		ecking of files	
1		We	eek-4	etermine residual chlorine in a given sample of water	
		w		necking of files	
+		W	eek-1	Determine suspended, dissolved solids and total solids of given sample of water.	
1		V		checking of files	Class Test -
	Marc	h	Neek-3	Determine the dissolved oxygen in a sample of water	Class rest
N.	SELIN			checking of files	
			Week-5	Undertake a field visit to water treatment plant and prepare a report	
			Week-1	checking of files	
			Weėk-2	Determine the optimum dose of coagulant in a given raw water sample by jar test	Class Test
4	A	oril	Week-3	and the second s	
			Week-	. Draw sketches of various valves used in water supply pipeline	
			Week-	5 checking of files	
5	1		Week-	Draw a sketch of one pipe and two pipe system of plumbing	
			Week		To a second
	5	May	Week	Гериго .	
			Week	checking of files	A
		A Training	Weel	K-5	5

Signature Weacher

(Er Chetan Mandela)

(Er Chetan Mandela)

Department of Civil Engineering Dr. B. R. Ambedkar Govt. Polytechnic Ambota, District Una (H.P.)

Lesson Plan for Design Of Steel Structure Lab (Semester-6th) Session: (Feb - May, 2025)

MONTH WEEK			CONTENTS	REMARKS	
January		Veek-5	Draw	any five commonly used rolled steel sections and five built up sections.	
	٧	Veek-1	Detail	ils of splicing for steel columns of Same width	
	1	Week-2	Detai	ils of splicing for steel columns of Different width. Checking of Sheets	
February	ary Week-3		Deta	ails of splicing for steel columns of Different width	4
		Week-4	Bear	am to beam connections Seated Connections. Checking of Sheets	1
	1	Week-1	Bea	am to beam connections Seated Connections	
		Week-2	Bea	am to beam connections Framed Connections. Checking of Sheets	
March	1	Week-3		eam to beam connections Framed Connections	Class Test -l
line.	+	Week-4		eam to Column connections Seated Connections.Checking of Sheets	
		Week-5	5 Be	Beam to Column connections Seated Connections	
7	1310	Week-	-1 E	Beam to Column connections Framed Connections. Checking of Sheets	
		Week	-	Beam to Column connections Framed Connections	Class Test -II
4 A	pril	Week		Column Base: Slab Base. Checking of Sheets	
4		Week	k-4	Column Base: Slab Base	
		Wee	k-5	Column Base: Gusseted Base.Checking of Sheets	
		Wee	ek-1	Column Base: Gusseted Base. Checking of Sheets	
			ek-2	HOUSE TEST	
-	May	We	ek-3	Steel roof truss with details of joints Heel Joint.	
5	lii~,		eek-4	Steel roof truss with details of joints Ridge Joint.Checking of Sheets	
		We	eek-5	Revision	
		7			
Mont	hly R	Review By H	100		7
Feb	urary				
	arch				

Pyg

April

May

Signatura of H.C (Er Chetan Mand