6th Sem.

Dr. B.R. Ambedkar Govt. Polytechnic, Ambota Una (H.P.)

Department of Civil Engineering

LESSON PLAN

Program Name	Diploma in Architecture Assistantship
Course/Subject Name	Sustainable Development
Course/Semester	N-2022 / 6th
Course/Subject Co-ordinator Name	Amandeep Singh

Evaluation Scheme

Sr. No.	Subject Name	Study Scheme			Evaluation Scheme						
					Internal Assessment			External Assessment			Total Marks (Int. & Ext.)
		L	DCS	Total	Th.	Pr.	T	Th.	Hrs.	T	
1	Sustainable Development	3	1	4 Hrs./week							
					40	-	40	60	3	100	100
Reference Books		Sustainable Building, Design Manual –Vol-1,2. – TERI Press. 2. https://www.un.org/sustainabledevelopment/sustainable-development-goals/									

Teaching Plan

Unit No:	Name of Topic	Proposed Week	Actual Date	Remarks
1	**Introduction to Sustainable Development: Glimpse into History and Current practices -** Broad introduction to SD - its importance, need, impact and implications;	1st Week (27/01/2026-02/02/2026)		
1	definition coined; evolution of SD perspectives (MDGs AND SDGs) over the years; recent debates;	2nd Week (03/02/2026-09/02/2026)		
1	1987 Brundtland Commission and outcome; later UN summits (Rio summit, etc.) and outcome.	3rd Week (10/02/2026-17/02/2026)		
2	**Ecosystem & Sustainability:** Fundamentals of ecology - types of ecosystems &interrelationships	4th Week (18/02/2026-24/02/2026)		
2	Factors influencing sustainability of ecosystems, ecosystem restoration - developmental needs. Introduction to sustainability & its factors, requirements for sustainability:	5th Week (25/02/2026-03/03/2026)		
2	food security and agriculture, renewable resources - water and energy, non- renewable resources, factors and trade-offs,	6th Week (05/03/2026-11/03/2026)		
2	Sustainability conflicts, a conceptual framework for linking sustainability and sustainable development.	7th Week (12/03/2026-19/03/2026)		
3	**Gauging Sustainable Development** - Sustainability and development indicators and SDGs, UN's outlook of sustainable development and efforts,	8th Week (20/03/2026-28/03/2026)		
3	UN SDGs - structure, governance and partnerships;	9th Week (30/03/2026-06/04/2026)		
3	communities / society: ensuring resilience and primary needs in society; biosphere: development within planetary boundaries	10th Week (07/04/2026-16/04/2026)		
3	Strengthening institutions for sustainability; shaping a sustainable economy.	11th Week (17/04/2026-23/04/2026)		
4	**Case Studies & Projects on Rural Sustainable Development (Indian village perspectives) -** Village resources (broad perspectives); current challenges and thematic areas;	12th Week (24/04/2026-30/04/2026)		

4	village social hierarchy; village economy; needs of present and future generation;	13th Week (02/05/2026-08/05/2026)		
4	conflicts - sustainability and rural culture & tradition;	14th Week (11/05/2026-16/05/2026)		
4	achieving sustainable development goals - bridging conflicts and way forward	15th Week (18/05/2026-23/05/2026)		
	Revision	16th Week (25/05/2026-26/05/2026)		

Assignments

Assignment Serial	Contents of Syllabus Covered	Proposed Week	Actual Date	Remarks
A-1	Unit 1- Introduction to Sustainable Development: Glimpse into History and Current practices, Unit 2 - Ecosystem & Sustainability:	6th Week		
A-2	Unit – 3 Gauging Sustainable Development Unit – 4 Case Studies & Projects on Rural Sustainable Development (Indian village perspectives)	13th Week		

House Test/Class Test

Name of Test	Contents of Syllabus Covered	Proposed Week	Actual Date	Remarks
Class Test 1	Unit 1- Introduction to Sustainable Development: Glimpse into History and Current practices, Unit 2 - Ecosystem & Sustainability:	2nd Week of March 2026		
Class Test 2	Unit – 3 Gauging Sustainable Development Unit – 4 Case Studies & Projects on Rural Sustainable Development (Indian village perspectives)	2nd Week of April 2026		
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)	2nd Week of May 2026		

Signature of HOD

Signature of Teacher

DEPARTMENT OF CIVIL ENGINEERING

DR.B.R.AMBEDKAR GOVT.POLYTECHNIC AMBOTA,UNA(H.P)

LESSON PLAN FOR DESIGN OF STEEL STRUCTURE (SEMESTER-6TH)SESSION: (JAN. - MAY. , 2026)

Sr. No.	MONTH	WEEK	CONTENTS	REMARKS
1	January	Week 5 (27 Jan. - 31 Jan.)	**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	Feburary	Week 1 (2 Feb. - 7 Feb.)	Classification of sections in Limit State Method. **Bolted Connections (LSM) :**Types of Bolts (Theory only), Forces in Bolts, Types of Bolted joints with Sketches (Butt Joint and Lap Joint)	
		Week 2 (9 Feb. - 13 Feb.)	Terminology & IS 800 Provisions for Gauge, Pitch, End & Edge Distance, Patterns of Bolting (Chain, Diamond, Staggered).	
		Week 3 (16 Feb. - 21 Feb.)	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 (23 Feb. - 28 Feb.)	**Welded Connections (LSM):** 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.	
3	March	Week 1 (2 Mar. - 7 Mar.)	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 (9 Mar. - 13 Mar.)	**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).	**CLASS TEST - I**
		Week 3 (16 Mar. - 20 Mar.)	(Numerical problems on Plate & Angles Sections only).	
		Week 4(23 Mar. - 28 Mar.)	Analysis & Design of tension member with welded and bolted connections (Plate, Single & Double Angle Sections only).	
		Week 5(30 Mar. - 31 Mar.)	Introduction to Lug Angle and Tension splice. (Theory only)	
4	April	Week 1 (1 Apr. - 4 Apr.)	**Compression Members (LSM) :** Types of sections used, Effective length, Radius of gyration, slenderness ratio and its limit, Buckling Class, Effective length.	
		Week 2 (6 Apr. - 10 Apr.)	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 TEST - II**
		Week 3 (13 Apr. - 18 Apr.)	Analysis and Design of axially loaded welded and bolted connections using tables and Equations of IS 800 (Double Angle Section and Single angle section).	
		Week 4 (20 Apr. - 25 Apr.)	**Beams (LSM):** Introduction, Different steel sections used,	
		Week 5 (27 Apr. - 30 Apr.)	Simple and built-up sections, Plastic Hinge, Plastic section Modulus, Class of Section.	
5	May	Week 1 (2 May. - 8 May.)	Design of simple I section -Check for shear only (Low Shear & High Shear).	
		Week 2 (11 May. - 16 May.)	**HOUSE TEST**	
		Week 3 (18 May. - 23 May.)	Design of simple I section -Check for shear only (Low Shear & High Shear).	
		Week 4 (25 May. - 27 May.)	Revision	

Signature of Faculty
(Er. Manoj Kumar)

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

Monthly Review by HOD :

Sr. No.	Review for the month of	Date	Comments by HOD	Remarks
1	Feburary			
2	March			
3	April			
4	May			

DEPARTMENT OF CIVIL ENGINEERING

DR.B.R.AMBEDKAR GOVT.POLYTECHNIC AMBOTA,UNA(H.P)

LESSON PLAN FOR DESIGN OF STEEL STRUCTURE LAB (SEMESTER-6TH)SESSION: (JAN. - MAY. , 2026)

Sr. No.	MONTH	WEEK	CONTENTS	REMARKS
1	January	Week 5 (27 Jan. - 31 Jan.)	Draw any five commonly used rolled steel sections and five built up sections.	
2	Feburary	Week 1 (2 Feb. - 7 Feb.)	Draw any five commonly used rolled steel sections and five built up sections. Checking of Sheets & Viva	
		Week 2 (9 Feb. - 13 Feb.)	Details of splicing for steel columns of : Same width & Different widths. Checking of Sheets & Viva	
		Week 3 (16 Feb. - 21 Feb.)	Details of splicing for steel columns of : Same width & Different widths. Checking of Sheets & Viva	
		Week 4 (23 Feb. - 28 Feb.)	Beam to beam connections : Seated Connections & Framed Connections. Checking of Sheets & Viva	
3	March	Week 1 (2 Mar. - 7 Mar.)	Beam to beam connections : Seated Connections & Framed Connections. Checking of Sheets & Viva	
		Week 2 (9 Mar. - 13 Mar.)	Beam to beam connections : Seated Connections & Framed Connections. Checking of Sheets & Viva	CLASS TEST - I
		Week 3 (16 Mar. - 20 Mar.)	Beam to column : Seated Connections & Framed Connections. Checking of Sheets & Viva	
		Week 4(23 Mar. - 28 Mar.)	Beam to column : Seated Connections & Framed Connections. Checking of Sheets & Viva	
		Week 5(30 Mar. - 31 Mar.)	Beam to column : Seated Connections & Framed Connections. Checking of Sheets & Viva	
4	April	Week 1 (1 Apr. - 4 Apr.)	Checking of Sheets & Viva	
		Week 2 (6 Apr. - 10 Apr.)	Column bases : Slab base & Gusseted base. Checking of Sheets & Viva	CLASS TEST - II
		Week 3 (13 Apr. - 18 Apr.)	Column bases : Slab base & Gusseted base. Checking of Sheets & Viva	
		Week 4 (20 Apr. - 25 Apr.)	Column bases : Slab base & Gusseted base. Checking of Sheets & Viva	
		Week 5 (27 Apr. - 30 Apr.)	Steel roof truss with details of joints: Heel Joint. Checking of Sheets & Viva	
5	May	Week 1 (2 May. - 8 May.)	Checking of Sheets & Viva	
		Week 2 (11 May. - 16 May.)	HOUSE TEST	
		Week 3 (18 May. - 23 May.)	Steel roof truss with details of joints: Ridge Joint. Checking of Sheets & Viva	
		Week 4 (25 May. - 27 May.)	Checking of Sheets & Viva	

Signature of Facility
(Er. Manoj Kumar)

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

Monthly Review by HOD :

Sr. No.	Review for the month	Date	Comments by HOD	Remarks
1	Feburary			
2	March			
3	April			
4	May			

LESSON PLAN

6th Sem

Program Name	DIPLOMA IN Civil Engg.
Course/Subject Name	Essence Of Indian Knowledge & Tradition
Course/Subject Code	AU202
Course/Subject Coordinator Name	Swati Bhardwaj

Evaluation scheme

S.No.	Subject Name	Study scheme (Hrs/Week)	Marks in evaluation scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	Essence Of Indian Knowledge & Tradition	2 hrs (Th)	40	-	60	-

Reference books:

(1)Cultural Heritage of India- Course Material by V. Sivaramkrishna Bhartiya

(2)Modern Physics and Vedant by Swami Jitatmanand Bhartiya

(3)Essence Of Indian Knowledge & Tradition by Renu Patial,Neetu Thakur and Abhishek Saklani, Eagle Prakashan

(4)Science of consciousness Psychotherapy and Yoga Practice by RN Jha, Vidya Nidhi Prakashan

(5)Himachal Pradesh History, Culture and Economy by Mian Goverdhan Singh and Dr. C.L. Gupta.

Course Outcomes: After the completion of the course the students will be able to:

CO1	Identify the concept of Indian Knowledge system
CO2	Understand the need and importance of protecting traditional knowledge.
CO3	Compare the Indian traditional knowledge and modern science
CO4	Understand the use of Yoga in stress management ,mental health,mindfulness, healthy eating, weight loss and quality sleep
CO5	Aware of the general knowledge of Himachal Pradesh

Lecture No.	Name of topic	Proposed Date	Actual Date	Remarks
1	**Unit-1 Indian knowledge System** Introduction and function of Indian knowledge system	27/01/2026		
2	The Basic Structure of Indian knowledge system The 4 Vedas Rigveda, Yajurveda, Samaveda, Atharvaveda	02/02/2026		
3	The 4 Up Vedas Ayurveda(health -care) Dhanurveda(archery) Gandharva Veda veda(dance , music etc.) and Sthapatya veda (architecture)	03/02/2026		
4	The 6 Vedagangs, Shiksha, Kalpa, Vyakarana, Chhandas ,Nirukta, and Jyotisha.	09/02/2026		
5	Itihasa Ramayana and Mahabharata) and Purana Vishnu Purana, Bhagavata Purana	10/02/2026		
6	DharmaShastra,Manusmriti, Yajnavalkya-smriti etc.	16/02/2026		
7	Darshan	17/02/2026		
8	Nayaya (Logic and Epistemology)	23/02/2026		
9	**Unit- 2 Modern Science** Modern Science: Introduction, Characteristics, importance and Example	24/02/2026		
10	Difference between modern Science and Indian knowledge system	02/03/2026		
11	Role of IKS in modern Science	03/03/2026		
12	**Unit-3 Traditional Knowledge** Definition, nature,characteristics, scope and importance	09/03/2026		
13	**CLASS TEST -I**	10/03/2026		
14	Indigenous knowledge(IK); characteristics	16/03/2026		
15	Traditional Knowledge vis-à-vis indigenous knowledge	17/03/2026		

	Traditional Knowledge vs western knowledge	23/03/2026		
17	The Need for protecting traditional knowledge	24/03/2026		
18	**Unit-4 Yoga and Holistic Health Care** Meaning and importance of yoga	30/03/2026		
19	Yoga and spiritual health,Yoga and social approach	31/03/2026		
20	**CLASS TEST -II**	07/04/2026		
21	Introduction to Ashtanga yoga, Yogic kriyas(Shat karma)	20/04/2026		
22	Pranayam and it types;Active lifestyle and stress management through yoga	21/04/2026		
23	Physical Fitness, health and wellness: meaning and importance of wellness	27/04/2026		
24	Components of wellness, health and physical fitness	28/04/2026		
25	Traditional sports & Regional Games for promoting wellness	04/05/2026		
26	Leadership through physical activity and sport; Introduction to First Aid	05/05/2026		
27	**Unit-5 Himachal Pradesh : A Basic Information** History, Culture,Heritage/Tradition,customs and mannersRegional knowledge, geographical features, constitutional History	19/05/2026		
28	Tourism Places & scope, Festival and Fairs	25/05/2026		

LESSON PLAN

Program Name	DIPLOMA IN CIVIL ENGG.
course/Subject Name	**Technical Communication**
Course/Subject Code	ASOE302
course/Subject Coordinator Name	Renu Patial
Course Category	Open Elective

Evaluation scheme

S.No.	subject Name	Study Scheme (Hrs./Week)	Marks in evaluation scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	Technical Communication	Th-3; DCS-1	40	--	60	--
Reference books:			1. Technical Communication- Principles and Practice by Meenakshi Raman & Sangeeta Sharma			
			2. https://www.skillsyouneed.com/quiz/343479			
			3.https://indeed.com/career-advice/career-development/project- management-report			
			4. https://whatfix.com/blog/ technical -writing-examples/			

	5. https://virtualspeech.com/blog/technical-presentation
	6. Csikszentmihalyi. Flow: The psychology of Optimal Experience. Harper perennial Modern Classics
	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 platform.
CO5	Demonstrate appropriate communication behaviour to enhance self - representation.

Teaching Plan:

Lecture No.	Name of topic	Proposed Date	Actual date	Remarks
1	**Unit- 1Fundamentals of Technical Communication** Introduction of the syllabus Language as tool of communication	27.01.2026		
2	Feature of communication	28 &28.01.2026		

3	Distinction between General and Technical Communication	29.01.2026		
4	Channels of communication at workplace: Downward, Upward and lateral or horizontal	31.01.2026		
5	Diagonal, Grapevine, consensus	04.02.2026		
6	Barriers to communication	04.02.2026		
7	Overcoming the barriers	07.02.2026		
8	**Unit-2 Technical writing** Types of Technical Writing	11.02.2026		
9	Drafting Skills: Agenda and minutes of meeting	11.02.2026 12.02.2026		
10	Official Correspondence	18.02.2026		
11	Business Correspondence	19.02.2026		
12	Different formats of Report writing	21.02.2026 25.02.2026		
13	Basics of Grammar: Sporting errors In Noun , Pronoun, Verb	25.02.2026 26.02.2026		
14	Adverb, Adjective, Preposition	28.02.2026 28.02.2026		
15	Preposition ,Conjunction,	05.03.2026		

30	Characteristics of good Speech	09.04.2026		
31	What is Panel Discussion	16.04.2026		
32	Procedures of panel discussion	18.04.2026		
33	Job Interview Skills: What to do before interview	22.04.2026		
34	What to do after interview	22.04.2026		
35	What to do during interview	23.04.2026		
36	Body Language	25.04.2026		
37	Examples and meaning of body language	29.04.2026		
38	Positive and negative(Gestures and Postures)	29.04.2026		
39	Body language for interview	30.04.2026		
40	Difference Between Etiquettes and manners	02.05.2026		
41	Table Etiquettes	06.05.2026		
42	Business Etiquettes	06.05.2026		
43	Telephone Etiquettes	07.05.2026		
44	Dressing Etiquettes	13.05.2026		
45	Workplace Etiquettes	13.05.2026		
46	Definition Of Voice Modulation	13.05.2026		

Civil Engg.

Department of ~~Elex. & Comm.~~ Engg.

LESSON PLAN

Program Name	Diploma in ~~Electronics & Communication~~ Engg.
Course/Subject Name	Entrepreneurship and Start-ups
Course/Subject Code	HS302
Course/Subject Co-Ordinator Name	Renu Patial

Evaluation Scheme

Sr. no.	Subject Name	Study scheme (Hrs/Week)	Marks in Evaluation Scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1	Entrepreneurship and Start-ups	Theory- 4 / week	40	40	60	60
Reference Books		The Startup Owner's Manual: The Step-by-Step Guide for Building a Great Company by Steve Blank and Bob Dorf				
		The Lean Startup: How Today's Entrepreneurs use Continuous Innovation to Create Radically Successful Businesses by Eric Ries				
		The Innovator's Dilemma: The Revolutionary Book that will Change the Way You do Business by Clayton M. Christensen				

Course Outcomes (COs)

C.O. 1	Understanding the dynamic role of entrepreneurship and small businesses
C.O.2	Organizing and Managing a Small Business, Financial Planning and Control
C.O.3	Forms of Ownership for Small Business, Strategic Marketing Planning
C.O.4	New Product or Service Development

Teaching Plan

S.N.	Name of Topic	Proposed Date	Actual Date	Remarks
1	**UNIT 1 – Introduction to Entrepreneurship**	27.01.2026		
2	Entrepreneurship and Start–Ups Definitions	29.01.2026		
3	Traits of an entrepreneur	30.01.2026		
4	Traits of an entrepreneur	31.01.2026		
5	Intrapreneurship	03.02.2026		
6	Motivation	05.02.2026		
7	Motivation	06.02.2026		
8	Types of Business Structures	07.02.2026		
9	Types of Business Structures	10.02.2026		
10	Similarities between entrepreneurs and managers.	12.02.2026		
11	Differences between entrepreneurs and managers.	13.02.2026		
12	**UNIT 2 –Introduction to Business Ideas**	17.02.2026		
13	Implementation of business ideas	19.02.02026		
14	Discovering ideas	20.02.2026		
15	Visualizing the business	21.02.2026		
16	Activity map	24.02.2026		
17	Structuring and managing Business Processes	26.02.2026		

18	Business Plan	27.02.2026		
19	Business Plan	28.02.2026		
20	**UNIT 3 – Introduction to Start - up**	03.03.2026		
21	Idea to Start -up			
22	Market Analysis–Identifying the target market	05.03.2026		
23	Identifying the target market	06.03.2026		
24	Competition evaluation	07.03.2026		
25	Strategy Development	10.03.2026		
26	Strategy Development	13.03.2026		
27	Strategy Development	17.03.2026		
28	Marketing and accounting	19.03.2026		
29	Interconnection between Marketing and accounting	20.03.2026		
30	Risk analysis	24.03.2026		
31	**UNIT 4 – Introduction to Management**	27.03.2026		
32	Company's Organization Structure	28.03.2026		
33	Hierarchy Company's Organization Structure	31.03.2026		
34	Recruitment of talent	02.04.2026		
35	Management of talent	04.04.2026		
36	Financial organization	07.04.2026		
37	Key functions of financial organization	09.042026		
38	Management	10.04.2026		
39	Management	16.04.2026		
40	Management	17.04.2026		
41	Management	18.04.2026		
42	**UNIT 5 - Financing and Protection of Ideas**	21.04.2026		
43	Protection of Ideas	23.04.2026		
44	Financing methods available for start-ups in India	24.04.2026		
45	Financing methods	25.04.2026		
46	Communication of Ideas to potential investors	28.04.2026		
47	Communication of Ideas to potential investors	30.04.2026		
48	Investor Pitch	02.05.2026		
49	Patenting and Licenses	05.05.2026		
50	Patenting and Licenses	07.05.2026		
51	UNIT 6 –Exit strategies for entrepreneurs, succession and harvesting strategy.	08.05.2026, 12.05.2025		
52	Exit strategies for entrepreneurs	14.05.2026,		
53	bankruptcy	15,16.05.2026		
54	Succession – key aspects, Challenges of Succession	19,21.05.2026		
55	Benefits of effective Succession planning	22,23.05.2026		
56	Harvesting strategy	26.05.2026		

Assignments:

6th Semester

LESSON PLAN

Course Title: Indian Constitution
Duration: 27 January 2026 – May 2026
Total Units: 4

JANUARY – FEBRUARY 2026

UNIT – 1: Introduction to Constitution

Duration: 27 Jan – 21 Feb 2026 (4 Weeks)

Week	Topics to be Covered
Week 1 (27 Jan – 31 Jan)	• History of making of the Indian Constitution • Constituent Assembly – role and significance
Week 2 (2 Feb – 7 Feb)	• Meaning and importance of the Constitution • Salient features of Indian Constitution
Week 3 (9 Feb – 14 Feb)	• Preamble – philosophy, objectives and values
Week 4 (16 Feb – 21 Feb)	• Fundamental Rights – meaning, types and limitations • Directive Principles of State Policy • Fundamental Duties – enforcement and relevance

Teaching Methods: Lecture, discussion, case studies
Outcome Covered: CO 1, CO 2

FEBRUARY – MARCH 2026

UNIT – 2: Union Government

Duration: 23 Feb – 21 Mar 2026 (4 Weeks)

Week	Topics to be Covered
Week 5 (23 Feb – 28 Feb)	• Structure of Union Government
Week 6 (2 Mar – 7 Mar)	• Union Executive – President & Vice-President
Week 7 (9 Mar – 14 Mar)	• Prime Minister and Council of Ministers • Union Legislature – Parliament
Week 8 (16 Mar – 21 Mar)	• Parliamentary proceedings • Union Judiciary – Supreme Court (composition, powers & functions)

Teaching Methods: Lecture, PPT, current affairs examples
Outcome Covered: CO 3

MARCH – APRIL 2026

UNIT – 3: State and Local Governments

Duration: 23 Mar – 18 Apr 2026 (4 Weeks)

Week	Topics to be Covered
Week 9 (23 Mar – 28 Mar)	• Structure of State Government
Week 10 (30 Mar – 4 Apr)	• State Executive – Governor, Chief Minister, Council of Ministers
Week 11 (6 Apr – 11 Apr)	• State Legislature – Legislative Assembly & Legislative Council • State Judiciary – High Court
Week 12 (13 Apr – 18 Apr)	• Local Government – Panchayati Raj (73rd Amendment) • Urban Local Self Government (74th Amendment)

Teaching Methods: Lecture, charts, comparative analysis
Outcome Covered: CO 3

APRIL – MAY 2026

UNIT – 4: Election, Emergency & Amendment Provisions

Duration: 20 Apr – 10 May 2026 (3 Weeks)

Week	Topics to be Covered
Week 13 (20 Apr – 25 Apr)	• Election Commission of India – composition, powers & functions • Electoral process
Week 14 (27 Apr – 2 May)	• Emergency provisions – National, State & Financial Emergency
Week 15 (4 May – 10 May)	• Amendment of the Constitution – meaning, procedure & limitations

Teaching Methods: Lecture, discussion, constitutional case references
Outcome Covered: CO 4

MAY 2026

Revision & Evaluation

- Unit-wise revision.
- Internal assessment / assignments
- Model question paper discussion

Course Outcomes Mapping (Summary):

- **CO1:** Understanding significance of Indian Constitution
- **CO2:** Awareness of rights and duties
- **CO3:** Analysis of Union, State & Local Governments
- **CO4:** Understanding Elections, Emergency & Amendments

Week	Topics Covered	Teaching Method	Learning Outcomes
5	Objectives of water treatment, Aeration, Plain Sedimentation	PPT, Flow diagrams	Understand treatment objectives and aeration
6	Coagulation – principles, coagulants, Jar Test, Sedimentation with coagulation	Video/PPT	Explain coagulation and sedimentation
7	Filtration – Slow & Rapid Sand Filters, Disinfection, Chlorination, Flow diagram of WTP	Diagrams, Case study	Explain filtration and disinfection processes

UNIT III: Conveyance and Distribution of Water (Weeks 8–9 | 4 Hours)

Week	Topics Covered	Teaching Method	Learning Outcomes
8	Conveyance – Pipes, joints, valves (types & functions)	Chalk & Talk, Samples	Select suitable pipe materials
9	Distribution systems, Service reservoirs, Layouts (Dead end, Grid iron, etc.)	PPT, Maps	Compare distribution systems

UNIT IV: Domestic Sewage and Sewerage Systems (Weeks 10–11 | 4 Hours)

Week	Topics Covered	Teaching Method	Learning Outcomes
10	Building Sanitation – Definitions, types of sewage, sanitary pipes	Diagrams, Discussion	Understand sanitation terminology
11	Sewerage Systems, Self-cleansing velocity, Manholes, Sewer appurtenances	PPT, Sketches	Explain sewer systems and appurtenances

UNIT V: Characteristics and Treatment of Sewage (Weeks 12–14 | 6 Hours)

Week	Topics Covered	Teaching Method	Learning Outcomes
12	Sewage characteristics, BOD, COD, CPCB norms	PPT, Case study	Analyze sewage quality
13	Primary treatment – Screening, Grit chamber, Sedimentation	Flow diagrams	Describe primary treatment processes
14	Secondary treatment – Activated sludge process, Trickling filters, Septic tank, Disposal methods	PPT, Videos	Explain sewage treatment methods