

LESSON PLAN

ProgramName	DIPLOMA (Civil Engg.)
Course/Subject Name	Environmental science
Course/SubjectCode	AU(102)
Course/SubjectCoordinatorName	Ms. Swati Bhardwaj

Evaluation scheme :

S.No.	SubjectName	Study Scheme (Hrs/Week)	Marks in evaluation scheme	
			Internal Assessment	External Assessment
			Theory	Theory
1.	Environmental Science	2hr (Th)	40	60

Reference books

(i) S.C.Sharma MP.Poonia, Environmental Studies, KhannaPublishingHouse, New Delhi.

(ii) Environmental Science by Dr. Deepak Arora Edited by Shweta Khurana, Eagle Prakashan

(iii) O.P.Gupta Elements of Environmental Pollution Control, Khanna Publishing House, New Delhi

(iv) Environmental Science By Mr. Aman Saini and Manoj Kumar ,Tru Edu. Publications.

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

CO1	To solve various engineering problems applying ecosystem to produce eco-friendly products
CO2	To use relevant air and noise control methods to solve domestic and industrial problems.
CO3	To use relevant water and soil control method to solve domestic and industrial problems
CO4	To recognize relevant energy sources required for domestic and industrial applications
CO5	To Solve local solid and e-waste problems.

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

CO1	To solve various engineering problems applying ecosystem to produce eco-friendly products
CO2	To use relevant air and noise control methods to solve domestic and industrial problems.

Teaching Plan:

Lecture No.	Name of topic	Proposed Date	Actual date	Remarks
1	Unit-1 Ecosystem Structure of ecosystem, Biotic & Abiotic components Food chain and food web	28.01.2026		
2	Aquatic (Lentic and Lotic) and terrestrial ecosystem Carbon, Nitrogen, cycle	29.01.2026		
3	Sulphur, Phosphorus cycle	04.02.2026		
4	Global warming -Causes, effects, process Green House Effect, Ozone depletion.	05.02.2026		
5	Unit- 2 Air and, Noise Pollution Definition of pollution and pollutant, Natural and manmade sources of air pollution (Refriger- ants, I.C., Boiler),	11.02.2026		
6	Air Pollutants: Types, Particulate Pollutants: Effects	12.02.2026		
7	Control of air pollution(Bag filter, Cyclone separator, Electrostatic Precipitator).	18.02.2026		
8	Gaseous Pollution Control: Absorber, Catalytic Converter, Effects of air pollution due to Refrigerants, I.C., Boilers, effects,	19.02.2026		
9	Noise pollution: sources of pollution, measurement of pollution level, Effects of Noise pollution, Noise pollution (Regulation and Control) n, Rules, 2000 man made sources of air	25.02.2026		
10	Unit- 3 Water and Soil Pollution Sources of water pollution, Types of water pollutants; Characteristics of water pollutants: Turbidity, pH/total suspended solids, total solids BOD and COD: Definition, calculation.	26.02.2026		
11	WasteWater Treatment: Primary methods: sedimentation, froth floatation	05.03.2026		
12	Noise pollution: sources of pollution, measurement of pollution level, Effects of Noise pollution, Noise pollution (Regulation and Control) Rules, 2000	25.02.2026		
13	Unit- 3 Water and Soil Pollution Sources of water pollution, Types of	26.02.2026		

	solid waste generation- Sources and characteristics of : Municipal solid waste, E- waste, bio- medical waste. Metallic wastes and Non-Metallic wastes (lubricants, plastics, rubber) from industries			
24	Collection and disposal: MSW (3R, principles, energy recovery, sanitary landfill), Hazardous.	29.04.2026		
25	Waste Air quality act 2004, air pollution control act 1981 and water pollution and control act 1996.	30.04.2026		
26	Structure and role of Central and state pollution control board.	06.05.2026		
27	Concept of Carbon Credit, Carbon Footprint	20.05.2026		
28	Environmental management in the fabrication industry. ISO14000: Implementation in industries, and Benefits	21.05.2026		
29	Collection and disposal: MSW (3R, principles, energy recovery, sanitary landfill) Hazardous.	29.04.2026		

Assignments:

Assignments	Contents of syllabus covered	Proposed date	Actual date	Remarks
A-1	Ecosystem, Air and Noise Pollution, Water and Soil Pollution.	13.03.2026 /26.03.2026		
A-2	Renewable sources of Energy Solid Waste Management, ISO 14000 & Environmental Management	24.04.2026 /21.05.2026 20.05.2026		

House Test/Class Test:

House/Class Test	Contents of syllabus covered	Proposed Date	Actual date	Remarks
CT-I	30% of the syllabus	11.03.2026		
CT-II	Next 30% of the syllabus	08.04.2026		
House Test	80% of the syllabus	2 nd week of May, 2026		

Signature of teacher

(Swati Bhardwaj)

HOD(AS & H)

(Aman Saini)

House/Class Test	Contents of syllabus covered	Proposed Date	Actual date	Remarks
CT-I	30% of the syllabus	11.03.2026		
CT-II	Next 30% of the syllabus	08.04.2026		
House Test	80% of the syllabus	2 nd week of May, 2026		

LESSON PLAN

Program Name	CIVIL ENGG
Course/Subject Name	Applied Physics-II
Course/Subject Code	BS-104 & BS-106
Course/Subject Coordinator Name	Pritam Singh Dogra

Evaluation scheme

S.No.	Subject Name	Study scheme (Hrs/Week)	Marks in evaluation scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	Applied physics-II & Applied Physics-II lab	TH [3+1(DCS) + 2 (Lab)]	40	40	60	60

Reference books

- (i) Concepts of Physics By H C Verma
- (ii) Fundamental of Physics By Halliday/Resnick/Walker
- (iii) Text Book of Physics for Class XII

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

CO1	Describe waves and wave motion, periodic and simple harmonic motions and solve simple problems.
CO2	Explain ultrasonic waves and engineering, medical and industrial applications of Ultrasonic. Apply acoustics principles to various types of buildings for best sound effect.
CO3	Describe the refractive index of a liquid or a solid and will be able to explain conditions for total internal reflection.
CO4	Define capacitance and its unit, explain the function of capacitors in simple circuits, and solve simple problems.
CO5	Differentiate between insulators, conductors and semiconductors, and define the terms: potential, potential difference, electromotive force.
CO6	Express electric current as flow of charge, concept of resistance, measure of the parameters: electric current, potential difference, resistance.
CO7	Explain the operation of appliances like moving coil galvanometer, simple DC motors.
CO8	Illustrate the conditions for light amplification in various LASER and laser based instruments and optical devices.
CO9	Appreciate the potential of optical fiber in fields of medicine and communication.

Teaching Plan:

Course Outcome: After the completion of the course the student will be able to

L. No.	Topic Covered	Proposed Date	Actual Date	Remarks
1	UNIT -1: Wave motion and its applications: Wave motion, transverse and longitudinal waves with examples.	27/01/2026		
2	Definitions of wave velocity, frequency and wavelength and their relationship	28/01/2026		
3	Sound and light waves and their properties	30/01/2026		
4	DCS	02/02/2026		
5	Wave equation ($y = r \sin \omega t$) amplitude, phase, phase difference, Principle of superposition of waves and beat formation	03/02/2026		
6	Simple Harmonic Motion (SHM): definition, expression for displacement, velocity	04/02/2026		
7	Acceleration, time period, frequency of SHM, free, forced and resonant vibrations and their examples.	06/02/2026		
8	DCS	09/02/2026		

Teaching Plan:

L. No.	Topic Covered	Proposed Date	Actual Date	Remarks
1	UNIT -1: Wave motion and its applications: Wave motion	27/01/2026		

9	Acoustics of buildings – reverberation, reverberation time, echo, noise, coefficient of absorption of sound	10/02/2026		
10	Methods to control reverberation time and their applications.	11/02/2026		
11	Ultrasonic waves – Introduction and properties, engineering and medical applications of ultrasonic.	13/02/2026		
12	DCS	16/02/2026		
	UNIT - 2: Optics -Basic optical laws- reflection and refraction	17/02/2026		
13	Refractive index, Images and image formation by mirrors,	18/02/2026		
14	Lens and thin lenses, lens formula, power of lens, magnification	20/02/2026		
15	DCS	23/02/2026		
16	Total internal reflection, Critical angle and conditions for total internal reflection, applications of total internal reflection in optical fiber.	24/02/2026		
17	Optical Instruments- simple and compound microscope	25/02/2026		
18	Astronomical telescope in normal adjustment and their magnifying power	27/02/2026		
19	DCS	02/03/2026		
20	UNIT - 3: Electrostatics - Coulomb's law, unit of charge,	03/03/2026		
21	Electric field, Electric lines of force and their properties	06/03/2026		
22	Electric flux, Electric potential and potential difference	09/03/2026		
23	DCS	10/03/2026		
24	Gauss's law	11/03/2026		
25	Capacitor and its working, Capacitance and its units, Capacitance of a parallel plate capacitor	13/03/2026		
26	Series and parallel combination of capacitors (related numerical)	16/03/2026		
27	Dielectric and its effect on capacitance, dielectric break down	17/03/2026		
28	UNIT - 4: Current Electricity - Electric Current and its units, Direct and alternating current,	18/03/2026		
29	Resistance and its units, Specific resistance, Conductance, Specific conductance,	23/03/2026		
30	DCS	25/03/2026		
31	Series and parallel combination of resistances.	24/03/2026		
32	Factors affecting resistance of a wire, carbon resistances and colour coding, Ohm's law and its verification	25/03/2026		
33	DCS	27/03/2026		
34	Kirchhoff's laws: Concept of terminal potential difference and Electromotive force (EMF)	30/03/2026		
35	Heating effect of current, Electric power, Electric energy and its units (related numerical problems)	01/04/2026		
36	Advantages of Electric Energy over other forms of energy	06/04/2026		
37	DCS	11/03/2026		
38	UNIT - 5: Electromagnetism - Types of magnetic materials: dia, para and ferromagnetic with their properties, dielectric break down	07/04/2026		
39	Magnetic field and its units, magnetic intensity, magnetic lines of force, magnetic flux and units, magnetization	08/04/2026		
40	Lorentz force (force on moving charge in magnetic field), Force on current carrying conductor.	10/04/2026		
41	DCS	17/04/2026		
42	Moving coil galvanometer: principle, construction and working	15/04/2026		
43	Conversion of a galvanometer into ammeter and voltmeter	20/04/2026		
44	UNIT - 6: Semiconductor Physics - Energy bands in solids, Types of materials (insulator, semiconductor, conductor)	21/04/2026		
45	Kirchhoff's laws, Concept of terminal potential difference and Electromotive force (EMF)	22/04/2026		
46	Heating effect of current, Electric power, Electric energy and its	30/03/2026		
		01/04/2026		
		06/04/2026		

Assignments:

Assignment serial	Contents of syllabus covered	Proposed date	Actual date	Remarks
A-1	Wave motion and its applications & Optics	27/02/2025		
A-2	Electrostatics & Current electricity	03.04/2025		
A-3	Semiconductor & Modern Physics	08/05/2025		

House Test/Class Test:

House/Class Test	Contents of syllabus covered	Proposed date	Actual date	Remarks
CT-I	30% of the syllabus	3rd week of March 2025		
CT-II	Next 30% of the syllabus	3rd week of April 2025		
House Test	80% of the syllabus	2nd week of May 2025		

Lab Plan:

Exp. No.	Name of experiment	Proposed date		Actual Date	
		G-1	G-2	G1	G2
1	To verify laws of reflection from a plane mirror/ interface.	29/01/2026	31/01/2026		
2	To verify laws of refraction (Snell's law) using a glass slab.	05/02/2026	07/02/2026		
3	To determine focal length and magnifying power of a convex lens.	12/02/2026	14/02/2026		
4	To verify Ohm's law by plotting a graph between current and potential difference.	19/02/2026	21/02/2026		
5	To verify laws of resistances in series and parallel combination.	26/02/2026	07/03/2026		
6	To verify Kirchhoff's laws using electric circuits.	12/03/2026	14/03/2026		
7	To find resistance of a galvanometer by half deflection method.	19/03/2026	28/03/2026		
8	To convert a galvanometer into an ammeter.	02/04/2026	04/04/2026		
9	To convert a galvanometer into a voltmeter.	09/04/2026	11/04/2026		

(Signature of Teacher)

(Signature of HOD):

LESSON PLAN

Name of Branch	Civil Engg.
Course/Subject Name	Engineering Mechanics
Course/Subject Code	ES106 & ES 112
Course/Subject Coordinator Name	Er. Harnem Singh

Evaluation scheme

S.No.	Subject Name	Study scheme (Hrs/Week)	Marks in evaluation scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	Engineering Mechanics Theory & Engineering Mechanics lab	TH [3+1(DCS) + 2 (Lab)	40	40	60	60
Reference books			(i) D.S. Bedi, Engineering Mechanics, Khanna Publications, New Delhi (2008)			
			(ii) Khurmi, R.S., Applied Mechanics, S. Chand & Co. New Delhi.			
			(iii) Bansal R K, A text book of Engineering Mechanics, Laxmi Publications.			
			(iv) Ramamrutham, Engineering Mechanics, S. Chand & Co. New Delhi.			
			(v) Ram, H. D.; Chauhan, A. K., Foundations and Applications of Applied Mechanics, Cam-bridge University Press.			

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

CO1	Identify the force systems for given conditions by applying the basics of mechanics.
CO2	Determine unknown force(s) of different engineering systems.
CO3	Apply the principles of friction in various conditions for useful purposes
CO4	Find the centroid and centre of gravity of various components in engineering systems.



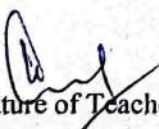
Teaching Plan:

L. No.	Topic Covered	Proposed Date	Actual Date	Remarks
1	Unit – I Basics of mechanics and force system Significance and relevance of Mechanics, Applied mechanics, Statics, Dynamics.	27/1, 28/01/26		
2	Space, time, mass, particle, flexible body and rigid body. Scalar and vector quantity, Units of measurement (SI units)	29/01/26		
3	Force – unit, representation as a vector and by Bow's notation, characteristics and effects of a force, Principle of transmissibility of force.	31/1/26		
4	Force system and its classification	3/2/26		
5	Resolution of a force - Orthogonal components of a force, moment of a force, Varignon's Theorem.	4/2/26		
6	Composition of forces – Resultant, analytical method for determination of resultant for concurrent, non-concurrent and parallel co-planar force systems	5/2/26		
7	Law of triangle, parallelogram and polygon of forces.	7/2/26		
8	Unit– II Equilibrium: Equilibrium and Equilibrant, Free body and Free body diagram, Analytical and graphical method	10/2/26		
9	Lami's Theorem – statement and explanation, Application for various engineering	11/2/26		
10	Types of beam, supports (simple, hinged, roller and fixed) and loads acting on beam (vertical point load, uniformly distributed load),	12/2/26		
11	Beam reaction for cantilever, simply supported beam with or without overhang – subjected to combination of Point load and uniformly distributed load	17/2/26		
12	Beam reaction graphically for simply supported beam subjected to vertical point loads	18/2/26		
13	Beam reaction for cantilever, simply supported beam with or without overhang – subjected to combination of Point load and uniformly distributed load	19/2/26		
14	Unit– III Friction: Friction and its relevance in engineering,	21/2/26		
15	Types and laws of friction, limiting equilibrium, limiting friction, co-efficient of friction,	24/2/26		

House/Class Test	Contents of syllabus covered	Proposed date	Actual date	Remarks
CT-I	30% of the syllabus	2nd week of March 2026		
CT-II	Next 30% of the syllabus	2nd week of April 2026		
House Test	80% of the syllabus	2nd week of May 2026		

Lab Plan:

Exp. No.	Name of experiment	Actual date		Remarks
		G-1	G-2	
1	To study various equipments related to Engineering Mechanics.			
2	To find the M.A., V.R., Efficiency and law of machine for Differential Axle and Wheel.			
3	To find the M.A., V.R., Efficiency and law of machine for Simple Screw Jack.			
4	Derive Law of machine using Worm and worm wheel.			
5	Determine resultant of concurrent force system applying Law of Polygon of forces using forcetable.			
6	Determine resultant of concurrent force system graphically.			
7	Determine resultant of parallel force system graphically.			
8	Verify Lami's theorem.			
9	Study forces in various members of Jib crane.			
10	Determine support reactions for simply supported beam.			
11	Obtain support reactions of beam using graphical method..			
12	Determine coefficient of friction for motion on horizontal and inclined plane.			
13	Determine centroid of geometrical plane figure			


(Signature of Teacher)


(Signature of HOD)

LESSON PLAN

Program Name	CIVIL ENGG.
Course/Subject Name	FUNDAMENTALS OF ELECTRICAL AND ELECTRONICS ENGG.
Course/Subject Code	ES 104
Course/Subject Coordinator Name	ASHOK KUMAR

Evaluation scheme

S.No.	Subject Name	Study scheme (Hrs/Week)	Marks in evaluation scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	FEEE & FEEE LAB	TH [3+1(DCS) + 2 (Lab)]	40	40	60	60
Reference books			1. Ritu Sahdev, Basic Electrical Engineering, Khanna Publishing House, 2018. 2. Mittle and Mittal, Basic Electrical Engineering, McGraw Education, New Delhi, 2015, ISBN : 978-0-07-0088572-5. 3. Saxena, S. B. Lal, Fundamentals of Electrical Engineering, Cambridge University Press, latest edition ISBN : 9781107464353. 4. Theraja, B. L., Electrical Technology Vol – I, S. Chand publications, New Delhi, 2015, ISBN: 9788121924405. 5. Theraja, B. L., Electrical Technology Vol – II, S. Chand publications, New Delhi, 2015, ISBN: 9788121924375. 6. Jegathesan, V., Basic Electrical and Electronics Engineering, Wiley India, New Delhi, 2015, ISBN : 97881236529513. 7. Sedha, R.S., A text book of Applied Electronics, S.Chand ,New Delhi, 2008, ISBN-13: 978-8121927833. 8. Malvino, Albert Paul, David, Electronics Principles, McGraw Hill Education, New Delhi, 2015, ISBN-13: 0070634244-978. 9. Mehta, V.K., Mehta, Rohit, Principles of Electronics, S. Chand and Company, New Delhi, 2014, ISBN-13-9788121924504. 10. Bell Devid, Fundamental of Electronic Devices and Circuits, Oxford University Press, New Delhi 2015 ISBN : 9780195425239.			

Course Outcomes: After the completion of the course the student will be able:

- To express different elements and concepts of electrical engineering field
- To understand basic concepts of various active and passive electronic components, Signals, Op-Amp
- To use Digital Electronics and their applications

Teaching Plan:

31 32 33

Lecture No.	Topic Covered	Proposed date	Actual Date	Rem
1	Passive Active Components	27-01-2026		
2	Passive Active Components	29-01-2026		
3	Resistances, Capacitors, Inductors, Diodes, Transistors, FET, MOS and CMOS and their Applications	31-01-2026		
4	Resistances, Capacitors, Inductors, Diodes, Transistors, FET, MOS and CMOS and their Applications	02-02-2026		
5	Signals: DC/AC, voltage/current, periodic/non-periodic signals, average, rms, peak values, different types of signal waveforms	03-02-2026		
6	Signals: DC/AC, voltage/current, periodic/non-periodic signals, average, rms, peak values, different types of signal waveforms	05-02-2026		
7	Signals: DC/AC, voltage/current, periodic/non-periodic signals, average, rms, peak values, different types of signal waveforms	07-02-2026		
8	Ideal/non-ideal voltage/current sources, independent/dependent voltage current sources.	09-02-2026		
9	Ideal/non-ideal voltage/current sources, independent/dependent voltage current sources.	10-02-2026		
10	Operational Amplifiers-Ideal Op-Amp,	12-02-2026		
11	Operational Amplifiers-Ideal Op-Amp	16-02-2026		
12	Practical op amp, Open loop and closed loop configurations	17-02-2026		
13	Practical op amp, Open loop and closed loop configurations	19-02-2026		
14	Application of Op-Amp as amplifier, adder, differentiator and integrator.	21-02-2026		
15	Application of Op-Amp as amplifier, adder, differentiator and integrator	23-02-2026		
16	Introduction to Boolean Algebra	24-02-2026		
17	Introduction to Boolean Algebra	26-02-2026		
18	Electronic Implementation Gates-Functional Block Approach, Storage elements-Flip Flops, Boolean Operations	28-02-2026		
19	Electronic Implementation ,Gates-Functional Block Approach, Storage elements-Flip Flops Boolean Operations	02-03-2026		
20	Functional block approach, Counters: Ripple, Up/down and decade, Introduction to digital IC Gates (of TTL Type	03-03-2026		
21	EMF, Current, Potential Difference	05-03-2026		
22	EMF, Current, Potential Difference	07-03-2026		
23	Power and Energy; M.M.F, magnetic force, permeability, hysteresis loop	09-03-2026		
24	Power and Energy; M.M.F, magnetic force, permeability, hysteresis loop	10-03-2026		
25	reluctance, leakage factor and BH curve; Electromagnetic induction	12-03-2026		
26	reluctance, leakage factor and BH curve; Electromagnetic induction	16-03-2026		
27	Faraday's laws of electromagnetic induction, Lenz's law; Dynamically induced emf	17-03-2026		
28	Faraday's laws of electromagnetic induction, Lenz's law; Dynamically induced emf	19-03-2026		
29	Statically induced emf; Equations of self and mutual inductance; Analogy between electric and magnetic circuits.	21-03-2026		

62	Doubt clearing session/Revision Classes	21-05-2026		
63	Doubt clearing session/Revision Classes	23-05-2026		
64	Doubt clearing session/Revision Classes	25-05-2026		
65	Doubt clearing session/Revision Classes	26-05-2026		

Assignments:

Assignment serial	Contents of syllabus covered	Proposed date	Actual date	Remarks
A-1	Electric and Magnetic Circuits	22/03/2026		
A-2	A.C. Circuits & Transformers	20/04/2026		

House Test/Class Test:

House/Class Test	Contents of syllabus covered	Proposed date	Actual date	Remarks
CT-I	30% of the syllabus	2nd week of March 2026		
CT-II	Next 30% of the syllabus	2 nd week of April 2026		
House Test	80% of the syllabus	2nd week of May 2026		

Lab Plan:

Exp. No.	Name of experiment	Actual date		Remarks
		G-1	G-2	
1	Determine the permeability of magnetic material by plotting its B-H curve.			
2	Measure voltage, current and power in 1-phase circuit with resistive load.			
3	Measure voltage, current and power in R-L series circuit.			
4	Determine the transformation ratio (K) of 1-phase transformer.			
5	Connect single phase transformer and measure input and output quantities.			
6	Make Star and Delta connection in induction motor starters and measure the line and phase values.			

W

Department of Applied Sciences & Humanities
Dr.B.R. Ambedkar Govt. Polytechnic Ambota
Distt. – Una (H.P.)

LESSON PLAN

Program Name	Civil Engineering
Subject Name	Applied Mathematics-II
Subject Code	BS102
Semester	2 nd
Subject Teacher Name	Sandeep Kumar

Evaluation Scheme

Sr. No.	Subject Name	Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	DCS	Th	Pr	Total	Th	Pr	Total
1.	Applied Mathematics-II	4	1	40	-	40	60	-	60
Reference Books		(i) B.S. Grewal, Higher Engineering Mathematics, Khanna Publishers, New Delhi, 40th Edition, 2007							
		(ii) S.S. Sabharwal, Sunita Jain, Eagle Parkashan, Applied Mathematics, Vol. I & II, Jalandhar.							

Course Outcomes (COs)

CO – 1	To understand the students are expected to acquire necessary background in Determinants and Matrices so as to appreciate the importance of the Determinants are the factors that scale different parameterizations so that they all produce same overall integrals, i.e. they are capable of encoding the inherent geometry of the original shape.
CO – 2	To understand cumulative effect of the original quantity or equation is the Integration.
CO – 3	The students are able to learn the coordinate geometry provides a connection between algebra and geometry through graphs of lines and curves.
CO – 4	Tell the difference between a resultant and a concurrent force to model simple physical problems in the form of a differential equation, analyze and interpret the solutions.

Teaching Plan

	Name of Topic	Proposed Date	Actual Date	Remarks
UNIT-1 Determinants and Matrices	Introduction of Determinants	27/01/2026		
	Elementary properties of determinants up to 3rd order	28/01/2026 29/01/2026 30/01/2026		
	Doubt Clearing Session	31/01/2026		
	Consistency of equations	02/02/2026 03/02/2026		
	Cramer's rule	04/02/2026		

SS

UNIT- IV Differential Equations	separable method (simple problems).			
	Solution of first order and first degree differential equation by variable separable method (simple problems).	26/05/2026		

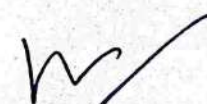
Assignments

Assignment No	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit-1	13/03/2026		
A-2	Unit-2	10/04/2026		
A-3	Unit-3	08/05/2026		

House Test/Class Test

Name of test	Syllabus for Tests	Proposed Date	Actual Date	Remarks
Class Test -1	Unit-1	As per HPTSB Academic Schedule		
Class Test -2	Unit-2			
House Test - 1	Unit-1, Unit-2 and Unit-3			


(Signature of Teacher)


(Signature of HOD)

Lesson Plan/Lab Plan (Electrical shop)

Trade : Civil Engg.		Session: Jan-June 2026		
Sem: 2nd				
Sr. No	Name of Practical	Proposed Date	Actual Date	Remarks
1	(i) Demonstration of advance power tools, Pneumatic tools, Electrical wiring tools and accessories.	G-II 30/1, 31/1/26		
		G-III 2/2, 6/2		
		G-IV 9/2, 13/2		
		G-V 16/2, 20/2		
		G-I 23/2, 27/2		
2	(ii) Tools for cutting and drilling (iii) Demonstration of measurement of current, voltage, Power and energy.	G-II 2/3		
		G-III 7/2		
		G-IV 16/3		
		G-V 21/2		
		G-I 28/2		
3	Practice of simple lamp circuit (iv) One lamp controlled by one switch by surface conduit wiring. (v) Lamp Circuits- Connection of lamp and socket by seprate switches.	G-II 6/3, 7/3		
		G-III 9/3, 13/3		
		G-IV 20/3, 23/3		
		G-V 27/3, 28/3		
		G-I 30/3, 4/4		
4	(vi) Connection of Fluorescent lamp/tube light. (vii) Simple Lamp Circuits install bedroom lighting (viii) Simple lamp Circuit install stair case wiring.	G-II 6/4, 10/4 22/5		
		G-III 13/4, 17/4, 18/4		
		G-IV 20/4, 24/4, 25/4		
		G-V 27/4, 21/5 23/5		
		G-I 4/5, 8/5 18/5		

Workshop Instr.

Foreman Instr.

Workshop Supdt.

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App. Sci. & Hum.

Lesson Plan/Lab Plan (Fitting shop)

Trade : Civil Engg.		Session: Jan-June 2026		
Sem: 2nd				
Sr. No	Name of Practical	Proposed Date	Actual Date	Remarks
1	Demonstration of different fitting tools and drilling machines and Power tools	30,31-1-26 - C		
		2,6-2-26 - D		
		9,13-2-26 - E		
		20,21-2-26 - A		
		27,28-2-26 - B		
2	Demonstraion of different operations like chipping, fitting, drilling, tapping, sawing, cutting etc.	6,7-3-26 C		
		7-2-26 } 13-3-26 } - D		
		16-2-26 23-3-26 E		
		23-2-26 } 30-3-26 } - A		
		4,6-4-26 }		
		2-3-26 } 10,13-4-26 } - B		
3	One simple fitting job involving practice of chipping, filing, drilling, tapping, cutting etc.	9-3-26 } 18,20,24-4-26 } - C		
		16,20-3-26 } 25,27-4-26 } - D		
		27,28-3-26 } 2,4,8-5-26 } - E		
		16,18,22-5-26 - A		
		17-4-26 } 23,25-4-26 } - B		

Workshop Instr.

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Lesson Plan/Lab Plan (Welding Shop)

Trade : Civil Engg.		Session: Jan-June 2026		
Sem: 2nd				
Sr. No	Name of Practical	Proposed Date	Actual Date	Remarks
1	Demonstraion of different welding tools/machines	G-I 30/1, 31/1		
		G-II 2/2, 6/2		
		G-III 9/2, 13/2		
		G-IV 16/2, 20/2		
		G-V 23/2, 27/2		
2	Demonstraion on Arc Welding, Gas Welding, MIG, MAG Welding, gas cutting and rebuilding of broken parts with welding	G-I 2/3		
		G-II 7/2		
		G-III 16/3		
		G-IV 21/2		
		G-V 28/2		
3	One Simple job involving butt and lap joint	G-I 6/3, 7/3		
		G-II 9/3, 13/3		
		G-III 20/3, 23/3		
		G-IV 27/3, 28/3		
		G-V 30/3, 4/4		
		G-I 6/4, 10/4, 22/5		
		G-II 13/4, 17/4, 18/4		
		G-III 20/4, 24/4, 25/4		
		G-IV 27/4, 2/5, 23/5		
		G-V 4/5, 8/5, 18/5		

W/shop Instr.

Foreman Instr.

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App. Sci. & Hum.

Workshop Supdt.

Lesson Plan/Lab Plan (Carpentry shop)

Trade : Civil Engg.		Session: Jan-June 2026		
Sem: 2nd				
Sr. No	Name of Practical	Proposed Date	Actual Date	Remarks
1	(i) Demonstration of different wood working tools/Machines.	G-I, 30/1, 31/1/26		
		G-II, 2/2, 6/2		
		G-III, 9/2, 13/2		
		G-IV, 16/2, 20/2		
		G-V, 23/2, 27/2		
2	(ii) Demonstration of different wood working processes like Planing, Marking, Chiseling, grooving, truning of wood etc.	G-I, 2/3		
		G-II, 7/2		
		G-III, 16/3		
		G-IV, 21/02		
		G-V, 28/02		
3	One Simple Job involving any one joint like mortise and tenon joint.	G-I, 6/3, 7/3/26		
		G-II, 9/3, 13/3		
		G-III, 20/3, 23/3		
		G-IV, 27/3, 28/3		
		G-V, 30/3, 4/04/26		
4	Practice on Dovetail, bridle and half lap joint etc.	G-I, 6/4, 10/4/26		
		22/05/26		
		G-II, 13/4, 17/4/26		
		18/4		
		G-III, 20/4, 24/4/26		
		25/4		
		G-IV, 27/4, 21/5, 23/5		
		G-V, 4/5, 8/5, 18/5		

Workshop Instr.

Foreman Instr.

Workshop Supdt.

HOD

App. Sci. & Hum.