DEPARTMENT OF APPLIED SCIENCES
SIRDA POLYTECHNIC SUNDERNAGAR
DISTT.- MANDI (H.P.) - 175019

LESSON PLAN

Program Name	Applied Sciences
Subject Name	Environmental Science
Subject Code	AU102
Semester	2ND
Subject Teacher Name	Mr. Ajay Pal

Evaluation Scheme

S. No.	Subject Name	Study Scheme (Hrs/week)		Marks Distribution in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
1	Environmental Science	2	0	40	0	40	60	0	100
Refrence Books		(1) S.C. Sharma & M.P. Poonia, Environmental Studies,Khanna Publishing House,New Delhi							
		(2) C.N. R. Rao, Understanding Chemistry, Universities Press (India) Pvt. Ltd., 201							

Teaching Plan

	Name of Topic	Proposed Date	Actual Date	Remarks
Unit-I Ecosystem	Structure of ecosystem, Biotic & Abiotic components Food chain	28.01.2026		
	Food web Aquatic (Lentic and Lotic)	30.01.2026		
	Physical properties of fluid – density-specific volume, specific gra	04.02.2026		
	Terrestrial ecosystem Carbon, Nitrogen, Sulphur, Phosphorus cycle	06.02.2026		
	Global warming -Causes, effects, process	11.02.2026		
	Green House Effect, Ozone depletion	13.022026		
Unit-II Air and, Noise Pollution	Definition of pollution and pollutant,Natural and manmade sources of air pollution(Refriger- ants, I.C., Boiler)	20.02.2026		
	Air Pollutants: Types, Particulate Pollutants: Effects and control (Bag filter, Cyclone separator, Electrostatic Precipitator)	25.02.2026		
	Gaseous Pollution Control: Absorber, Catalytic Converter, Effects of air pollution due to Refrigerants, I.C., Boiler	27.02.2026		
	Noise pollution: sources of pollution, measurement of pollution level, Effects of Noise pollution, Noise pollution (Regulation and Control) Rules, 2000	06.03.2026		
	Class Test - I	11.03.2026		
Unit-III 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	13.03.2026		
	Waste Water Treatment:Primary methods:sedimentation, froth floatation, Secondary methods: Activated sludge treatment, Trickling filter, Bioreactor, Tertiary Method: Membrane separation technology, RO (reverse osmosis)	18.03.2026		
	Waste Water Treatment:Primary methods:sedimentation, froth floatation, Secondary methods: Activated sludge treatment, Trickling filter, Bioreactor, Tertiary Method: Membrane separation technology, RO (reverse osmosis)	20.03.2026		
	Causes, Effects and Preventive measures of Soil Pollution: Causes-Excessive use of Fertilizers, Pesticides and Insecticides, Irrigation, E-Waste	25.03.2026		

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Unit-IV ewable sources of Energy	Solar Energy: Basics of Solar energy. Flat plate collector (Liquid & Air). Theory of flat plate col- lector. Importance of coating. Advanced collector. Solar pond. Solar water heater, solar dryer. Solar stills	27.03.2026		
	Biomass: Overview of biomass as energy source. Thermal characteristics of biomass as fuel. Anaerobic digestion. Biogas production mechanism. Utilization and storage of biogas	01.04.2026		
	Class Test - II	08.04.2026		
	Wind energy: Current status and future prospects of wind energy. Wind energy in India. Environmental benefits and problem of wind energy	10.04.2026		
	New Energy Sources: Need of new sources. Different types new energy sources	17.04.2026		
	Applications of (Hydrogen energy, Ocean energy resources, Tidal energy conversion.) Concept, origin and power plants of geothermal energy	22.04.2026		
Unit-V Solid Waste Management, ISO 14000 & Environmental Management	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	24.04.2026		
	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	29.04.2026		
	Collection and disposal: MSW (3R, principles, energy recovery, sanitary landfill), Hazardous	06.08.2026		
	Waste Air quality act 2004, air pollution control act 1981 and water pollution and control act1996.Structure and role of Central and state pollution control board	08.05.2026		
	Concept of Carbon Credit, Carbon Footprint. Environmental management in fabrication industry	20.05.2026		
	ISO14000: Implementation in industries, Benefits	22.05.2026		

Assignments

Assignment No.	Contents of syllabous covered	Proposed Date	Actual Date	Remarks
A-1	Unit-I, Unit-II	06.03.2026		
A-2	Unit-III, Unit-IV	01.04.2026		

Class Test / House Test

Name of Test	Syllabous of Tests	Proposed Date	Actual Date	Remarks
Class Test - I	Unit-I, Unit-II	As per HPTSB Academic Calender		
Class Test - II	Unit-III, Some topics of Unit-IV			
House Test	Unit-I to Unit-IV			

24/01/2026

(Signature of Teacher)

(Signature of HOD)

Principal
SIRDA Polytechnic,
Naulakha, P. O. Kanald,
Sunder Nagar, Mandi (HP)

Principal
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Sundernagar Distt. Mandi
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SIRDA Polytechnic,Naulakha
Lesson Plan

Name : Er. Ajay Kumar
Branch : Common To All
Semester : 2nd
Subject : Engineering Mechanics
Code : ES 106

Lecture Day	Topic	Proposed Date	Actual Date	Remarks
1	Unit – I Basics of mechanics and force system Significance and relevance of Mechanics, Applied mechanics,	27-01-2026		
2	Statics, Dynamics.Space, time, mass, particle, flexible body and rigid body	28-01-2026		
3	Scalar and vector quantity, Units of measurement (SI units) - Fundamental units and derivedunits.	29-01-2026		
4	Force – unit, representation as a vector and by Bow's notation, characteristics and effects of a force,	02-02-2026		
5	Principle of transmissibility of force, Force system and its classification.	03-02-2026		
6	Resolution of a force - Orthogonal components of a force,	04-02-2026		
7	moment of a force, Varignon's Theorem.	05-02-2026		
8	Composition of forces – Resultant, analytical method for determination of resultant for concur- rent,	09-02-2026		
9	non-concurrent and parallel co-planar force systems – Law of triangle,	10-02-2026		
10	parallelogram and polygon of forces.	11-02-2026		
11	Revision	12-02-2026		
12	Unit– II Equilibrium Equilibrium and Equilibrant,Free body and Free body diagram,	16-02-2026		
13	Analytical and graphical meth-ods of analyzing equilibrium.	17-02-2026		
14	Analytical and graphical methods of analyzing equilibrium.	18-02-2026		
15	Lami's Theorem – statement and explanation, Application for various engineering problems.	19-02-2026		
16	Types of beam, supports (simple, hinged, roller and fixed) and loads acting on beam (vertical point load, uniformly distributed load),	23-02-2026		
17	Types of beam, supports (simple, hinged, roller and fixed) and loads acting on beam (vertical point load, uniformly distributed load),	24-02-2026		
18	Beam reaction for cantilever, simply supported beam with or without overhang – subjected to combination of Point load and uniformly distributed load.	25-02-2026		
19	Beam reaction for cantilever, simply supported beam with or without overhang – subjected to combination of Point load and uniformly distributed load.	26-02-2026		
20	Beam reaction graphically for simply supported beam subjected to vertical point loads only	02-03-2026		
21	Beam reaction graphically for simply supported beam subjected to vertical point loads only	03-03-2026		
22	Beam reaction graphically for simply supported beam subjected to vertical point loads only	05-03-2026		
23	Revision	09-03-2026		
24	**CT 1**	10-03-2026		
25	Unit– III Friction Friction and its relevance in engineering,	11-03-2026		
26	types and laws of friction,	12-03-2026		
27	limiting equilibrium, limiting friction,	16-03-2026		
28	co-efficient of friction,	17-03-2026		

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29	angle of friction, angle of repose,	18-03-2026		
30	relation between co-efficient of friction and angle of friction.	19-03-2026		
31	Equilibrium of bodies on level surface subjected to force parallel and inclined to plane.	23-03-2026		
32	Equilibrium of bodies on level surface subjected to force parallel and inclined to plane	24-03-2026		
33	Equilibrium of bodies on inclined plane subjected to force parallel to the plane only.	25-03-2026		
34	Equilibrium of bodies on inclined plane subjected to force parallel to the plane only.	30-03-2026		
35	Revision	31-03-2026		
36	Revision	01-04-2026		
37	Unit– IV Centroid and centre of gravity Centroid of geometrical plane figures (square, rectangle, triangle, circle, semi-circle, quarter circle).	02-04-2026		
38	Centroid of geometrical plane figures (circle, semi-circle, quarter circle).	06-04-2026		
39	Centroid of composite figures composed of not more than two geometrical figures.	07-04-2026		
40	Centroid of composite figures composed of not more than two geometrical figures.	08-04-2026		
41	Centre of Gravity of simple solids (Cube, cuboid, cone, cylinder, sphere, hemisphere)	09-04-2026		
42	Centre of Gravity of simple solids (Cube, cuboid, cone, cylinder, sphere, hemisphere)	13-04-2026		
43	CT2	16-04-2026		
44	Centre ofGravity of composite solids composed of not more than two simple solids.	20-04-2026		
45	Centre ofGravity of composite solids composed of not more than two simple solids.	21-04-2026		
46	Revision	22-04-2026		
47	Revision	23-04-2026		
48	Unit – V Simple lifting machine Simple lifting machine, load, effort,	27-04-2026		
49	Simple lifting machine, load, effort,	28-04-2026		
50	mechanical advantage, applications and advantages.	29-04-2026		
51	mechanical advantage, applications and advantages.	30-04-2026		
52	Velocity ratio, efficiency of machines, law of machine.	04-05-2026		
53	Ideal machine, friction in machine,	05-05-2026		
54	maximum Mechanical advantage and efficiency,reversible and non-reversible machines	06-05-2026		
55	Ideal machine, friction in machine,	07-05-2026		
56	conditions for reversibility.	18-05-2026		
57	Velocity ratios of Simple axle and wheel,	19-05-2026		
58	Differential axle and wheel,	20-05-2026		
59	Worm and worm wheel, Simple screw jack.	21-05-2026		
60	Revision	25-05-2026		
61	Revision	26-05-2026		

Subject Teacher

H.O.D.

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DEPARTMENT OF APPLIED SCIENCES
SIRDA POLYTECHNIC SUNDERNAGAR DISTT.- MANDI (H.P.) - 175019

LESSON PLAN

Program Name	**Applied Sciences**
Subject Name	**Fundamentals of Electrical and Electronics Engg.**
Subject Code	**ES 104**
Semester	**2nd**
Subject Teacher Name	**Mrs. Vaishali verma**

Evaluation Scheme

S. No.	Subject Name	Study Scheme		Marks Distribution in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
1	Fundamentals of Electrical and Electronics Engg.	4	0	40	0	40	60	0	100
	Fundamentals of Electrical and Electronics Engg lab	0	2	0	40	40	0	60	100
	Refrence Books	Basics Electrical & Electronics Engineering by J.B.Gupta							
		Fundamentals Of Electrical & Electronics Engineering by Rajinder Singh Barwal							

Teaching Plan

	Name of Topic	Proposed Date	Actual Date	Remarks
UNIT I Overview of Electronic Components & Signals	**UNIT I** Overview of Electronic Components & Signals: Passive Active Components: Resistances, Capacitors	27.01.2026		
	Inductors, Diodes, Transistors, FET	28.01.2026		
	MOS andCMOS and their Applications	30.01.20206		
	MOS andCMOS and their Applications	2.02.2026		
	periodic/nonperiodic signals,	3.02.2026		
	average, rms, peak values,	4.02.2026		
	different types of signal waveforms	6.02.2026		
	Ideal/non-ideal voltage/current sources	9.02.2026		
	independent/dependent voltage currentsources.	10.02.2026		
UNIT II Overview of Analog Circuits	**UNIT II** Overview of Analog Circuits: Operational Amplifiers-Ideal Op-Amp,	11.02.2026		
	Practical op amp	13.02.2026		
	Open loop and closed loop configurations	16.02.2026		
	closed loop configurations	17.02.2026		
	Application of Op-Ampas amplifier	18.02.2026		
	Application of Op-Amp as amplifier	20.02.2026		
	Op-Amp as amplifier as adder	23.02.2026		
	Differentiator	24.02.2026		
	Integrator	25.02.2026		

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UNIT III Overview of Digital Electronics	**UNIT III** Overview of Digital Electronics: Introduction to Boolean Algebra	27.02.2026		
	Electronic Implementation of Boolean Operations,	2.03.2026		
	Gates-Functional Block Approach,	3.03.2026		
	Storage elements-Flip Flops-A Functional block approach	6.03.2026		
	Counters: Ripple,	9.03.2026		
	Counters: Up/down, decade,	10.03.2026		
	C.T-1	11.03.2026		
	Counters : Up/down, decade,	13.03.2026		
	Introduction to digital IC Gates (of TTL Type)	16.03.2026		
	Introduction to digital IC Gates (of TTL Type)	17.03.2026		
Unit IV Electric and Magnetic Circuits	Unit IV Electric and Magnetic Circuits: EMF, Current, Potential Difference	18.03.2026		
	Powerand Energy; M.M.F,	20.03.2026		
	magnetic force, permeability	23.03.2026		
	hysteresis loop, reluctance,leakage factor	24.03.2026		
	BH curve; Electromagnetic induction	25.03.2026		
	,Faraday's laws of	27.03.2026		
	electromagnetic induction	30.03.2026		
	Statically inducedemf	31.03.2026		
	Equations of self and mutual inductance	27.03.2026		
	Analogy between electric and magneticcircuits	30.03.2026		
Unit V: A.C. Circuits	**Unit V:** A.C. Circuits: Cycle, Frequency	31.03.2026		
	Periodic time, Amplitude, Angular velocity, RMS value	1.04.2026		
	RMS value, Average value	6.04.2026		
	Factor Peak Factor impedance, phase angle	7.04.2026		
	power factor	8.04.2026		
	Mathematical and phasor representation of alternating emf and current	10.04.2026		
	C.T2	13.04.2026		
	Mathematical and phasor representation of alternating emf and current	17.04.2026		
	Voltage and Current relationship in Star and Delta connections	20.04.2026		
	Voltage and Current relationship in Star and Delta connections	21.04.2026		
	A.C inresistors	22.04.2026		
	A.C in inductors	24.04.2026		
	A.C in capacitors	27.04.2026		
	A.C in R-L series	28.04.2026		
	R-C series	29.04.2026		
	R-L-C series parallel circuits	4.5.2026		

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	Power in A. C. Circuits power triangle	5.5.2026		
Unit VI Transformer and Machines	Unit VI Transformer and Machines: General construction	6.5.2026		
	principle of core transformers	8.5.2026		
	principle of core transformers	15.5.2026		
	Emf equation	18.5.2026		
	transformation ratio of transformers;	19.5.2026		
	Auto transformers	20.5.2026		
	Basic principle of Electromechanical energy conversion	22.5.2026		
	Basic principle of Electromechanical energy conversion.	25.5.2026		
	Revision	26.5.2026		

Assignments

Assignment No.	Contents of syllabous covered	Proposed Date	Actual Date	Remarks
A-1	Unit-I, Unit-II	02.03.2026		
A-2	Unit-III, Unit-IV	01.04.2026		

Class Test / House Test

Name of Test	Syllabous of Tests	Proposed Date	Actual Date	Remarks
Class Test - I	Unit-I, Unit-II	As per HPTSB Academic Calender		
Class Test - II	Unit-III, Some topics of Unit-IV			
House Test	Unit-I to Unit-IV			

Subject Teacher

HOD

Principal

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DEPARTMENT OF APPLIED SCIENCES
SIRDA POLYTECHNIC SUNDERNAGAR DISTT.- MANDI (H.P.) - 175019

LESSON PLAN

Program Name	Applied Sciences
Subject Name	Applied Physics II
Subject Code	BS 104
Semester	2nd
Subject Teacher Name	Mrs. Vaishali verma

Evaluation Scheme

S. No.	Subject Name	Study Scheme		Marks Distribution in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
1	Applied Physics II	4	0	40	0	40	60	0	100
	Applied Physics II lab	0	2	0	40	40	0	60	100
	Refrence Books	Applied Physics, Vol. I and Vol. II, TTTI Publications, Tata McGraw Hill, Delhi.							
		Modern approach to Applied Physics-I and II, AS Vasudeva, Modern Publishers.							

Teaching Plan

	Name of Topic	Proposed Date	Actual Date	Remarks
UNIT - 1: Wave motion and its applications	UNIT - 1: Wave motion and its applications	28.01.2026		
	Wave motion, transverse and longitudinal waves with examples	29.01.2026		
	definitions of wave velocity, frequency	31.01.20206		
	wave length and their relationship,Sound and light waves and their properties	2.02.2026		
	wave equation ($y = r \sin \omega t$) amplitude, phase, phase difference	4.02.2026		
	Expression of velocity, acceleration, time period, frequency	5.02.2026		
	Principle of superposition of waves and beat formation	7.02.2026		
	Acoustics of buildings – reverberation, reverberation time, echo, noise	9.02.2026		
	Free, forced and resonant vibrations and their examples.	11.02.2026		
	coefficient of absorption of sound	12.02.2026		
	methods to control reverberation time and their applications.	16.02.2026		
	Ultrasonic waves – Introduction and properties, engineering and medical applications of ultrasonic.	18.02.2026		
UNIT - 2: Optics	UNIT - 2: Optics Basic optical laws- reflection and refraction,	19.02.2026		
	lens and thin lenses, lens formula, power of lens, magnification.	21.02.2026		
	Total internal reflection,	23.02.2026		
	Critical angle and conditions for total internal reflection,	25.02.2026		
	applications of total internal reflection in optical fiber.	26.02.2026		
	astronomical telescope in normal adjustment and their magnifying powers.	28.02.2026		
UNIT - 3: Electrostatics	UNIT - 3: Electrostatics Coulomb's law, unit of charge.	2.03.2026		
	Electric field, Electric lines of force and their properties.	5.03.2026		
	Electric flux, Electric potential potential difference, Gauss's law.	7.03.2026		
	C.T-1	9.03.2026		
	Electric flux, Electric potential potential difference, Gauss's law.	11.03.2026		
	Capacitor and its working, Capacitance and its units.	12.03.2026		
	Capacitance of a parallel plate capacitor,	16.03.2026		
	Series and parallel combination of capacitors (related numerical), dielectric and its effect on capacitance, dielectric break down.	18.03.2026		
UNIT - 4: Current Electricity	UNIT - 4: Current Electricity Electric Current and its units, Direct and alternating current.	19.03.2026		
	Resistance and its units, Specific resistance, Conductance, Specific conductance,	23.03.2026		
	Series and parallel combination of resistances	25.03.2026		
	Factors affecting resistance of a wire, carbon resistances and colour coding.	28.03.2026		
	Ohm's law and its verification, Kirchhoff's laws. Concept of terminal potential difference and Electro motive force (EMF)	30.03.2026		
	Heating effect of current, Electric power, Electric energy and its units	1.04.2026		
	Advantages of Electric Energy over other forms of energy.	2.04.2026		

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UNIT - 5: Electromagnetism	UNIT - 5: Electromagnetism Types of magnetic materials: dia, para and ferromagnetic with their properties.	4.04.2026		
	Magnetic field and its units, magnetic intensity,	6.04.2026		
	magnetic lines of force, magnetic flux and units magnetic lines of force, magnetic flux	8.04.2026		
	C.T-2	9.04.2026		
	Lorentz force (force on moving charge in magnetic field),	13.04.2026		
	Moving coil galvanometer; principle, construction and working,	16.04.2026		
	Conversion of a galvanometer into ammeter and voltmeter.	18.04.2026		
UNIT - 6: Semiconductor Physics	UNIT - 6: Semiconductor Physics Energy bands in solids,Types of materials (insulator, semi-conductor, conductor) intrinsic	20.04.2026		
	Energy bands in solids,Types of materials (insulator, semi-conductor, conductor) intrinsic and extrinsic semiconductors.	22.04.2026		
	p-n junction, junction diode and V-I characteristics	23.04.2026		
	p-n junction, junction diode and V-I characteristics	25.04.2026		
	Diode as rectifier – half wave and full wave rectifier (centre taped),Photocells, Solar cells	27.04.2026		
	Diode as rectifier – half wave and full wave rectifier (centre taped),Photocells, Solar cells	29.04.2026		
	working principle and engineering applications	30.04.2026		
UNIT - 7: Modern Physics	UNIT - 7: Modern Physics Lasers: Energy levels, ionization	2.5.2026		
	excitation potentials;	4.5.2026		
	spontaneous and stimulated emission	6.5.2026		
	population inversion, pumping methods,	7.5.2026		
	optical feedback. Types of lasers,	14.5.2026		
	Ruby He-Ne and semiconductor, laser characteristics	16.5.2026		
	engineering and medical Application Of Laser acceptance angle numerical apurture.	18.5.2026		
	fiber types, applications in telecommunication, medical and sensors.	20.5.2026		
	Revision	21.5.2026		
	Revision	23.5.2026		
	Revision	25.5.2026		

Assignments

Assignment No.	Contents of	Proposed Date	Actual Date	Remarks
A-1	Unit-I, Unit-II	05.03.2026		
A-2	Unit-III, Unit-IV	02.04.2026		

Class Test / House Test

Name of Test	Syllabous of Tests	Proposed Date	Actual Date	Remarks
Class Test - I	Unit-I, Unit-II	As per HPTSB Academic Calender		
Class Test - II	Unit-III, Some topics of Unit-IV			
House Test	Unit-I to Unit-IV			

Subject Teacher

HOD

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DEPARTMENT OF APPLIED SCIENCES
SIRDA POLYTECHNIC SUNDERNAGAR
DISTT.- MANDI (H.P.) - 175019

LESSON PLAN

Program Name	**Applied Sciences**
Subject Name	**Mathematics - II**
Subject Code	**BS102**
Semester	**2nd**
Subject Teacher Name	**Mrs. Vidya Devi**

Evaluation Scheme

S. No.	Subject Name	Study Scheme (Hrs/week)		Marks Distribution in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
1	Mathematics - II	5	0	40	0	40	60	0	100
Refrence Books		(1) B.S. Grewal, Higher Engineering Mathematics, Khanna Publishers, New Delhi, 40 th Edition, 2007							
		(2) S.S. Sabharwal, Sunita Jain, Eagle Parkashan, Applied Mathematics, Vol. I & II, Jalandhar							

Teaching Plan

	Name of Topic	Proposed Date	Actual Date	Remarks
Unit-I Determinants and Matrices	Determinants	27.01.2026		
	Elementary properties of determinants up to 3rd order	28.01.2026		
	Problems solving	29.01.2026		
	consistency of equations,	31.01.2026		
	consistency of equations,	02.02.2026		
	Problems solving	03.02.2026		
	Crammer's rule.	04.02.2026		
	Crammer's rule.	05.02.2026		
	Problems solving	07.02.2026		
	Algebra of matrices	09.02.2026		
	Inverse of a matrix	10.02.2026		
	Problems solving	11.02.2026		
	matrix inverse method to solve a system of linear equations in 3 variables.	12.02.2026		
	Problems solving	16.02.2026		
UNIT - II: Integral Calculus	Integration as inverse operation of differentiation.	17.02.2026		
	Integration as inverse operation of differentiation.	18.02.2026		
	Problems solving	19.02.2026		
	Problems solving	21.02.2026		
	Simple integration by substitution	23.02.2026		
	Problems solving	24.02.2026		
	Problems solving	25.02.2026		
	Problems solving	26.02.2026		
	Integration by parts	28.02.2026		
	Problems solving	02.03.2026		
	Problems solving	03.03.2026		
	Problems solving	05.03.2026		
	Integration by partial fractions	07.03.2026		
	Problems solving	09.03.2026		

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UNIT - II: Integral Calculus	**Class Test - I**	10.03.2026		
	Problems solving	11.03.2026		
	Problems solving	12.03.2026		
	Use of formulae for solving problems where m and n are positive integers. $\int_0^{\frac{\pi}{2}} \sin^n x dx, \quad \int_0^{\frac{\pi}{2}} \sin^m x dx \cos^n x dx, \quad \int_0^{\frac{\pi}{2}} \cos^n x dx$	16.03.2026		
	Problems solving	17.03.2026		
	Problems solving	18.03.2026		
	Problems solving	19.03.2026		
	Applications of integration for i). Simple problem on evaluation of area bounded by a curve and axes	23.03.2026		
	Applications of integration for i). Simple problem on evaluation of area bounded by a curve and axes.	24.03.2026		
	Applications of integration for i). Simple problem on evaluation of area bounded by a curve and axes.	25.03.2026		
	Applications of integration for. ii) Calculation of Volume of a solid formed by revolution of an area about axes. (Simple problems).	28.03.2026		
	Applications of integration for. ii.) Calculation of Volume of a solid formed by revolution of an area about axes. (Simple problems).	30.03.2026		
	Revision	31.03.2026		
UNIT - III: Co-Ordinate Geometry	Equation of straight line in various standard forms (without proof),	01.04.2026		
	Inter section of two straight lines	02.04.2026		
	angle between two lines.	04.04.2026		
	Problems solving	06.04.2026		
	Class Test-II	07.04.2026		
	Parallel and perpendicular lines	08.04.2026		
	Problems solving	09.04.2026		
	Problems solving	13.04.2026		
	perpendicular distance formula	16.04.2026		
	Problems solving	18.04.2026		
	General equation of a circle and its characteristics	20.04.2026		
	To find the equation of a circle,given Centre and radius,	21.04.2026		
	To find the equation of a circle, given: Three points lying on it	22.04.2026		
	To find the equation of a circle, given: Coordinates of end points of a diameter;	23.04.2026		
	Revision	25.04.2026		
	Definition of conics (Parabola, Ellipse, Hyperbola)	27.04.2026		
	Parabola, Ellipse, Hyperbol their standard equations without proof.	28.04.2026		
	Problems solving	29.04.2026		
	. Problems on conics when their foci, directrices or vertices are given.	30.04.2026		
	. Problems on conics when their foci, directrices or vertices are given.	02.05.2026		
	Revison	04.05.2026		
	Revison	05.05.2026		

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ifferential ions	Differential Equations	06.05.2026		
	first order and first degree differential equation	07.05.2026		
	Problems solving	18.05.2026		
	Solution of first order and first degree differential equation by variable separable method (simple problems).	19.05.2026		
	Solution of first order and first degree differential equation by variable separable method (simple problems).	20.05.2026		
	Problems solving	21.05.2026		
	Revison	23.05.2026		
	Revison	25.05.2026		
	Revison	26.05.2026		

Assignments

Assignment No.	Contents of syllabous covered	Proposed Date	Actual Date	Remarks
A-1	Unit-I, Some topic of Unit -II	05.03.2026		
A-2	Unit-II, Some topics of Unit-III	02.04.2026		

Class Test / House Test

Name of Test	Syllabous of Tests	Proposed Date	Actual Date	Remarks
Class Test - I	Unit-I, Some topic of Unit -II	10.03.2026		
Class Test - II	Unit-II, Some topics of Unit-III	07.04.2026		
House Test	Unit-I to Unit-IV			

Vidya

(Signature of Teacher)

29/5/2026

(Signature of HOD)

Principal
SIRDA Polytechnic
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Principal, (H.P.)
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