RPS Degree College, Balana (Mahendergarh)

Lesson Plan

2019-20(Even Semester)

Class and Section: HM 2ND
Subject: ENGLISH
Name of the Faculty : Mr. Sushil Kumar

Week	Lecture	Date	Topics
	1	20-Jan-20	Introduction to Syllabus, Scheme of Exam & Learning Objectives/Outcomes
	2	21-Jan-20	Test to Check the Learning Level of the Students
	3	27-Jan-20	Story 1 half complete
	4	28-Jan-20	Story 1 complete
	5	03-Feb-20	Story 2 half complete and complete
	6	04-Feb-20	
	7	10-Feb-20	Story 3 half complete
	8	11-Feb-20	Story 3 complete
	9		
	10	17-Feb-20	Doubt session and vocabulary 1
	11	18-Feb-20	UT1
	12	24-Feb-20	Basic Translations
	13	25-Feb-20	Testing students understanding
	14	02-Mar-20	Story 4 half complete
	15	03-Mar-20	Story 4 complete
	16	05-Mar-20	Doubt session and vocabulary 2
	17	09-Mar-20	Letter writing
	18	16-Mar-20	Story 5 half complete
	19	17-Mar-20	
	20	23-Mar-20	Story 5 complete
	21	24-Mar-20	UT2
	22	30-Mar-20	Story 6 half complete
	23	31-Mar-20	Story 6 complete
	24	06-Apr-20	Letter writing and vocabulary 3
	25	07-Apr-20	Revision
	26	13-Apr-20	Revision
	27	14-Apr-20	Revision
	20th - 24th April 20		Final Sessional Test

RPS Degree College, Balana (Mahendergarh)

Lesson Plan

2020-21 (Even Semester)

Class and Section: Honors Mathematics 2nd sem

Subject: Discrete Mathematics-II

Name of the Faculty : Hansraj

Week	Lecture	Date	Topics
1	7	16/01/20 to 24/01/20	Introduction of discrete mathematics.Basic definitions used in 1st unit. Definition of lattices and examples.Some examples related to lattices.Properties of lattices.
2	5	27/01/20 to 31/01/20	Lattices as algebraic system.Some examples related to lattices as algebraic system.Some theorems related to lattices as algebraic system.Doubt class on above topic.class test on above topic.Definition of bounded lattices and examples.
3	5	03/02/20 to 07/02/20	Some examples related to bounded lattices.Some theorems related to bounded lattices.Properties of bounded lattices.Doubt class on above topic.class test on above topic.More exercise on bounded lattices.
4	5	10/02/20 to 14/02/20	Definition of complemented lattices and examples.Properties of complemented lattices.Some theorems related to complemented lattices.Some examples related to complemented lattices.Doubt class on above topic.class test on above topic.
5	5	17/02/20 to 21/02/20	Definition of distributive lattices and examples.Properties of distributive lattices.Some theorems related to distributive lattices.Doubt class on above topic.Doubt class of whole unit-I.
6			1st Class Test
7	5	24/02/20 to 28/02/20	Definition of Boolean algebra and examples.Properties of Boolean algebra.Some examples related to Boolean algebra.Some theorems related to Boolean algebra.Duality property of Boolean algebra.
8	5	02/03/20 to 06/03/20	Definition of distributive boolean algebra and examples.Some examples related to distributive Boolean algebra.Some theorems related to distributive Boolean algebra.Doubt class on above topic.Definition of complemented boolean algebra and examples.
9	5	09/03/20 to 13/03/20	Some theorems related to complemented Boolean algebra.Doubt class on above topic.Design and implementation of digital networks.Some theorems related to digital networks.Doubt class on above topic.Definition of switching circuits and examples.Some examples related to switching circuits.Some theorems related to switching circuits.
10			2nd Class Test
11	5	16/03/20 to 20/03/20	class test on above topic.Definition of Karnaugh map and examples.Some examples related to Karnaugh map.Some theorems related to Karnaugh map.Doubt class on above topic.class test on above topic.
12	5	23/03/20 to 27/03/20	Definition of Graphs and examples.Types of Graphs and examples.Some theorems related to Graphs.Examplary types of graphs.Definition of paths and circuits and examples.Some theorems related to paths and circuits.Doubt class on above topic.
13	5	06/04/20 to 10/04/20	Definition of Eulearian and Hermitian circuits and examples.Some examples related toEulearian and Hermitian circuits .Some theorems related to Eulearian and Hermitian circuits.Seven bridge machine, definition and examples.Some theorems related to Seven bridge machine.Shortest path traveling salesman problems.Some theorems related to Shortest path traveling salesman problems.Doubt class on above topic.
14	5	30/03/20 to 03/04/20	Definition of planar graph and examples.Some theorems related to planar graph.Definition and examples of matrix of graph.Directed graphs trees and examplesIsomorphism of trees.Representation of algebraic expressions by binary trees.Some theorems related to Representation of algebraic expressions by binary trees.Doubt class on above topic.
15	5	13/04/20 to 17/04/20	Definition of spanning tree of a graph.Shortest path problems and theorems with examples.Minimal spanning tree and examples with theorems. Definition of cut sets and tree searching.Some theorems related to cut sets and tree searching.Doubt class on above topic.class test on above topic.Revision of whole syllabus.
16			Final Sessional Test

RPS Degree College, Balana (Mahendergarh)

C :B.Sc(H.M.) 2nd semester

Subject: Ordinary Differential Equation

Name of the Faculty :Mr. Manjeet

Week	Lecture	Date	Topics
1	7	16/01/20 to 24/01/20	Basics of differential equation , Solution of exact differential equation, Integrating Factor
2	5	27/01/20 to 31/01/20	First order higher degree equation solvable for x,y,p and Lagranges equation,Clairauts equation
3	5	03/02/20 to 07/02/20	Orthogonal trajectory in Cartesian and polar cordinates,Linear differential equation with constant coefficients
4	5	10/02/20 to 14/02/20	Homogeneous linear ordinary differential equation,
5	5	17/02/20 to 21/02/20	Equation reducible to Homogeneous equation and then find solution of differential equation
6			1st Class Test
7	5	24/02/20 to 28/02/20	Linear differential equation of second order, Reducible to Normal form
8	5	02/03/20 to 06/03/20	Solution of non homogeneous differential equation
9	5	09/03/20 to 13/03/20	Method of variation of parameter
10			2nd Class Test
11	5	16/03/20 to 20/03/20	Method of undetermined coefficients, Ordinary simultaneous differential equation
12	5	23/03/20 to 27/03/20	Solution of simultaneous differential equation involving parameter
13	5	06/04/20 to 10/04/20	Simultaneous equation of the form dx/P=dy/Q=dz/R
14	5	30/03/20 to 03/04/20	Total differential equation, Condition for Pdx+Qdy+Rdz=0 by taking one variable constant
15	5	13/04/20 to 17/04/20	Method of auxiliary equations
16			Final Sessional Test

RPS Degree College, Balana (Mahendergarh)

Class and Section:B.Sc(H.M.) 2nd semester

Subject: Regression Analysis and Probability

Name of the Faculty : Mr. Satyender Singh

Week	Lecture	Date	Topics
1	7	16/01/20 to 24/01/20	Linear Regression: Concept of regression, principle of least squares and fitting of straight line, derivation of two lines of regression
2	5	27/01/20 to 31/01/20	Properties of regression coefficients , standard error of estimate obtained from regression line, correlation coefficient between observed and estimated values.
3	5	03/02/20 to 07/02/20	Angle between two lines of regression. Difference between correlation and regression.
4	5	10/02/20 to 14/02/20	Curvilinear Regression: Fitting of second degree parabola, power curve of the type Y =a*pow(x,b), exponential curves of the types Y=a*pow(b,x) and Y=a*exp(bx).
5	5	17/02/20 to 21/02/20	Concepts in Probability: Random experiment, trial, sample point, sample space, operation of events, exhaustive, equally likely and independent events
6			1st Class Test
7	5	24/02/20 to 28/02/20	Definition of probability—classical, relative frequency, statistical and axiomatic approach
8	5	02/03/20 to 06/03/20	Addition and multiplication laws of probability, Boole's inequality
9	5	09/03/20 to 13/03/20	Bayes' theorem and its applications. Random Variable and Probability Functions: Definition and properties of random variables
10			2nd Class Test
11	5	16/03/20 to 20/03/20	Discrete and continuous random variable, probability mass and density functions, distribution function.
12	5	23/03/20 to 27/03/20	Concepts of bivariate random variable: joint, marginal and conditional distributions
13	5	06/04/20 to 10/04/20	Mathematical Expectation: Definition and its properties –moments, measures of location, dispersion.
14	5	30/03/20 to 03/04/20	Skewness and kurtosis. Uses and properties along with numericals
15	5	13/04/20 to 17/04/20	Revision of the complete syllabus.
16			Final Sessional Test

RPS Degree College, Balana (Mahendergarh)

Lesson Plan

Class and Section: B.Sc. HM 2

Subject:VECTOR CALCULUS

Name of the Faculty : vikash kumar

Week	Lecture	Date	Topics
1	1	16-Jan-20	Subject History & Progress
	2	17-Jan-20	
2	3	20-Jan-20	Introduction to Syllabus, Scheme of Exam & Learning Objectives/Outcomes
	4	21-Jan-20	Test to Check the Learning Level of the Students
	5	22-Jan-20	Scalar and vector product of three vectors
	6	23-Jan-20	Product of four vectors
	7	24-Jan-20	Reciprocal vectors
3	8	27-Jan-20	Vector differentiation
	9	28-Jan-20	Scalar Valued point functions
	10	29-Jan-20	Vector valued point functions
	11	30-Jan-20	Derivative along a curve
	12	31-Jan-20	Directional derivatives
4	13	03-Feb-20	
	14	04-Feb-20	Gradient of a scalar point function
	15	05-Feb-20	Geometrical interpretation of grad
	16	06-Feb-20	**Test**
	17	07-Feb-20	Character of gradient as a point function
5	18	10-Feb-20	Divergence and curl of vector point function
	19	11-Feb-20	
	20	12-Feb-20	Characters of Div and Curl as point function
	21	13-Feb-20	Gradient,
	22	14-Feb-20	
6 1st Class Test 17-20th Feb. 2020	23	17-Feb-20	Orthogonal curvilinear coordinates
	24	18-Feb-20	Conditions for orthogonality fundamental triad of mutually orthogonal unit vectors
	25	19-Feb-20	and curl of sums
	26	20-Feb-20	
7	27	24-Feb-20	
	28	25-Feb-20	and product and their related vector identities
	29	26-Feb-20	test
	30	27-Feb-20	Vector integration; Line integral
	31	28-Feb-20	Surface integral
8	32	02-Mar-20	their related vector identities
	33	03-Mar-20	laplas operator
	34	04-Mar-20	Green Theoremand problems based on this theorem
	35	05-Mar-20	Gradient of a scalar point function
	36	06-Mar-20	vector field
9	37	09-Mar-20	revision and test
	38	11-Mar-20	
	39	12-Mar-20	
	40	13-Mar-20	Orthogonal curvilinear coordinates
10	41	16-Mar-20	
	42	17-Mar-20	
	43	18-Mar-20	Conditions for orthogonality fundamental triad of mutually orthogonal unit vectors
	44	19-Mar-20	Gradient, Divergence
	45	20-Mar-20	Curl and
11 2nd Class Test 23-27 March 2020	46	23-Mar-20	Laplacian operators in terms of Orthogonal curvilin
	47	24-Mar-20	test
	48	25-Mar-20	**Vector integration; Line integral**
	49	26-Mar-20	
	50	27-Mar-20	
12	51	30-Mar-20	Surface integral
	52	31-Mar-20	volume integral
	53	01-Apr-20	
	54	03-Apr-20	Green Theoremand problems based on this theorem
13	55	06-Apr-20	
	56	07-Apr-20	Revision
	57	08-Apr-20	Stokes theorem
	58	09-Apr-20	Revision
	59	10-Apr-20	Revision
14	60	13-Apr-20	Revision
	61	14-Apr-20	test
	62	15-Apr-20	Revision
	63	16-Apr-20	Revision
	64	17-Apr-20	Revision
15	**20th - 24th April 20**		Final Sessional Test

RPS Degree College, Balana (Mahendergarh)

Lesson Plan

2019-20 (Even Semester)

Class and Section: Hons. Maths 2nd semester

Subject: Programming in Visual Basic

Name of the Faculty : Ms. Meenakshi

Week	Lecture	Date	Topics
1	2	16/01/20 - 17/01/20	Inroduction of visual basic , control and properties
2	3	21/01/20 - 23/01/20	Coding and control structures 1D and 2D array program in lab
3	4	28/01/20 - 31/01/20	Decision and loops, program on decision and loops, textboxes , command buttons
4	4	04/02/2 - 07/02/20	Additional control-list box, option buttons , frames
5	4	11/02/20 - 14/02/20	Checkboxes, scrollbars, timer control
6			**Class Test1**
7	4	25/02/20 - 28/02/20	Menus editors, Menus control
8	4	03/03/20 - 6/03/20	Dialog boxes, procedures, functions
9	3	11/03/20 - 13/03/20	Using debugging windows , database programming
10	4	17/03/20 - 20/03/20	Creating database and revision
11			**Class Test 2**
12	3	31/03/20 - 3/04/20	Crystal Reports , simple active X control
13	4	7/04/20 - 10/04/20	Library functions, string, numeric , time related Misc Function
14	4	14/04/20 - 17/04/20	Revision
15	4	21/04/20 - 24/04/20	Revision
16			Final Sessional Test
17			

Lesson plan

Name of the Assistant Professor: Deepika

Class and Section: B.Sc Honors Math 2nd SEM.

Subject: Opt(ii) : Physics - II **Sub. Code- BHM 126**

Week	Day No.	Topics	Remarks
1	Day 1	**Introduction**	
	Day 2	Energy bands in solid	
	Day 3	Intrinsic & Extrinsic semiconductor	
2	Day 4	Hall Effect	
	Day 5	P-N junction diode & characteristics	
	Day 6	Zener Diode	
3	Day 7	LED & photodiode	
	Day 8	Solar Cell	
	Day 9	Half Wave Rectifier	
4	Day 10	Full Wave Rectifier	
	Day 11	Types of Filter Circuits	
	Day 12	Types of Filter Circuits	
5	Day 13	class test	
	Day 14	Test distribution and test solution	
	Day 15	Zener Diode as Voltage Regular	
6	Day 16	Simple Regulated Power Supply	
	Day 17	Junction Transistor, Bipolar Transistor-1	
	Day 18	Transistor in C-B	
7	Day 19	Transistor in C-E, Transistor in C-C	
	Day 20	Advantage of CB Configuration	
	Day 21	CRO-1	
8	Day 22	Common Base Transistor	
	Day 23	Transistor Biasing	
	Day 24	Methods of Transistor Biasing & Stabilisation	
9	Day 25	D.C Load line	
	Day 26	Common Emitter Transistor	
	Day 27	Common Base Amplifier, Common Emitter Transistor	
10	Day 28	Classification of Amplifier, R-C coupled Amplifier	
	Day 29	Feedback in Amplifier, Advantage of Negative Feedback	

	Day 30	**Emitter Follower,** Oscillator, Classification of Oscillator	
11	Day 31	Condition for salt Sustained oscillaton	
	Day 32	**Hartleyt oscillator**	
	Day 33	Class Test	
12	Day 34	Main Features of Laser, Direction ability, Intensity	
	Day 35	High degree of coherence, Spacial & Temporal Coherence	
	Day 36	Einstein's Coefficient, Amplification, Momentum Transfer	
13	Day 37	Life time of a level, Kinetics of optical obsorption, Threshold condition for Laser Emission	
	Day 38	Laser Pumping, He-Ne Laser,	
	Day 39	RUBY Laser-1, RUBY Laser-2, Application of Laser	
14	Day 40	Sessional Test	
	Day 41	(Revision)& discussion of previous paper (Unit I)	
	Day 42	(Revision)& discussion of previous paper (Unit II)	