Lesson Plan (2021-22)

1St Sem

Name of the Assistant/ Associate Professor: - Sangeeta

Class: B.A/ B.SC. 1st

Subject: Calculus

Week	Topics
Sep 1	Introduction to Syllabus and Pattern
Sep 2	Successive differentiation, Leibnitz theorm
Sep 3	Maclaurin and Taylor series expensions
Sep 4	Newtons method, Radius of curvature for pedal curves
Oct 1	Tangential polar equations
Oct2	circle of curvature, chord of curvature
Oct 3	Asymptotes , Intersection of curve and its asymptotes
Oct 4	Test for concavity and convexity
Nov 1	Points of inflexion, multiple points
Nov 2	Cusps, nodes, conjugate points
Nov 3	Reduction formulae, Rectification
Nov 4	Multiple integrals Area and volume by double integral
Dec 1	Cylindrical and spherical coordinates, Volume of solid

Lesson Plan (2021-22)

5th Sem

Name of the Assistant/ Associate Professor: - Sangeeta

Class: B.A/B.Sc 3rd

Subject: Group and Rings

Week	Topics
Sep 1	Definition of group with example and properties, subgroups and its criteria
Sep 2	Generation of group, cyclic group
Sep 3	Lagrange theorem and normal subgroups
Sep 4	Quotient group, homomorphism, isomorphism, automorphism
Oct 1	Automorphism of cyclic group, Alternating group, Kayley theorem
Oct2	Introduction to ring, subring
Oct 3	Fields, Ideal and Quotient rings
Oct 4	Euclideans rings, polynomial rings
Nov 1	Polynomial over the rational field
Nov 2	The Einstein criteria
Nov 3	Polynomial rings
Nov 4	Commutative rings
Dec 1	Unique factorization domain

LESSON PLAN OF MATHEMATICS

Name of College:- CH. BANSI LAL GOVT. P.G. COLLEGE LOHARU (BHIWANI)

Academic Session:- 2021-22

Semester:- B.A. / B.Sc. Non medical

Subject:- NUMBER THEORY AND TRIGONOMETRY

Teacher name:- MS. SANGEETA

	LESSON PLAN OF NUMBER THEORY AND TRIGONOMETRY
February	
Week 3:	**Introduction to Syllabus and Pattern**
Week 4:	**Divisibility, Greatest common divisor, least common multiple, primes**
March	
Week 1:	**Fundamental theorem of arithmetic , linear congruencies**
Week 2:	**Fermat's theorem, Wilson's theorem and its converse**
Week 3:	**Complete residue system and reduced residue system modulo m, Euler function, Chinese remainder theorem**
Week 4:	**Quadratic residues, Legender symbol, Gauss lemma, Greatest integer function, Divisor function, Sum function**
April:	
Week 1:	**De Moivre's theorem, Expansion of trigonomrtric functions**
Week 2:	**Direct circular and hyperbolic functions and their properties**
Week 3:	**Logarithm of a complex quantity**
Week 4:	**Gregory's series**
May	
Week 1:	**Summation of trigonometric series**
Week 2:	**Doubt classes**

Lesson Plan (2021-22)

Name of Lecturer:-Sangeeta

Class and Section :- B.A./B.Sc 2nd

Semester :- 4th

Subject:- Programming in C and numerical methods

Sr. no.	Week/months	Topic / particulars
1	1st / Feb.	Programmer model of a computer, algorithms, flow chart
2	2nd /Feb.	Data type, operators and expressions, input/output functions
3	3rd/ Feb.	Decision control structures, logical and conditional statements, Loops, Switch and Case control structure
4	4th/ Feb	Strings, character data types, Arithmetic operation on characters
5	1st/ March.	Structure: definition and uses
6	2nd/ March	Solution of algebraic and transcendental equations; Bisection method
7	3rd/ march	Regula falsi method, secant method
8	4th/ March	Fixed point iterative method, Newton Raphson's method
9	1st/ April	Newton iterative formulae for nth root of a number and order of convergence
10	2nd/ April	Gauss elimination method, Gauss Jordan method
11	3rd/ April	Iterative method and Jacobi method
12	4th/ April	Gauss seidal method and Relaxation method

Signature

Lesson Plan (2021-22)

3rd Sem

Name of the Assistant/ Associate Professor: -Sangeeta

Class: B.A /B.SC. 2nd

Subject: Statics

Week	Topics
Sep 1	Composition and resolution of forces
Sep 2	Parallel forces
Sep 3	Moments and couples
Sep 4	Analytical condition of equilibrium of coplanar forces
Oct 1	Friction and center of gravity
Oct2	Virtual work
Oct 3	Virtual work
Oct 4	Forces in three dimension
Nov 1	Poinsots central axis
Nov 2	Wrenches
Nov 3	Wrenches
Nov 4	Null lines and planes
Dec 1	Stable and unstable equillibrium