

# LESSON PLAN OF MATHEMATICS

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

Academic Session:- 2021-22

Semester:- B.Sc. Non Medical 1<sup>st</sup> Sem

Subject:- Calculus

Teacher name:- Seema

	LESSON PLAN OF CALCULUS
September	
Week 4:	Introduction to Syllabus and Pattern
Week 5:	Successive differentiation, Leibnitz theorem
October:	
Week 1:	
	Maclaurin and Taylor series expansions
Week 2:	Newtons method,
	Radius of curvature for pedal curves
Week 3:	Tangential polar equations
	circle of curvature, chord of curvature
November	
Week 1:	Asymptotes , Intersection of curve and its asymptotes
	Test for concavity and convexity
Week 2:	Points of inflexion, multiple points



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Semester:- B.Sc. Non Medical II<sup>nd</sup> Sem

Subject:- NUMBER THEORY AND TRIGONOMETRY

Teacher name:- Seema

<b>LESSON PLAN OF NUMBER THEORY AND TRIGONOMETRY</b>	
<b>APRIL</b>	
<b>Week 1:</b>	<b>Introduction to Syllabus and Pattern</b>
	<b>Divisibility, Greatest common divisor, least common multiple, primes</b>
<b>Week 2:</b>	<b>Fundamental theorem of arithmetic , linear congruencies</b>
<b>Week 3:</b>	<b>Fermat's theorem, Wilson's theorem and its converse</b>
<b>Week 4:</b>	<b>Complete residue system and reduced residue system modulo m, Euler function, Chinese remainder theorem</b>
<b>Week 5:</b>	<b>Quadratic residues, Legendre symbol, Gauss lemma, Greatest integer function, Divisor function, Sum function</b>
<b>MAY:</b>	
<b>Week 1:</b>	<b>De Moivre's theorem, Expansion of trigonometric functions</b>

<b>Week 2:</b>	<b>Direct circular and hyperbolic functions and their properties</b>
<b>Week 3:</b>	<b>Logarithm of a complex quantity</b>
<b>Week 4:</b>	<b>Gregory's series and summation of trigonometric series</b>