KOLHAN UNIVERSITY

CHAIBASA



UNIVERSITY DEPARTMENT OF MATHEMATICS

Course Content of Mathematics

Under NEP 2020

Syllabus Scheme for FYUGP.

Effective from Academic Session 2022-2023.

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Program: Certificate Class: B. Sc.	Year: First/Second	Semester: I/II/III	
G. was Cada: ING	Subject:	Mathematics	
Course Code: IRC	Course Title Date to Cara to Cara		
Course Learning Outo	Omee Thin -		
(iii) Understand the alg	ebra of Matrices and it	is applications.	
Credit: 3	gebra of Matrices and its applications. Compulsory/Elective		
Max Marks:50	Total Number of Lecture: 45		
1 1 YS100	Total Number of Le	cture: 45	

Unit-1: Differential Calculus

Successive differentiation, Leibnitz theorem, Expansion, Partial Differentiation, Tangent and Normal, Curvature.

Unit-II: Integral Calculus

Integration of rational and irrational functions, Evaluation of definite integral Reduction formula.

Unit-III: Matrices

Product of Matrices, Transpose, Adjoint and Inverse of matrices, Symmetric, Skew Symmetric, Hermitian and Skew Hermitian Matrices. Rank of matrices, Elementary operations on matrices. Normal & Echelon form.

Reference Books:

1. Differential Calculus: Lalji Prasad

2. Integral Calculus: Lalji Prasad

3. Matrices by Lalji Prasasd

Res Vindendia Millor