

# FOURTH YEAR UNDER GRADUATE PROGRAM (NEP-2020)

Program: Bachelor of Science (2024-28)

## DISCIPLINE- MATHEMATICS

Session-2024- 25

DSC -01 to08		DSE-01to12		DGE-01&02	
Code	Title	Code	Title	Code	Title
MASC-01	Elementary Calculus	MASE-01	Advanced Calculus	MAGE-01	Elementary Calculus
MASC-02	Algebra	MASE-02	Mechanics	MAGE-02	Algebra
MASC-03	Differential Equations	MASE-03	Numerical Methods		
MASC-04	Abstract Algebra	MASE-04	Number Theory	SEC	
MASC-05	Real Analysis	MASE-05	Integral Transforms	MASEC-01	Introduction to Latex
MASC-06	Metric Spaces	MASE-06	Topology	MASEC-02	Python
MASC-07	Advanced Real Analysis	MASE-07	Complex Analysis - I		
MASC-08	Advanced Abstract Algebra	MASE-08	Discrete Mathematics	VAC	
		MASE-09	Measure Theory	MAVAC-01	Basic Mathematics and Logic
		MASE-10	General and Algebraic Topology		
		MASE-11	Complex Analysis - II		
		MASE-12	Graph Theory		

### Program Outcomes(PO):

**PO1:** Ability to develop scientific temper and acquire in-depth knowledge of algebra, calculus, real analysis, complex analysis, topology and several other branches of mathematics. This program helps learners in building a solid foundation for higher studies in mathematics.

**PO2:** Utilize mathematics to solve theoretical and applied problems by critical thinking, understanding, analysis and synthesis.

**PO3.** The skills and knowledge gained has intrinsic beauty, which also leads to proficiency in analytical reasoning. This can be utilized in modeling and solving real life problems.

**PO4.** Ability to apply mathematical tools in Physics, Economics, Optimization and other subjects it will also develop understanding the architecture of curves and surfaces in plane and spaces etc.

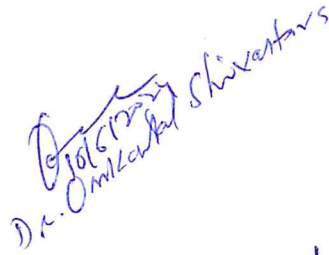
*(Dr. S. Dashpreet)*

*Dr. Anil Kumar*  
10/6/2024  
*(Dr. P. K. Sahu)*

*(F. R. Sahu)*

*Dr. Anandhara Shan*  
*Dr. Madhu Shrivastava*

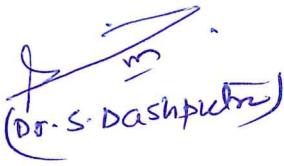
**PO5.** This program will also enable the learners to join teaching profession in schools and this will help the students to enhance their employability for government jobs, jobs in banking insurance and investment sectors, data analyst jobs and jobs in various other public and private enterprises.

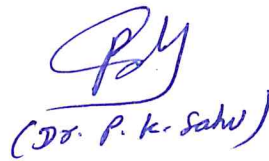
  
Dr. Omkar Shrivastava

  
Dr. Prakash

  
Dr. Madhu Shrivastava

  
Dr. Madhu Shrivastava

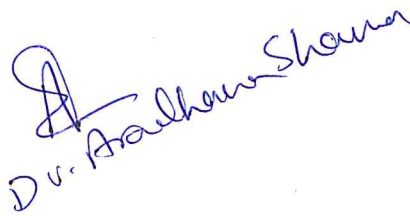
  
Dr. S. Dashputra

  
Dr. P. K. Sahu

  
Dr. C. S. Patil

  
Dr. S. Khan

  
Dr. S. Khan

  
Dr. Anil Kumar Sharma