Course Title	Mathematics Practical-I	
Course Code:23SBCS21VSA		**No. of Credits:2**
Course Type: VSC		**Total Teaching Sessions: 10**

Sr. No	Syllabus	No. of Practical
1	**Introduction to Maxima**	1
	1. Basic syntax 2. Mathematical Operators 3. Real and Complex numbers 4. Polynomials 5. Built-in functions	
2	**Operations on Matrices using Maxima**	2
	1. Matrix construction 2. Algebraic operations on Matrices, powers and inverse of a matrix. 3. Transpose of a matrix 4. Accessing rows and columns 5. Determinant and inverse of a matrix	
3	**Plotting graphs using Maxima**	1
	1. 2-D graph 2. 3-D graph	
4	**Set Theory using Maxima**	1
5	**Discrete Mathematics (Relations, Counting and Logic) using Maxima**	1
6	**Problems Based on Unit I :** 23SBCS21MNA	1
7	**Problems Based on Unit II :** 23SBCS21MNA	1
8	**Problems Based on Unit III :** 23SBCS21MNA	1
9	**Problems Based on Unit IV :** 23SBCS21MNA	1