Lesson Plan 2018-2019			
B. Sc. (Hons) Mathematics (Semester IV).			
SEC-2 Computer Algebra Systems and Related Softwares			
Teacher: Mr.	. Sweeti Yadav & Mr. Kar	pil Kumar Workload : 2 (L) + 2 (P) per week	
References:	1. Bindner, Donald & Erick	kson, Martin. (2011). A student's Guide to the Study, Practice, and	
	Tools of Modern Mathematics. CRC Press, Taylor & Francis Group, LLC.		
Unit	Week	Topics Covered	
1	Week-1	Use of Mathematica, Maple, Maxima as a calculator.	
	January 1-4, 2019		
	Week-2	Use of Mathematica, Maple, Maxima in computing functions.	
	January 7-11, 2019		
	Week-3	Use of Mathematica, Maple, Maxima in making 2d Graphs.	
	January 14-18, 2019		
	Week-4	Use of Mathematica, Maple, Maxima for exploring linear algebra.	
	January 21-25, 2019		
	Week-5	MATLAB/Octave as a calculator, Test and Assignment.	
	January 28 - February 1,		
	2019		
	Week-6	MATLAB/Octave for exploring linear algebra.	
	February 4-8, 2019		
	Week-7	MATLAB/Octave for plotting Curves.	
	February 11-15, 2019		
	Week-8	Matlab for Plotting Surfaces.	
	February 18-22, 2019		
2	Week-9	R as a calculator.	
	February 25- March 1,		
	2019		
	Week-10	Using R to expore data.	
	March 4-8, 2019		
	Week-11	Using R to expore relation.	
	March 11-15, 2019		
	Week-12	Using R for testing hypothesis.	
	March 25-29, 2019		
	Week-13	Using R to generate table Values, Test and Assignment.	
	April 1-5, 2019		
	Week-14	Using R to simulate Data.	
	April 8-12, 2019		
	Week-15	Plotting data using R.	
	April 15-19, 2019		
	Week-16	Final test(if necessary) and assignment submission.	
	April 22-26, 2019		