Lesson Plan (2018-2019)

B. A (Prog) (Semester iii).

Analytical Geometry and Applied Algebra

Teacher: Mr. Basant Kumar Mishra

Workload : 5 lectures per week

Referen	1.Calculus,H.Anton,Birens and S.Davis, john Wiley and Sons,Inc. 2002.		
LE3.	2.Applied Com	nbinatorics,A Tucker,John Waley & Sons,2003.	
Unit	Week	Topics Covered	
1	Week-1	Technique for sketching parabola with examples	
	July 23-27,		
	Week-2	Technique for sketching Ellipse with examples	
	July 30 -		
	August 3,		
2	Week-3	Technique for sketching hyperbola with examples	
	August 6-10, 2		
	Week-4	Exercise problems	
	August 13-17,		
	Week-5	Exercise problems continued,Doubt Class	
	August 20-24,		
3	Week-6	Test and Assignment,Reflection properties of parabola,ellipse,hyperbola	
	August 27-31,		
4	Week-7	Application of Reflection property, Classification of quadratic equation	
	September 3-7		
	Week-8	Rotation of axis second degree equations	
	September 10		
	Week-9	Exercise problems,Rectangular coordinates in 3d	
	September 17		
	Week-10	Spheres,Cylindrical surfaces cones.	
	September 24		
	Week-11	Vectors in coordinate system, Geometrical interpretation of vectors	
	October 1-5, 2		
5	Week-12	Dot product,Cross product and its geometrical properties	
	October 8-12,		

Week-13	Parametric equations of lines in planes
October 22-26	
Week-14	Planes in 3d,Mathematical models for matching jobs,Spelling checker etc
October 29 -	
November 2,	
2018	
Week-15	Latin Squares, Table for a finite group as a latin square
November 5-9	
Week-16	Pitcher pouring puzzle, Final test and assignment submission.
November 12	