

**P.S.B. GOVT. DEGREE COLLEGE LAMBGAON**  
**B.Sc. (Mathematics)- SEMISTER-I**  
**Teaching Plan For Academic Session 2020-2021**

**Course Teacher:** Mayank

**Course Title and Other Specifications**

Course Title:	DIFFERENTIAL CALCULUS
Course Number:	BM-101
Credits:	
Maximum Marks:	65 Marks

Course Description:

UNIT	TOPIC	NUMBER OF LECTURES	NAME OF THE COURSE TEACHER
UNIT 1:	Successive Differentiation,	6	Myank
	Leibnitz's theorem	6	
	Indeterminate form	6	
UNIT 2:	Partial Differentiation	7	Myank
	Euler's theorem	4	
	Homogeneous Functions	6	
	Jacobian	6	
UNIT 3:	Tangents	5	Myank
	Normal	5	
	Curvature	5	
	Asymptotes	5	
UNIT 4:	Singular Points	5	Myank
	Maxima and Minima	6	
UNIT 5:	Curve Tracing (Cartesian)	6	Myank
	Curve Tracing (Parametric.	6	
	Curve Tracing (Polar)	6	

NOTE 1: The calculation for the total number of lectures is done on the basis of 90 teaching days per semester and 6 periods

[5 for theory and 1 for tutorial] allotted for the course per week during the semester. The duration of one lecture is 60 minutes.

\* The distribution of maximum marks for the internal assessment will be according to the rules

of the university.

**Recommended Reading List**

1. M.Ray : Differential Calculus, Shiva Lal Agarwal and Co., Agra.
2. Gorakh Prasad :Differential Calculus, Pothishala publication, Allahabad

Countersigned (Principal)

Sig. (Head)

Sig. (Course Teacher)