

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:	INTEGRAL CALCULUS & TRIGONOMETRY
Course Number:	BM-102
Credits:	
Maximum Marks:	65 Marks

Course Description:

UNIT	TOPIC	NUMBER OF LECTURES	NAME OF THE COUSRE TEACHER
UNIT 1:	Properties of Definite Integrals	6	Myank
	Beta- Gamma functions	7	
UNIT 2:	Rectification	6	Myank
	Quadrature	6	
	Lagrange's theorem and its consequences	6	
UNIT 3:	Volumes and surfaces of solids of revolution	7	Myank
	Double integrals	7	
	Triple integrals	7	
UNIT 4:	Separation into real and imaginary parts	6	Myank
	Logarithmic of complex quantities	6	
	Hyperbolic functions	7	
	Inverse of Hyperbolic functions	7	
UNIT 5:	Gregory's series	6	Myank
	Summation of trigonometric series	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. G.B. Thomas and R.L. Finney, Calculus, 9th Ed., Pearson Education, Delhi, 2005.
2. H. Anton, I. Bivens and S. Davis, Calculus, John Wiley and Sons (Asia) P. Ltd., 2002.
3. S.L.Loney: Plane Trigonometry (Part I, II), Arihant Publications.
4. M.D.Raisinghania, H.C.Sexena & H. K.Dass : Trigonometry, S. Chand & Company Pvt. Ltd. 2002.

Countersigned (Principal)

Sig. (Head)

Sig. (Course Teacher)