



Course Syllabus
Gyanmanjari science college
Semester-2 (M.Sc.)

Subject : Mathematics Practical (MSCMA12512)

Type of course: Major

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks					Total Marks
CI	T	P		C	Theory Marks		Practical Marks		
			ESE		MSE	V	P	ALA	
0	0	12	6	00	00	40	80	30	150

Legends: CI-Classroom Instructions; T – Tutorial; P - Practical; C – Credit; ESE - End Semester Examination; MSE- Mid Semester Examination; V – Viva; CA - Continuous Assessment; ALA- Active Learning Activities.

Continuous Assessment:

Sr. No	Active Learning Activities	Marks
1.	Journal: Unit wise Practical will be given by faculty and students will prepare Journal for the Practicals.	30



List of Practical

Sr. No	Descriptions	Hrs
1.	Practical Based on Special Functions and Transformations.	18
2.	Practical Based on Linear Algebra	18
3.	Practical Based on Algebra - I	18
4.	Practical Based on Classical Mechanics	18
5.	Practical Based on Programming with C, as follow <ul style="list-style-type: none"> ➤ To convert Cartesian coordinates to polar coordinates and vice versa, ➤ To convert degree to radian and vice versa ➤ To find simple interest ➤ To interchange the content of two variables ➤ To find maximum of given 4 numbers ➤ To check given no is odd or even ➤ To check given year is a leap year or not ➤ To find real roots of a quadratic equation ➤ To find all roots of a quadratic equation ➤ To prepare the result of a student ➤ To print numbers for 1 to n such that each line contains m numbers ➤ To check whether given number is prime or not ➤ To check whether given number is perfect or not 	18

Instructional Method:

The course delivery method will depend upon the requirement of content and the needs of students. The teacher, in addition to conventional teaching methods by black board, may also use any tools such as demonstration, role play, Quiz, brainstorming, MOOCs etc.

From the content 10% topics are suggested for flipped mode instruction.

Students will use supplementary resources such as online videos, NPTEL/SWAYAM videos, e-courses, Virtual Laboratory

The internal evaluation will be done on the basis of Active Learning Assignment

Practical/Viva examination will be conducted at the end of semester for evaluation of performance of students in the laboratory.

