**Project in Mathematics**

**Programme(s) in which it is offered: B.Sc.B.Ed. Mathematics**

| **Course Category**: Core | **Schedule of Offering**: Even |
| --- | --- |
| **Course Credit Structure:** 4 | **Course Code:** MTH4211 |
| **Total Number of Hours:** 4 | **Contact Hours Per Week:** 1 |
| **Lecture:** 0, 0 | **Tutorial:** 1, 1 |
| **Practical:** 3, 6 | **Medium of Instruction:** English |
| **Date of Revision:** | **Skill Focus:** Others |
| **Short Name of the Course:** Project in Mathematics | **Course Stream *(Only for Minor Courses)*:** |
| **Grading Method:** Regular | **Repeatable:** Credit |
| **Course Level:** Advanced |  |

**Course Description**

This is a core course for B.Sc. B.Ed. Mathematics students. To complete the programme, the students should undertake a project, and prepare and submit a project report on a topic of their choice in the subject of mathematics.

**Course Introduction**

This course introduces students to fundamentals of research in mathematics and provides an opportunity to do an in-depth study of topic of their choice in the subject of mathematics. This course would provide opportunity for interested students to study in detail the works of ancient Indian mathematicians, and to bring their findings to their classroom teaching when they take up the profession of teaching.

**Course Objective**

The objectives of the course are:

1. To introduce the students to research in mathematics
2. To expose the students to various topics from ancient Indian mathematics
3. To enrich students with the skills of academic writing in mathematics

**Course Outcome**

At the end of the course students will be able to

1. Prepare and submit a project report on topic of their choice from mathematics or allied subjects
2. Utilise the knowledge of their findings in the project in teaching or in further research/ higher studies

**PO-CO Mapping**

**PO-CO Mapping Matrix**

| CO/PO Mapping | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
| --- | --- | --- | --- | --- | --- | --- |
| CO1 |  |  |  |  |  |  |
| CO2 |  |  |  |  |  |  |
| CO3 |  |  |  |  |  |  |
| CO4 |  |  |  |  |  |  |
| CO5 |  |  |  |  |  |  |

**Prerequisites and other constraints**

All students of B.Sc.B.Ed. Mathematics should undertake a project and prepare and submit a project report. There is no prerequisite course.

**Pedagogy**

The students spend about 6 hours in a week to carry out their study and discuss with their project supervisor once in a week (1 hour). The supervisors track the progress of the students and suitably guide them.

**Suggested Reading:**

1. Holtom and Fisher. Enjoy Writing Your Science Thesis or Dissertation A step by step guide to planning and writing dissertations and theses for undergraduate and graduate science students. Imperial College Press.
2. McMillan and Weyers. How to write Dissertations & Project Reports. Pearson Education Limited.
3. Single. Demystifying dissertation writing: a streamlined process from choice of topic to final text. Stylus Publishing. Virginia.

**Evaluation Pattern**

**Evaluation Matrix**

| Continuous Internal  Assessment (CIA) Components\* | Component Type | Weightage Percentage | Total  Marks | Tentative Dates | Course Outcome Mapping |
| --- | --- | --- | --- | --- | --- |
| Presentations made to the supervisor | 100% of CIA | 60 | Every week |  |
| ESE | Project Report | 30% | 30 | End of the semester | 1, 2 |
| Viva-Voce | 10% | 10 | End of the semester | 1, 2 |
| **Total** | |  | 100 |  |  |