

# Department of Mathematics

## SWOC Analysis

### Strengths

- The department has a well-knit, committed and hardworking faculty, who are not only competitive teachers but also share a strong sense of bond with their students.
- The teaching pedagogies are varied and real life simulation of various concepts are done on a regular basis.
- The teachers are always available for the students beyond the traditional classroom environment.
- Extra classes are arranged by the faculty for those who have a difficulty in getting a grasp of the concept being taught.
- Various bonding exercises and various mathematical activities are inculcated so that the class as a unit stays together thus creating a better environment both for the faculty and the students.
- The faculty members provide all students with academic guidance for their future in further education and career.
- The students are encouraged to explore beyond their prescribed curriculum by exposing them to various seminars, extension talks, lecture series etc., which are a regular feature of the department.
- The department, through its society, ASANKH, ensures that various facets of maths are learnt and developed at a young age through a wide array of extra-curricular activities.

### Weaknesses

- The department has not offered any certificate course.
- There is a dearth of computer labs in the college making it difficult to accommodate all the students and showing real life simulation of various equations taught in the classroom

- The college being far off from other DU colleges restricts our students from participating in various inter- college mathematical activities and innovations.
- The college is unable to accommodate a large number of audience due to unavailability of an auditorium

## Opportunities

- Workshops is one field where numerous options are available for our Department. Organising them for different fields of Maths can be beneficial for both the faculty and the students as they can a peek into what lies ahead in their field.
- Various Math contests can be organised so as to create an interest of this subject in which students from all over the university and of any discipline can participate in them.
- Take advantage of technology surrounding community.
- Extra classes can be organised for various students who want to study more of the advanced subjects which will prepare them better for further studies.
- Use positive reinforcement to encourage pupils and create a culture where pupils find Maths fun and challenging.

## Challenges

- It is a daunting task is to expose students who come from varied boards to the discipline's course content.
- The presence of low conversion of Ad-hoc faculties to permanent positions leads to uncertainty and lack of motivation amongst the faculties.
- The online mode of teaching posed an initial challenge with respect to training the faculty for online teaching platforms and maintaining student discipline.
- Language barrier; Weak in Maths Vocabulary