

Department of Mathematics & Statistics
Activities of the year 2018-2019

I] Extension, Co-curricular & Field based Activities

- Students pursuing their Ph.D programme from research institutes like TIFR underwent a training workshop of twelve lectures on the **Applications of Statistics and Statistical Software in Biological Research** in the months of July-August 2016 at Sophia College by Ms S Mendes.
- Ms. S.Mendes gave two talks on **Correlation Analysis** and **Probability distributions** for the students of TYBSc Life Science at Jai Hind College in September 2016 under the aegis of STAR College Activities
- Students of FYBSc, FYBA Statistics were given group presentations on various applications of Index Numbers such as a) Problems in creating an Index Number b) Application of Index Numbers in Chemistry and Biology c) Consumer & Wholesale Price index d) Cost of Living index e) Human development Index f) Use of Index Numbers in Finance. Students undertook to do a literature survey and presentation on these topics. .
- The students created the graphs of functions using EXCEL and MATHLAB under the guidance of Mrs. Mendes.
- A session on **R-Statistical software and its applications in Statistics** was conducted for the students of FYBA(Statistics).
- A session on **Use of EXCEL in the applications in Statistics** was conducted for the students of FYBSc(Statistics).
- A Certificate course on Data Application Using Excel was conducted for students of SYBA and TYBA. The course was of 10 sessions of two hours each and covered varied topics like Introduction to EXCEL, Formatting, Data Presentation and graphs, descriptive data analysis, Statistical Functions, Dispersion Functions, Correlation and Scatter diagrams. Eleven students successfully completed the course. The course was coordinated by Ms V Konar who taught the concepts along with Ms N Yadav (dept of Economics, Sophia College) and Ms Z Patel (Dept of Economics, H.R. College).
- Mrs. Mendes organised a One-day workshop on **Math – Websites** for the students of FYBSc Mathematics held at the Computer Lab, Sophia College on December,2018.

- In keeping with the theme “Education: A Celebration of Diversity”, the department of Mathematics and Statistics organised following events for the college festival ANANYA:

In keeping with the theme “Education: A Celebration of Diversity”, the department of Mathematics and Statistics organized “**Studo- Ludo with a twist**” on January 24,2018 in room no 11. Two rounds were conducted- an elimination and a final round. Students were asked to form a team of minimum two members . In the first round, each team had to answer 6 questions in 10 minutes. The top four teams with minimum time and maximum correct answer proceeded to the next round. In the final round, the teams had to play with the ludo board(which was prepared by SYBA volunteers). Each team had to answer four questions correctly in 10 minutes. For every right answer the team moved 3 steps ahead. For an incorrect answer the team remains stationary. Along with the participant’s mathematical and statistical skills, the game tested their logic, presence of mind and patience. The questions were based on statistical and mathematical concepts and logical reasoning questions. The winning teams were congratulated and given prizes. All the participants and volunteers received certificates for their efforts and participation.

II] Training Courses, Teaching-Learning-Evaluation Technology Programme, Faculty Development Programme:

- Ms. V. Konar delivered 15 lectures on Statistical Methods in Pathology to DCA students of Sophia College .
- Ms. S. Mendes delivered 15 lectures on Statistical Methods in Pathology to DCA students of Sophia College.
- Ms S Mendes delivered 3 lectures for QAFI on the **Statistical Tools used in Quality Control** in the month of September. The topics involved basic data collection methods, statistical measures and their applications in Food Tests.

III] Contribution to Department and college administration/activities :

Ms S Mendes:

- Head, Department of Mathematics & Statistics
- Member EXSP panel
- Member of Time table Committee (Science)
- Member of Admission Committee (Science)
- Member of Examination Committee (Arts)
- Member of Attendance Committee (Arts)
- Junior Supervisor for the College Examinations Theory

Ms V Konar

- Member of Attendance Committee (Arts)
- Member of Admission Committee (Arts)
- Member of Remedial Committee.