

**HOLY CROSS COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI
PG AND RESEARCH DEPARTMENT OF MATHEMATICS**

ASSOCIATION MEETING REPORT

2022-2023

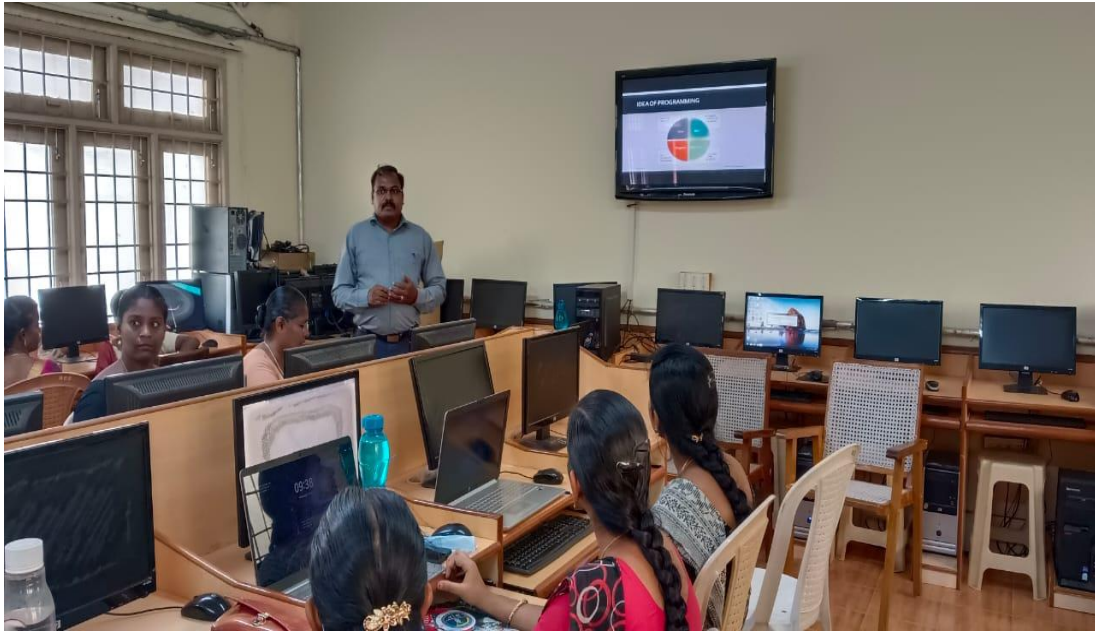
The PG and Research Department of Mathematics of Holy Cross College (Autonomous), Trichy conducted the In-service Faculty workshop on “**Python Programming**” on 12th July, 2022 in the E-learning hall, at 10 am with 35 staff members from the school of Mathematical and Computation Sciences.

The expert introduced Python on different platforms, example, creating a comment, Python indentation, Identifiers, variables, Python operators, loops, and simple programs, methods to handle big data and perform complex mathematics. The Resource person elaborated on the concept of Python Data types, Dimensions and statements. She also ingrained the different functions used in Python also its tuple and dictionaries.

The second day was initiated by Dr. Joseph Paramasivam, Assistant professor of Mathematics, Bishop Heber College (Autonomous), Trichy, on the topic “**R Programming**” presented an overall introduction on different programming languages the pros and cons of Scilab, Matlab, Python and R languages. He expounded the basic of R features and its environment with functions, its applicability in statistics, Mathematics, Biotechnology, varied package with graphical interpretation. He instilled its importance in the field of research and its compatibility in coding from multiple sources.



Python Programming



R Programming

The **Inaugural meeting of our Mathematics Association** was held on 24th August 2022 for the academic year 2022-2023. Our Chief Guest Dr. A. Tamilselvan, Associate Professor and Head, Chair, School of Mathematical Sciences, Department of Mathematics, Bharathidasan University, Tiruchirappalli, inaugurated the Mathematics Association, 2022. Sir elaborated the 21st century skills like problem posing, problem solving, analyzing, communication and critical thinking as essential ingredients for the need of a student's future career. He explained about the availability of various courses, scholarships and opportunities in International Universities that can be opted by the students after pursuing their Under Graduate and Post Graduate studies.



INAUGURATION OF MATHEMATICS ASSOCIATION

The first Association Meeting was held on 2nd September, 2022 at 2:30 pm in Shanthi Hall on the topic “**Conquer from within**”. The beneficiaries were I U.G. A & B-117, I P.G. A & B-33. The Chief Guest Dr. Peerbasha, Assistant Professor, Department of Computer Applications, Jamal Mohammed College, Tiruchirappalli, insisted everyone to identify their inherent potentials and their strengths so that they may overcome any obstacles and be competent in life. He motivated the students to focus on their goal and strive consistently towards achieving it. He emphasized on the role of an effective leader and their inevitability in guiding others to the path of success. Further, he urged everyone to overcome fear and face every challenge in life with a positive and courageous attitude. The session was very interactive and all the students eagerly participated in all the activities. The meeting successfully ended with God’s blessings and with a positive takeaway.



CONQUER FROM WITHIN

The Association Meeting was held on 6th September, 2022 from 10 AM to 4 PM in Sophy's hall on the Topic **“Re-search Explore and Excel”**. The students of II PG A & B – 62, III UG A, B & C– 174 participated in the session. The chief guest Dr. Balasubramani, Associate Professor, Department of Library and Information Science, Bharathidasan University, Tiruchirappalli insisted the students to cultivate the habit of reading, develop their research skills and gave an explanation on how to write research article. He gave a general idea to frame the structure of a journal, to select the area of interest and examine the source of review of literature. Sir suggested some journal finders, research indicators, open course materials in Mathematics, plagiarism checkers available online and information on E-resources. He also discussed about mind mapping tools with a demonstrative video. The students interacted and clarified their doubts on research.



RE-SEARCH EXPLORE AND EXCEL

The Association Meeting was held on 6th September, 2022 at Shanthi Hall at 2pm on the topic “**PRACTICAL SESSION ON SPSS**”. The beneficiaries are III UG A, B & C with a total of 168 students. The resource person Ms. S. Amirthavarshini, Visual Communication, Guest Faculty, Media and Communication, Bharathidasan University, Tiruchirappalli – 620 020. She gave a brief introduction about SPSS and its varied applications in Research in all fields, illustrated the procedure of opening a data file in SPSS, explained about the types of correlations, bivariate analysis with SPSS, parametric test, non- parametric test and Analysis of Variance. She demonstrated the methods and stepwise procedure to input data in SPSS through a working example. Madam gave a clear illustration about the criteria and steps to enter the data in SPSS using a questionnaire. The session was very useful and interactive. The students volunteered themselves to do the activities that was given by the resource person and clarified their doubts about SPSS.



PRACTICAL SESSION ON SPSS

The **tour** was planned for three days from 25th to 29th September 2022 to Kerala and Cochin. The students gathered in the campus around 7.30 pm, started from the college at 9.00 pm with prayer and guidance of our department staff. A total of 150 students of III UG and II PG along with four staff members went for a trip from Trichy to Kerala and covered places Malampuzha Dam, Athirapillay Falls, Cherai Beach and reached Cochin. On day two, we visited Ernakulam boating and Wonderla theme park. On the next day, they travelled to see the beautiful sights of hills, highest view point, adventurous trip to tea estates through jeep. By the grace of God, we safely reached our college campus at 5.00 am on 29th September, 2022.



TOUR PHOTOS