

Report of the Two Day Workshop on Research Methodology at SN College Kollam during 27-28 March 2017

Research is an essential of higher education in the world today. Research centres and universities are expected to conduct genuine and high quality research which has impact on the society. The research methodology refers to the overall strategy that one choose to integrate the different components of the study in a coherent and logical way, thereby ensuring to address the research problem effectively. The way we approach a research problem will have a profound effect upon the final result we end up with. Methodological issues in research publication, publication ethics, use and misuse of statistics in research and availability of resources for reading material is also crucial among the research scholars in the state. Explaining the methodology while writing a research proposal and scientific article helps others know the significance of the particular research. At this context, Department of Chemistry, SN College Kollam organised a two day workshop on "Research Methodology, Writing Practices, Languages and Soft Skills" at Seminar Hall, Sree Narayana College during 27-28 March 2017. This course was expected to impart research skills to the beginners and help to improve the quality of research by the existing researchers. The workshop was designed in such a way that it cover the basics of research methodology, formulation of research problem, conducting literature review, data collection methods, selection of appropriate statistical methods for analyzing data, report writing and intellectual property rights. About 60 participants which include PG students, research scholars and faculties were registered for the workshop and majority of the delegates were women from the colleges at Kollam.

The workshop was inaugurated by Dr. M. Padmanabhan, Professor, Department of Chemistry, School of Arts and Science, Amrita Vishwa Vidyapeetham University at 10.00 am on 27/3/2017. His inaugural address inspired the audience which included PG students, Research Scholars and faculty members from the local colleges of Kollam. He motivated the students of

conducting genuine and high quality research. Dr. Premkumar, Principal in Charge presided over the function and Dr. V L Pushpa, Head, Department of Chemistry, SN College welcomed the audience and distinguished guests. Dr. Sreedevi Sreedharan, Associate Professor, Department of Botany delivered a felicitation address and the inaugural function was concluded by the vote of thanks by Dr. Smitha Sasidharan, Convenor of the workshop.



Dr. V L Pushpa delivering welcome speech at Inauguration function



Inaugural address by Dr. M. Padmanabhan



Lighting up of the lamp at inaugural session



Felicitation by Dr. Sreedevi Sreedharan



Vote of thanks by Dr. Smitha Sasidharan at inaugural session



Audience during the inaugural session

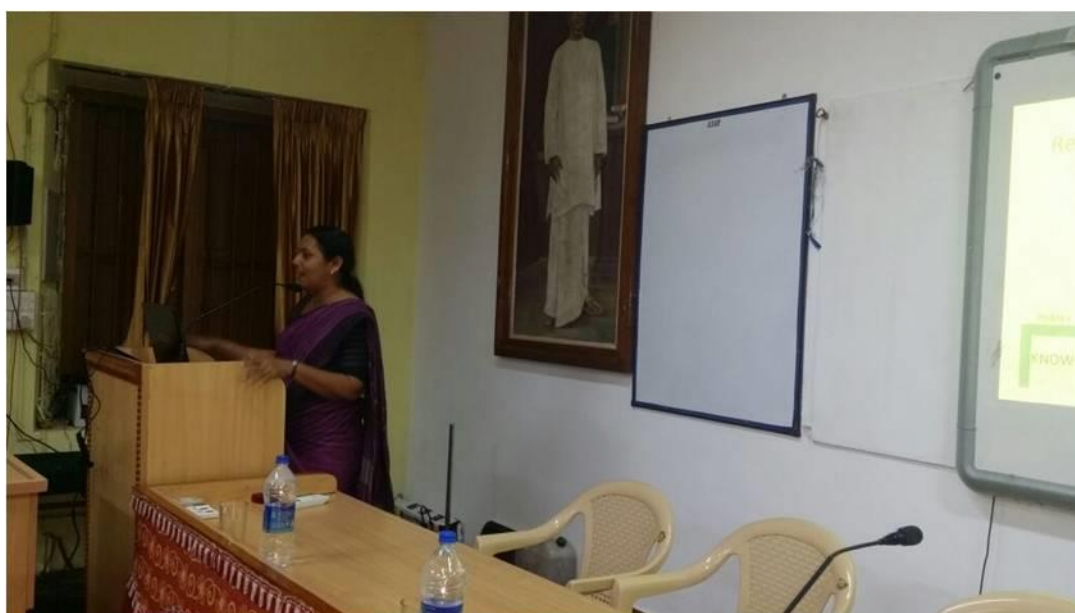
The workshop was conducted in both lecture and interactive mode. In addition to the interactive classroom lectures the participants was introduced to the use of selected statistical packages like MS Excel/Microcal origin. The technical session started with the invited talk by

Dr. Rosamma Philip, Associate Professor, Mount Tabor Training College, Pathanapuram at 11.30 am following inaugural session. She delivered the talk on the topic " Role of creative thinking in research/Personal skills for overcoming barriers in research" and she talked about the different IQ and EQ levels found in various kinds/stages of beings. Her talk discussed the problems, challenges and barriers one may encounter during their doctoral studies and she emphasised the need of developing personal skills and positive approach to overcome the hurdles and difficulties in research life.

After lunch break technical session II started with the invited talk on the topic "Data Analysis: Tools and Techniques" by Dr. Keshava Mohan, Academic Chairman and Director, School of Management Studies, SNIT Adoor. He gave an insight into the various methods of data analysis and discussed different process of sampling methods. Technical session II continued with the talk on "Patenting and IPR for Research" by Dr. I G Rathish,, Assistant Professor and Coordinator IPR facilitation Cell, CUSAT. He give an introduction to intellectual property rights and its different forms. In his talk he discussed about the discoveries which can be patented and also gave an idea about the different patent searching website and its uses

Second day of the workshop started with the talk on "Funding Sources at State, National and International Levels" by Dr. Ani Deepthi, Assistant Professor, Department of Chemistry, Kerala University. She discussed about the possibilities of funding for research at national as well as international levels. Audience were able to learn about the funds by various funding agencies to pursue their doctoral and postdoctoral studies. The students who were interested in research funding interacted with her even after the talk and the talk was highly useful for the post graduate students as well as for young researchers. Technical session III contined with the lecture on "Research Methodology: Literature Survey and Manuscript Preparation" by Dr. Bijitha B, Scientist, Photochemistry Division, NIIST (CSIR), Trivandrum. Her talk discussed about the systematic way to carry out a research. The delegates learned about various methods of literature

search, formulation of hypothesis, collection of data, and its analysis and interpretation. Following the tea break Dr. Asha S, Scientist from IPR, KSCSTE delivered a talk on "Patent Filing and Intellectual Property Rights". She discussed about the geographical indications of intellectual property rights and the rules and fee structure for filing a patent. A hands on training programme was organized for the delegates in the afternoon technical session and Dr. Rijith S, Assistant Professor, Department of Chemistry, SN College Kollam lead the training programme. He emphasized the need of generating the self explanatory graphs while preparing the manuscripts and gave the directions to plot such graphs using Microcal Origin Software. The session was interactive and the delegates were given the datas to plot graphs using their own laptops and the faculties of chemistry department assisted the resource person to handle the session. The photographs of technical session follows:







After this technical session the two day workshop was concluded in the valedictory function and Dr. K Serji, Associate Professor, Department of Chemistry presided over the function. Dr. Manoj SV welcomed the delegates in the concluding session and the participants shared their views and opinions about the workshop in the valedictory function. According to the participants the workshop was successful in creating a general awareness on the systematic way of carrying out the research and the significance of its publication and patenting. They were highly inspired by the talk on development of personal skills for overcoming barriers in research. The organizing committee distributed the participation certificates for the delegates in the session. On behalf of the organising committee, Dr. Smitha Sasidharan, Convenor of the workshop, acknowledged all the delegates, resource persons and KSCSTE for sponsoring the workshop.