

## **Report of a Workshop on Research Methodology in Physics**

Department of Physics of Alva's Institute of Engineering and Technology has organized a Workshop on Research Methodology in Physics RMP-2017 during September 29-30, 2017. Dr. Ramaprasad A.T was the coordinator of the workshop and Dr. Shashikumar was the sub-coordinator of the workshop. 28 participants from the various fields were the present during this workshop and most of the participants were Ph.D research scholars.

All the sessions were systematically arranged keeping in mind the need of the research scholars. The sessions were as follows:

### **Day 1**

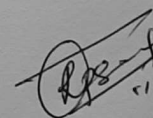
Dr. Ramaprasad welcomed the participants and gave an introductory speech as well as introduced Dr. Siddhartha P Dutttagupta, IIT Bombay was the resource person of day I: Research culture and how to write journal papers. Dr. Ramaprasad A.T, Department of Physics of Alva's Institute of Engineering and Tecnology felicitated Dr. Siddhartha P Dutttagupta with a flower buckeye.



**Photograph of participants in Research Methodology Workshop**

**Day I:** A series of lecture on Online Literature Search was given by Dr. Siddhartha P Duttagupta. He started his session with few questions. The entire session was very enlightening as many things were new to the participants and this session gave an idea how to search online reaches. Sir talked about various online catalogues like a library catalogue, library of congress, union catalogue and Incat: Indian catalogue. He also explained how to search scholarly data – original search and literature review. He explained various search strategies – PICO search approach, phrase search, type of document search, google: advance search, In url: topic/phrase etc. Sir also talked about various search engines like meta search engine, google scholar, academic search, intelligent search engine, subject directories, open access to various journals and various video search engines..

**Day II:** Mixed Method Research which was taken by Prof. Achanta Venu Gopal , TIFR, Mumbai. Sir began his session with an interactive activity which helps the participants to know about their nature and characteristics. Sir discussed the social world and world view which means a basic set of beliefs that guide action. He also talked about positivism, constructivism, transformative and pragmatism. He explained the basic meaning of mixed method which applies both the quantitative and qualitative research methods. He also talked about the philosophy behind mixed method in pragmatism which is arises out of action, situations and consequences rather than antecedent conditions. He also discussed why mixed method and characteristics of mixed method.



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