



### **A Report on Research Seminar (28.9.2020)**

PSG Institute of Technology and Applied Research, Coimbatore in collaboration with the Institution of Engineers (India) [IEI] organized a **Research Seminar** on 25<sup>th</sup> September 2020 in the college premises. Around 27 senior members of faculty from various departments participated in the research seminar. Dr P Subbaraj, Dean (Research-Electrical Sciences), welcomed the participants. He made a presentation listing all the agencies, which fund research projects.

In the first session, Dr.P.V.Mohanram, Principal, made an insightful presentation on **“Applying for Funded Projects: A Sample Preparation”**. Before the commencement of the session, the need to explore and experience the innate consciousness of every individual was emphasized by one of the songs penned by Thayumanavar, a famous Tamil philosopher and saint. The first session was divided into three sections:

- Industry-Institute Interaction Strategies
- Research and Development Work Strategies
- A Sample DST project presentation that was approved for funding in 2010

During the session, members of faculty were encouraged to involve in industry-relevant projects and engage in dialogue with industry experts for collaborative project works. Also the following points were emphasized:

- The need for electrically-driven equipments and developing control systems based on latest technologies like Machine Learning (ML), Artificial Intelligence (AI), Internet of Things (IoT) was stressed to uplift the research profile of the institution. Later, participants were requested to contemplate on the action plan for continuing the research work in their area.
- They were sensitized on step-by-step method of developing in-house technologies for addressing the challenges faced by the industries and societies, in general.
- It was also suggested to organize project contests for school students to instill research interests.

Besides, the importance of doing ground-level study and demonstrative capability to share the complete research design were also emphasized during the presentation. For enhancing



the quality of project presentation, participants were suggested to prepare a detailed and animated block-diagrammatic representation along with a working model. Conduct of periodic review meetings along with development work was recommended and researchers were strongly advised to conduct reliability test of critical components pertaining to the development work without fail. In addition, finding an industry partner for effective development and marketability of products was insisted for effective outcome of the product. Finally, the session was concluded with some fruitful strategies like flexibility and credibility in preparing the budget and other technical data related to the project.

In the second session entitled “**Innovation and Patent Filing**”, Prof.M.Alagar, Visiting Research Consultant (Chemistry), spoke about the three important components of leading a successful life from *Thirukkural*: gaining knowledge, material life, and enjoying a peaceful life.

At the outset, the distinction between innovation and invention was discussed with a technical example. He also stressed about the importance of patent filing and product development with novel ideas, which are complementary in nature. The roles and responsibilities of an effective teacher, especially mentoring, were also discussed. Citations, h-indexes, and impact factor, which are considered to be the three important components that defines the quality of academic institution, was underscored. Also, participants were motivated to inculcate different thinking skills that are required for doing effective research.

Further, the members of faculty were suggested to understand the holistic process in developing and patenting a product successfully in the market. Few other essential qualities required for a researcher like dedication and devotion were also discussed briefly in the presentation. In addition to steadfast commitment, researchers were encouraged develop the spirit of questioning for achieving the desired research outcomes. Two of his current research projects, industrial waste utilization and solid waste management, were also briefly discussed during the presentation.

Finally, Dr G Chandramohan, Vice-Principal, shared his closing remarks and proposed the vote of thanks. In his address, the complementary role of science and engineering in developing technologies was briefed. Lastly, he thanked all the participants and appreciated the organizers for their efforts in organizing the research seminar.



# PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH

(Approved by AICTE and Affiliated to Anna University)

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**Principal Dr PV Mohanram interacting with the participants on “Applying for Funded Projects: A Sample Preparation” during the first research seminar held on 28.9.2020**



**Prof.M.Alagar, Visiting Research Consultant (Chemistry), addressing the participants on “Innovation and Patent Filing” during the first research seminar held on 28.9.2020**