

BISHOP MOORE COLLEGE, MAVELIKARA

BEST PRACTICE

PRomotion and Enhancement of Research for a Nouveau Academia (PRERNA)

Title

PRomotion and Enhancement of Research for a Nouveau Academia (PRERNA)

Objectives

- To create an ecosystem of research in the campus
- To galvanize students to creatively contribute to the ever-evolving chain of knowledge
- To engage in cutting-edge interdisciplinary/multidisciplinary research contributing to sustainable development of the nation

Context

We live in the times of Third Industrial Revolution. Every decade brings in changes that previously took a century to happen. The College has identified the need to creatively sync the students and faculty to the demands of the time. A pressing need to ensure that the theory and praxis of cutting-edge research is embedded in the academic ecosystem of the College thus became an inevitable requirement. Thus evolved the practice of PRERNA (PRomotion and Enhancement of Research for a Nouveau Academia) to promote a research culture in the campus.

Practice

A major step towards the promotion of research culture in the campus was the formation of the [Interdisciplinary Research Committee](#) to monitor the prospects and provide directions. Subsequently, the [Development of Research Infrastructure](#) was accomplished by degrees

through the sanctioned projects including the [DST-FIST Scheme](#), [KSCSTE-SARD project scheme](#), [Major](#) and [Minor Research Projects](#).

The setting up of the [Centre for Advanced Functional Materials](#) as well as [Centre for Nanoscience and Human Milk Research](#) (Research Centres of Physics and Chemistry) saw the research culture being raised to notable standards. Faculty and students are inspired to [publish papers in international journals](#) and present papers in International/National Conferences. Faculty with PhD are encouraged to become Research Guides.

The research Departments ensure that students **imbibe the research culture of reputed institutes** like IITs, NITs, IISc, IGCAR and IISER by helping them to carry out [Summer Research Projects](#) there. They are also encouraged to undertake **State Funded Projects** under KSCSTE. Brainstorming on the results as well as problems encountered is done through **weekly meetings and presentations** of Research Scholars and faculty.

Opportunities are provided for students and faculty to meet and learn from renowned researchers across the globe through programmes like **ERUDITE Scholar -in Residence Programmes, Conferences and Workshops**. [Collaborations and MoUs](#) with reputed institutes promote interaction between institutes. Research scholars are given opportunities to **have first-hand experience of acquainting with cutting-edge research happening around the world** through [short term visits at institutes like the University of NewCastle, Australia, and Sunway University, Malaysia](#).

The incremental growth in the research output is witnessed in the increasing number of international **publications** and in the granting of **patents**.

Evidence of Success

1. [Consistent and progressive NIRF ranks. Ranked 51 in College Category in NIRF Ranking 2023](#)
2. [Yearly increment in the number of publications](#)
3. [Intellectual Property - Patents granted](#)
4. [Alumni pursuing research in International Universities - Ireland, Australia, IISER and IIST](#)
5. [Student Innovation being recognised at the State/National/International Levels](#)

Problems Encountered and Resources Required

1. Problems in connecting with industry to market our research
2. Limited access to cutting edge measuring instruments in institutions of national importance