

DEPARTMENT OF SCIENCE AND HUMANITIES

Research Activities

Over the years, the Institute has earned respect and distinction stemming from sharp and serious academics it practices, an inspiring environment, and creditable performance of its alumni, spread worldwide. Individual and personalized research has evolved quite well and persons of eminence populate its faculty. Publication statistics are impressive and citations are noteworthy. The culture of seeking competitive funding from national and international bodies is well in place.

We aim to take on grand challenges. We also aim to serve the nation even better by offering insightful advice in a more effective manner. These are aims that we work towards through actions based on discussions and consultations.

The MKCE Management primarily facilitates the conduct of sponsored research of its faculty. It plays a supporting role in creating contacts with the real world and promotes faculty research through a variety of publications. Enabling an ambience for technology development and patents is a priority. Much of its activities are fully described in its website.

The cell of R&D takes upon itself the responsibility of creating a work place towards which the best talent would migrate naturally. It enables pooling of skills and resources, creates strategy, and helps overcome systemic limitations, so that the Institute can be counted among the best in the world.

Research & Development activities are carried out in the Department of Science & Humanities under aegis of Thrust Area Group (TAG) in each department. The TAG is headed by a person with Doctorate specialized in a particular thrust area. The faculty members of the department carry out their research in the specified trust area and discuss their research problems through brain storming session during the TAG meeting. The TAG group has published their research work in many reputed international journals and also presented their work in national and international conferences.

Department of Mathematics:

The department of Mathematics aims to promote research activities in various emerging fields of Pure and Applied Mathematics. The faculty members pursuing Ph.D are actively involved in research and they act as a motivating factor for the other faculty members to involve in research activities.

Area of Research

- Operations Research
- Graph Theory
- Differential equations
- Fuzzy Optimization
- Number Theory
- Topology

Department of Physics:

The department of Physics Research Center established in June 2017 has focused on multidimensional growth for the development of Science & Technology in our institution. The research program of the center has been focused on both thematic areas of national importance and basic research with importance to the development of Material Science and Nonlinear Dynamics.

Area of Research

- Nonlinear Dynamics
- Material Science
- Nanocomposites
- Nonlinear optics
- Crystal Growth and Thin Films
- Nanotechnology

Department of Chemistry

The department of Chemistry Research Center established in June 2017 has focused on both basic and applied areas of Analytical Chemistry, Bio-organic Chemistry and Synthesis of Smart Materials. Research on Basic Chemistry is focused on growth for the development of Science & Technology in our institution. Research and development in applied and Analytical areas focuses on:

Area of Research

- Applied Materials Nano synthesis
- Phytochemistry/ Medicinal Values
- Synthetic Organic Chemistry
- Coordination Chemistry with Bioinorganic chemistry
- Radiopharmaceutical
- Complex crystal growth and Molecular docking studies
- Electrochemistry
- Water Technology/Pollution Abatements

Department of English

The department of English aims to promote research activities in various emerging fields of English Language and English Literature. The faculty members pursuing Ph.D are actively involved in research and they act as a motivating factor for the other faculty members to involve in research activities

Area of Research

- English Language Teaching
- English Literature

**DEPARTMENT OF SCIENCE & HUMANITIES
FACULTY WARDS RECEIVED**

S. NO	NAME OF THE FACULTY	AWARD	AUTHORIT/ INSTITUTION	YEAR
1	Ms. R. Padmavathi	Best Paper in international conference FAMA 18	Bishop Heber College, Trichy.	9-Jan-2018
2	Dr. Jeyalakshmi	Young scientist award in National conference (06.04.2018)	Karunya University, Coimbatore.	6 – Apr- 2018
3	Dr.L.Guru Prasad	Best Paper in National conference NCNP- 16	Bharathidasan University, Trichy	18-Mar-2016
4	N.Sumathi & Dr.R.Raja Jeyaganthan	Best Paper in National conference FIB-16	Jamal Mohamed College, Trichy	5-Mar - 2016
5	Dr.L.Guru Prasad	Best Paper in National conference AMSNS-16	K.S.R College of Engineering, Tiruchengode, Erode	7/8 Jan-2016
6	Dr.E.Edward Anand	Reviewer in Materials and Manufacturing Process	Taylor&Francic Group, LLC	21 Dec-2015
7	Dr.J.Tennis Anthuvan	Judge in Science and mathematics for a inclusive Development Exhibition	The Chief Educational officer, Karur	24-Nov 2015
8	R.Saranya	Best Paper in National conference NSNN-2013	Karunya University	1-Oct 2013
9	N.Sivakumar	Best Paper in National conference NCETMM-2015	KSR College of Arts and Science for Women, Tiruchengode, Erode	7-Oct- 2015
10	Dr.J.Tennis Anthuvan	Judge in INSPIRE Science Exhibition	The Chief Educational officer, Karur	24-July 2015
11	Dr.L.Guru Prasad	Best Project Guide	The Institution of Engineers (India), Tamil Nadu center	6/7 March - 2015
12	S.Shanmuga Prema	Best Paper in National conference AFCB-	Kongu Engineering College, Perundurai	12 – Sep-2014
13	R.Saranya	Best Paper in National conference NCNP- 2014	Bharathidasan University,	6/7 March- 2014
14	F.Beulah Elizabeth	Best Paper in National conference	Bon Secours College for women,	24/25 Jan-2014