

DEPARTMENT OF MATHEMATICS & CENTRE FOR TOPOLOGY AND APPLICATIONS (CETA)

SUMMER INTERNSHIP PROGRAMME

Objective: To encourage students to understand real world applications and pursue an innovative research and development project leading to close conglomerates and collaborations between institutions.

Thrust areas:

- Topology
- Topological Data Analysis
- Complex Dynamics
- Operations Research
- Dynamical systems
- Graph Theory
- Mathematical Morphology
- Chaos Theory
- Fractal Geometry
- Fuzzy Logic and Fuzzy sets

Eligibility:

Final year undergraduate/ postgraduate students in Mathematics/Statistics/Computer Science/Data Science with good academic records can apply.

Selection:

Based on academic performance and research aptitude.

Nature of internship: There are two categories of internship.

Category 1: For students who wish to have a glance of applications and research developments in any one of the thrust areas.

Duration: 15 days.

Category 2: For students who wish to involve in research projects in any one of the thrust areas.

Duration: 45 days.

Fee for internship: Rs.500/ for 15 days internship and Rs.1000/ for 45 days internship

Accommodation: Paid accommodation will be provided.

Link for Registration: <https://forms.gle/FXMdzVcYpX6M3igZ6>

Apply on or before 30th April, 2023

For more details Contact: Radhika Das: 8547733996

Vinmol K. Jesudas: 9495224897



About the Institution

Rajagiri School of Engineering & Technology (RSET)-Rajagiri Valley, Kochi, is a premier autonomous educational institution offering excellence in engineering education and research. Managed by the Sacred Heart Province of the Carmelites of Mary Immaculate (CMI) congregation, RSET is a part of the Rajagiri Vidyapeetham (seat of knowledge), a dream eternal, being unfolded in time through the relentless CMI quest for excellence in the pursuit of Wisdom. The dream is a wide network of institutions and centers providing quality education from pre-primary to doctoral programmes of specializations and super-specializations and seeking alternatives to the conventional mainstream efforts. As an institution which bears the traditional Rajagiri hall mark of academic brilliance and social commitment, RSET has successfully carved a niche for itself in the sphere of engineering education in the state.

About the Department

In the past few decades, the industrial and technological fraternities have undergone changes that reflect the need for engineers with a sound background in pure sciences, especially Mathematics. The Department of Mathematics at RSET strives to build future engineers with this ability. The department offers core mathematics courses both at the undergraduate and post-graduate levels, and offers a Ph.D. programme.

About CETA

CETA aims at promoting original research in Topology and related areas which include Topological Dynamics, Chaos Theory, Fractal geometry, Complex Dynamics, Data Analysis, Operator Theory, Morphology, Graph theory, Fuzzy logic, Signal processing etc. The centre has research collaborations with institutions in India and abroad. Many renowned Mathematicians and Scientists have visited the centre to deliver talks. Activities of the centre are financially supported by the National Board for Higher Mathematics and the Department of Science and Technology, India.