

Department of Physics

The **Department of Physics at DSATM** is committed to advancing high-quality research in both fundamental and applied physics, with a focus on addressing current scientific and technological challenges. The department promotes an interdisciplinary research environment that encourages innovation, sustainable development, and the application of scientific knowledge for the benefit of society, in line with national and international research goals.

The faculty actively pursues research in several emerging areas, including:

- Advanced Materials and Nanoscience
- Condensed Matter and Solid-State Physics
- Energy Materials and Renewable Energy Technologies
- Semiconductor Physics and Electronic Materials
- Photonics, Optics, and Laser Science
- Computational Physics and Modeling

The department nurtures a research-driven academic culture by encouraging student involvement in research projects, fostering collaborations with academic institutions and industries, and supporting the development of innovative solutions with real-world relevance. Through these initiatives, the department strives to create an intellectually stimulating environment that promotes scientific excellence, critical thinking, and lifelong learning.

Research Supervisors



Dr.N. Nallamuthu

Number of PhD awarded=5

Number of candidates registered for PhD = 0



Dr. Y. Srilatha

Number of PhD awarded= 0

Number of candidates registered for PhD = 2

Area of Interest

Magnetic Materials

Permanent Magnet Materials

rGO based sensors

Micromagnetic Simulations



Dr. P. Devendran

Number of PhD awarded = 4

Number of candidates registered for
PhD = 2

Area of Interest:

Nanomaterials and Thin films for

Energy Storage Devices

(Supercapacitors, Hybrid Batteries) &

Photocatalytic Applications



Dr. Girish KM

Number of PhD awarded= 1

Number of candidates registered for PhD = 3

Area of Interests

Nanomaterials

Photoluminescence applications : LED, displays

Photocatalytic: Water splitting, Dye Degradation

Energy Storage Devices: Battery Supercapacitor



Dr. Madhusudhana H C

Number of PhD awarded = NIL

Number of candidates registered for PhD = NIL

Area of Interest:

- ☐ Material science
- ☐ Energy storage nanomaterials
- ☐ Dielectric, Battery and supercapacitors



Dr. Sripan C

Number of PhD awarded = NIL

Number of candidates registered for PhD = NIL

Area of Interest:

- ☐ Inorganic thin films for solar cell applications,
- ☐ Nanostructured thin films for semiconductor applications,
- ☐ Energy storage nanomaterials,
- ☐ Synthesis and characterization techniques (physical and chemical methods)