

Ph.D. in Physics



The Department of Physics, SRM University-AP, is inviting applications for its full-time Ph.D. programme from highly motivated and passionate students for the academic year 2025-26.

Eligibility Criteria

First Class Master's degree and Bachelor's degree in Physics

We Offer

- Fellowship of **₹36000/-** per month for the first two years and **₹41000/-** per month for the next two years
- Professional Development Grant (PDG) of **₹20000/-** (per annum) for first two years and **₹30000/-** (per annum) for the subsequent two years
- Full waiver of annual tuition **₹41000/-**
- Subsidised boarding & lodging/transport facility

Selection Process

- Written test followed by a personal interview
- Candidates with valid GATE scores are exempted from the written test

DEPARTMENT HIGHLIGHTS

9.71Cr

TOTAL OUTLAY FOR
RESEARCH PROJECTS

370

➔ RESEARCH
PUBLICATIONS

260

➔ Q1 JOURNAL
PUBLICATIONS

28

➔ GOVT. FUNDED
PROJECTS

27

➔ NATURE INDEX JOURNAL
PUBLICATIONS

15

➔ PATENTS

Contact Details

Interested candidates can apply here <https://shorturl.at/hjLT9>

Dr Supravat Dey

+91 9866976817

Know more
about Dept.



Know more
about Research



Our Faculty



Prof. C V Tomy

Dean-SEAS and Professor

Expertise

1. Low Temperature Physics
2. Magnetism and Superconductivity
3. Manganites, Thermoelectric materials, Multiferroic compounds



Prof. Ranjit Thapa

Dean Research and Professor

Expertise

1. Quantum Mechanics/Machine Learning Approach
2. Catalyst: Theory
3. Carbon and Boron Based Materials



Dr Soumyajyoti Biswas

Assistant Professor & Head of the Department

Expertise

1. Statistical physics, complex systems, machine learning
2. Fracture, breakdown and earthquakes
3. Multi-agent models of society.



Dr Pranab Mandal

Associate Professor

Expertise

1. Materials synthesis
2. Piezoelectrics and ferroelectrics
3. Magnetoelectric multiferroics



Dr Sabyasachi Mukhopadhyay

Associate Professor

Expertise

1. Optoelectronic Materials
2. Molecular Electronics
3. Atomic Force Microscopy



Dr Johannes Kirscher

Associate Professor

Expertise

1. Universal properties of few-body systems
2. Effective Field Theories
3. Quantum dynamics in classical, extreme background fields



Dr Jatis Kumar Dash

Associate Professor

Expertise

1. Fabrication of 2D materials for Flexible Nanoelectronic Devices and Sensors
2. Green energy and Hydrogen evolution
3. Synthesis of Energy materials and supercapacitors



Dr Gangi Reddy Salla

Associate Professor

Expertise

1. Quantum Optics
2. Free optical communication
3. Quantum Sensing



Dr Laxmi Narayana Patro

Associate Professor

Expertise

1. Solid state ionics
2. Materials for solid state batteries and chemical sensors
3. Nonlinear conductivity



Dr Amit Chakraborty

Assistant Professor

Expertise

1. Theoretical Particle Physics
2. Higgs boson Physics, Jet Substructure Physics, Dark Matter Phenomenology
3. Machine Learning Applications for Physics Beyond the Standard Model



Dr Mallikarjuna Rao Motapothula

Assistant Professor

Expertise

1. Discovery of Heterogeneous catalysts.
2. Ion beam applications.
3. Functional nanostructures.



Dr Siddhartha Ghosh

Assistant Professor

Expertise

1. Novel Physics at exotic interfaces grown by pulsed laser deposition (PLD)
2. Wettability studies of metal-oxide thin-film surfaces
3. Nano-magnetism in transition metal oxides (TMO) and metal-organic frameworks (MOF)



Dr Supravat Dey

Assistant Professor

Expertise

1. Statistical Physics
2. Soft-matter
3. Biophysics



Dr Debabrata Pramanik

Assistant Professor

Expertise

1. Computational Biophysics
2. Statistical Physics
3. Rare Events Sampling



Dr Pankaj Bhalla

Assistant Professor

Expertise

1. Quantum Transport
2. Quantum engineered Thermoelectrics
3. Theoretical and Computational Quantum Condensed Matter Physics



Dr Ravi Kumar

Assistant Professor

Expertise

1. Optical Information Processing
2. Digital Holography
3. Computational/Optical Imaging



Dr Ashmita Das

Assistant Professor

Expertise

1. Semiclassical Gravity Theories
2. Unruh- Fulling Effect and its Applications
3. Relativistic Quantum Information & Quantum Gravity Phenomenology



Dr Anita Halder

Assistant Professor

Expertise

1. First principles electronic & magnetic structure calculation
2. Study of strongly correlated materials
3. Machine learning assisted materials prediction



Dr Basabendu Barman

Assistant Professor

Expertise

1. Particle Physics Phenomenology
2. Early Universe Cosmology
3. Collider Phenomenology



Dr Nilakantha Meher

Assistant Professor

Expertise

1. Quantum Optics
2. Quantum Information Processing, Entanglement
3. Quantum interferometry, Optomechanics



Dr Krishna Prasad Maity

Assistant Professor

Expertise

1. 2D semiconductors and ferroelectric
2. Conducting polymers
3. Neuromorphic computing



Dr Swetamber P Das

Assistant Professor

Expertise

1. Nonlinear Dynamics and Chaos
2. Complex Systems
3. Nonequilibrium Physics



Dr Arghya Dutta

Assistant Professor

Expertise

1. Machine learning
2. (Bio)-Material design
3. Quantum mechanics

