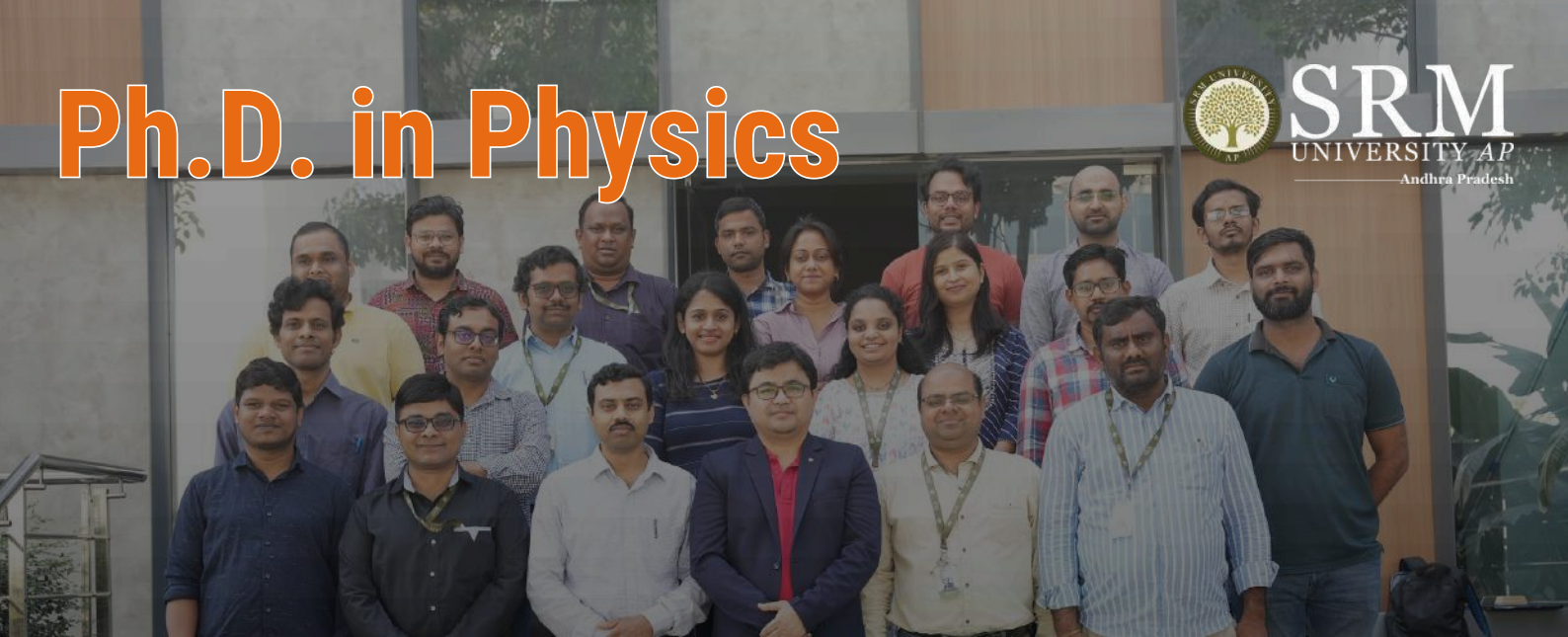


Ph.D. in Physics



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 2026-27.

Research Areas

- Advanced Materials and Device Physics
- Laser Physics and Photonics
- High Energy Physics
- Computational Materials and Soft Matter Physics

Eligibility Criteria

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

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Selection Process

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



Written Test Date: October 31, 2026

Application Deadline: October 20, 2026

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

27 Total Ph.D. completed

Current Ph.D. strength **59**



Contact Details

Dr Supravat Dey

+91 9866976817

Know more about Dept.



Know more about Research



Faculty Members



Prof. Ranjit Thapa

Professor and Dean Research
PhD: Jadavpur University

✉ ranjit.t@srmap.edu.in

261 **14** **9200** **49** **3**
Publications Projects Citations H-Index Patent

Research Interests

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



Prof. C V Tomy

Professor and Dean-SEAS

✉ tomy.cv@srmap.edu.in

166 **2454** **27**
Publications Citations H-Index

Research Interests

1. Materials Land slide susceptibility analysis using Remote sensing
2. Improving the accuracy of Digital Multi-spectral land cover classifications



Dr Soumyajyoti Biswas

Associate Professor & HoD

PhD: Saha Institute of Nuclear Physics, India

✉ soumyajyoti.b@srmap.edu.in

75 **2** **1385** **20**
Publications Projects Citations H-Index

Research Interests

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



Dr Sabyasachi Mukhopadhyay

Associate Professor

PhD: Jawaharlal Nehru Centre for Advanced Scientific Research

✉ sabyasachi.m@srmap.edu.in

38 **3** **2993** **13** **5**
Publications Projects Citations H-Index Patents

Research Interests

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



Dr Gangi Reddy Salla

Associate Professor

PhD: PRL, Ahmedabad, India

✉ gangireddy.s@srmap.edu.in

67 **2** **1164** **21** **1**
Publications Projects Citations H-Index Patents

Research Interests

1. Scalar and vector optical vortex beams
2. Free space optical communication
3. Polarization speckles



Dr Pranab Mandal

Associate Professor

PhD: Jawaharlal Nehru Centre for Advanced Scientific Research

✉ pranab.m@srmap.edu.in

50 **2** **3131** **25** **4**
Publications Projects Citations H-Index Patents

Research Interests

1. Pb-free Piezoceramics
2. Oxide ion conductors
3. Sensing Devices for Biomedical applications



Dr Jatis Kumar Dash

Associate Professor

PhD: Institute of Physics (IOP), Bhubaneswar

✉ jatis.d@srmap.edu.in

54 **2** **1298** **19** **2**
Publications Projects Citations H-Index Patents

Research Interests

1. 2D materials and device applications
2. Optoelectronic Memory and sensing devices
3. Supercapacitors and Green Hydrogen evolution



Dr Laxmi Narayana Patro

Associate Professor

PhD: IIT Madras, Chennai

✉ laxminarayana.p@srmap.edu.in

51 **2** **1128** **16** **1**
Publications Projects Citations H-Index Patents

Research Interests

1. Solid state ionics
2. Li-ion, Na-ion and F-ion batteries
3. All-solid-state batteries



Dr Siddhartha Ghosh

Associate Professor

PhD: University of Florida, Gainesville, FL, USA

✉ siddhartha.g@srmap.edu.in

51 **1** **1562** **18** **4**
Publications Projects Citations H-Index Patents

Research Interests

1. Physics at the interfaces
2. Wettability studies of metal-oxide thin-film
3. Nano-magnetism



Dr Umma Choppali

Associate Professor

PhD: University of North Texas, Denton, TX, USA

✉ uma.c@srmap.edu.in

19 **2254** **12**
Publications Citations H-Index

Research Interests

1. Synthesis and Characterization of Semiconducting Thin Films
2. Smart Electronics



Dr Amit Chakraborty

Associate Professor

PhD: IACS, Kolkata

✉ amit.c@srmap.edu.in

36 **1** **661** **11**
Publications Projects Citations H-Index

Research Interests

1. Theoretical Particle Physics
2. Higgs Boson and Dark Matter Phenomenology
3. Beyond Standard Model using ML



Dr Mallikarjuna Rao Motapothula

Assistant Professor

✉ mallikarjuna.m@srmap.edu.in

52 **2** **2900** **27** **1**
Publications Projects Citations H-Index Patents

Research Interests

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



Dr Supravat Dey

Assistant Professor

PhD: IIT Bombay, India

✉ supravat.d@srmap.edu.in

33 Publications **680** Citations **12** H-Index

Research Interests

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



Dr Debabrata Pramanik

Assistant Professor

PhD: Indian Institute of Science Bangalore

✉ debabrata.p@srmap.edu.in

19 Publications **1** Projects **362** Citations **10** H-Index

Research Interests

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



Dr Ravi Kumar

Assistant Professor

PhD: IIT (ISM) Dhanbad

✉ ravi.k@srmap.edu.in

71 Publications **1** Projects **1227** Citations **24** H-Index **1** Patents

Research Interests

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



Dr Nilakantha Meher

Assistant Professor

PhD: IGCAR, Kalpakkam

✉ nilakantha.m@srmap.edu.in

23 Publications **400** Citations **11** H-Index

Research Interests

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



Dr Swetamber P Das

Assistant Professor

PhD: IIT, Madras

✉ swetamber.p@srmap.edu.in

16 Publications **97** Citations **7** H-Index

Research Interests

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



Dr Arghajit Jana

Assistant Professor

PhD: Indian Centre for Space Physics, Kolkata, India

✉ arghajit.j@srmap.edu.in

57 Publications **1** Projects **1150** Citations **17** H-Index

Research Interests

1. Accretion and obscuration properties in AGNs
2. High energy astrophysics
3. Time-domain Astrophysics & Variability



Dr Soumyakanti Bose

Assistant Professor

PhD: S N Bose National Centre for Basic Sciences, Kolkata

✉ soumyakanti.b@srmap.edu.in

14 Publications **148** Citations **7** H-Index

Research Interests

1. Continuous-variable information theory
2. Light-matter interaction
3. Quantum communication



Dr Pankaj Bhalla

Assistant Professor

PhD: PRL, Ahmedabad, India

✉ pankaj.b@srmap.edu.in

37 Publications **2** Projects **660** Citations **13** H-Index **1** Patents

Research Interests

1. Topological Quantum Materials
2. Transport/optical properties in 2D materials
3. Many body physics



Dr Ashmita Das

Assistant Professor

PhD: IACS, Kolkata, India

✉ ashmita.d@srmap.edu.in

23 Publications **352** Citations **12** H-Index

Research Interests

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



Dr Basabendu Barman

Assistant Professor

PhD: IIT Guwahati

✉ basabendu.b@srmap.edu.in

53 Publications **1217** Citations **22** H-Index

Research Interests

1. Particle physics phenomenology
2. Early universe cosmology
3. Collider phenomenology



Dr Krishna Prasad Maity

Assistant Professor

PhD: IISc Bengaluru

✉ krishnaprasad.m@srmap.edu.in

19 Publications **392** Citations **10** H-Index

Research Interests

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



Dr Arghya Dutta

Assistant Professor

PhD: S N Bose National Centre for Basic Sciences

✉ arghya.d@srmap.edu.in

15 Publications **257** Citations **10** H-Index

Research Interests

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



Dr Rohit Babar

Assistant Professor

PhD: Indian Institute of Science Education and Research Pune

✉ rohit.b@srmap.edu.in

18 Publications **529** Citations **13** H-Index

Research Interests

1. Disorder in solids
2. Quantum materials
3. Qubit and color center modeling



Dr Ahmet Ilker Topuz

Assistant Professor

PhD: University of Tartu

✉ ahmetilker.t@srmap.edu.in

15 Publications **58** Citations **4** H-Index

Research Interests

1. Radiation Physics: Particle transport, source definition/setup, particle detectors, muon tomography, space applications, and shielding/dosimetry
2. Computational Methods: Monte Carlo simulations, probabilistic approaches, and statistical/deterministic numerical methods

Some of our former Ph.D. Students



Dr. Asif Iqbal

*Post-doc, Kesetarts
University, Thailand*



Dr Samadhan Kapse

*Post-doc, University
of Barcelona, Spain*



Dr. E. S. Erakula

*Post-doc, Virginia
Common Wealth
University, USA*



Dr Patnala Vanitha

*Post-doc, Gwangju
Institute of Science
and Technology,
South Korea*



Dr Y Bhaskara Rao

*Post-doc, Umea
University, Sweden*



Our Faculties



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

Associate 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 Gangi Reddy Salla

Associate Professor

Expertise

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



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 Laxmi Narayana Patro

Associate Professor

Expertise

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



Dr Siddhartha Ghosh

Associate 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 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 Debabrata Pramanik

Assistant Professor

Expertise

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



Dr Supravat Dey

Assistant Professor

Expertise

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



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



Dr Arghajit Jana

Assistant Professor

Expertise

1. Accretion and obscuration properties in AGNs
2. High energy astrophysics
3. Time-domain Astrophysics & Variability

Some of our former Ph.D. students



Dr Anjana Tripathi

*Post-doc, Denmark
Technical University*



Dr Samadhan Kapse

*Post-doc, University
of Barcelona, Spain*



Dr Deepak S Gavali

*Post-doc, Sejong
University Seoul,
South Korea*



Dr Patnala Vanitha

*Post-doc, Gwangju
Institute of Science
and Technology,
South Korea*



Dr Y Bhaskara Rao

*Post-doc, Umea
University, Sweden*



