

Sree Narayana College Chempazhanthy

NAAC Accreditation - (Cycle: 3) with Grade A Ranked 36 in KIRF Ranking by KSHEC



Department of Physics FVUGP 2025



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BSc Physics (Space Physics as Elective)

- BSc Physics: 3 years
- BSc Physics Honours: 4 years
- BSc Physics Honours with Research.

 4 years
- Fast track pathway: n-1 Semesters

Department Highlights

- · Well Qualified and Experienced Faculty
- Excellent Library and Laboratory Facilities
- 1CT enabled classrooms
- · Add-on Courses
- · Research Guidance



*subject to the final decision of authorities

Semester: 1

Discipline Specific Core Courses

Major: Foundation Course in Physics 1

Minor: Principles of Dynamics

Properties of Solids

Introduction to Mechanics and Energy resources Multi Disciplinary Course: Elementary Data Analysis

Semester: 2

Discipline Specific Core Courses

Major: Foundation Course in Physics 11

Minor: Electricity, Magnetism and Acoustics

Optics and Thermodynamics

Modern Physics

Multi Disciplinary Course:

Basics of Artificial Intelligence Beyond the Sky

Semester: 3

Discipline Specific Core Courses

Major: Basic Electronics

Minor: Digital Electronics and Data Science.

Solid State Physics and Spectroscopy

Heat, Magnetism and GeoPhysics

Discipline Specific Elective Course:

Fundamentals of AstroPhysics

Semester: 4

Discipline Specific Core Courses

Major: Classical Dynamics

Electromagnetics and Transient Currents

Discipline Specific Elective Course:

Solar Terrestrial Physics

Value Addition Courses:

Research and Publication Ethics Disaster management

Skill Enhancement Courses:

Basic Instrumentation Skills
Wiring and Electrical Devices
Summer Internship

Semester: 5

Discipline Specific Core Courses

Major: Optics

Quantum Mechanics 1

Thermodynamics & Statistical Mechanics Discipline Specific Elective Course:

> Solar and Plasma Physics Research Methodology

Skill Enhancement Courses:

Optics in Digital Photography
Programming in Java
Programming in Python

Semester: 6

Discipline Specific Core Courses

Major: Atomic and Molecular Physics Nuclear and Particle Physics

Solid State Physics

Discipline Specific Elective Course:

lonosphere and Magnetosphere Computational Physics

Numerical Methods in Physics

Skill Enhancement Courses:

Scientific writing
Computer Hardware and Assembling
Fibre Optic Technology
PCB Making and Designing

Semester: 7

Discipline Specific Core Courses

Major: Advanced Mathematical Physics

Quantum Mechanics 11

Discipline Specific Elective Course:

Frontiers of Space science Technology and Programming

Semester : 8 Capstone Internship Research Project Add-on Courses
Astronomy
Data Analysis with
Microsoft Excel



- · Researchers
- · Academicians
- · Civil Services
- · Scientific Assistants
- Geophysicists
- Space Research
 Organisations
- State and Central Government Services
- · Data Scientist

Our team



Dr Aranya S M.Sc., B.Ed., Ph.D. Assistant Professor & HOD Former Member, PG Board of Studies, Research Guide, University of Kerala



Jayasree K M.Sc., M.Phil. Assistant Professor



Ramesh Chandran B R M.Sc., B.Ed. Assistant Professor Former Member, PG Board of Studies



Aiswarya Mol N S M.Sc., B.Ed. Assistant Professor



Dr Vipin C Bose M.Sc., B.Ed., M.Phil., Ph.D. Assistant Professor



Shyama M S Lab Assistant

2024-2025







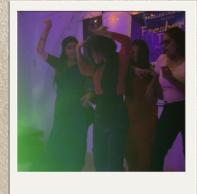












Our students Our pridethe heart and soul of all we do.