



Sree Narayana College
Chempazhanthy
NAAC Accreditation - (Cycle: 3) with Grade A



Department of Physics
FVUGP 2024



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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**
- **ICT enabled classrooms**
- **Research Guidance**



***subject to the final decision of University of Kerala**

Courses offered:

Semester : 1

Discipline Specific Core Courses

Major : Foundation Course in Physics 1

Minor: Principles of Dynamics

Properties of Solids

Multi Disciplinary Course: Elementary Data Analysis



Semester : 2

Discipline Specific Core Courses

Major : Foundation Course in Physics II

Minor: Optics and Thermodynamics

Modern Physics

Multi Disciplinary Course:

Basics of Artificial Intelligence



Semester : 3

Discipline Specific Core Courses

Major : Basic Electronics

Minor: Digital Electronics and Data Science

Heat, Magnetism and GeoPhysics

Discipline Specific Elective Course:

Fundamentals of Astrophysics



Courses offered:

Semester : 4

Discipline Specific Core Courses

Major : Classical Dynamics

Electromagnetics and Transient Currents

Discipline Specific Elective Course:

Solar Terrestrial Physics

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

Semester : 6

Discipline Specific Core Courses

Major : Atomic and Molecular Physics

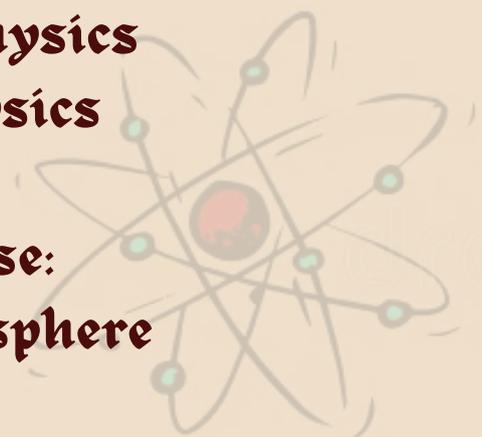
Nuclear and Particle Physics

Solid State Physics

Discipline Specific Elective Course:

Ionosphere and Magnetosphere

Computational Physics



Courses offered:

Semester : 7

Discipline Specific Core Courses

Major : Advanced Mathematical Physics

Quantum Mechanics II

Discipline Specific Elective Course:

**Frontiers of Space science Technology and
Programming**

Semester : 8

Capstone Internship

Research Project



- **Researchers**
- **Academicians**
- **Civil Services**
- **Scientific Assistants**
- **Geophysicists**
- **Space Research Organisations**
- **State and Central Government Services**

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



Manu K.B. M.Sc., B.Ed.
Assistant Professor



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



Soja L M
Lab Assistant