ACHARYA

ACHARYA INSTITUTE OF GRADUATE STUDIES

Affiliated to BCU

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- Engage with renowned faculty and access LinkedIn extensive programs.
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- Expand horizons with international immersion and global exposure.
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- Enjoy top sports facilities and expert training for holistic development.
- Achieve career success with 550+ companies visiting for placements annually.

M.SC PHYSICS

About

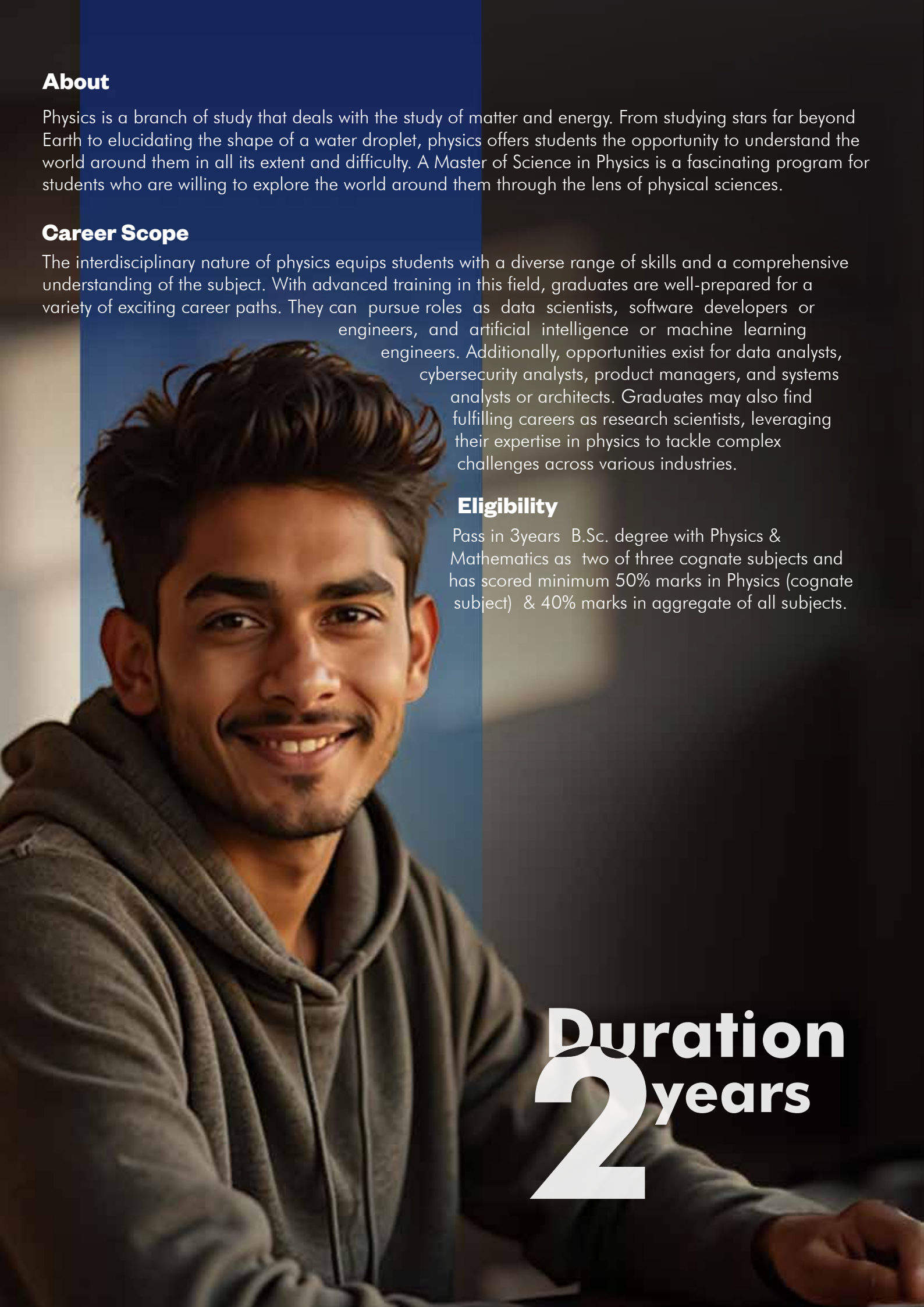
Physics is a branch of study that deals with the study of matter and energy. From studying stars far beyond Earth to elucidating the shape of a water droplet, physics offers students the opportunity to understand the world around them in all its extent and difficulty. A Master of Science in Physics is a fascinating program for students who are willing to explore the world around them through the lens of physical sciences.

Career Scope

The interdisciplinary nature of physics equips students with a diverse range of skills and a comprehensive understanding of the subject. With advanced training in this field, graduates are well-prepared for a variety of exciting career paths. They can pursue roles as data scientists, software developers or engineers, and artificial intelligence or machine learning engineers. Additionally, opportunities exist for data analysts, cybersecurity analysts, product managers, and systems analysts or architects. Graduates may also find fulfilling careers as research scientists, leveraging their expertise in physics to tackle complex challenges across various industries.

Eligibility

Pass in 3years B.Sc. degree with Physics & Mathematics as two of three cognate subjects and has scored minimum 50% marks in Physics (cognate subject) & 40% marks in aggregate of all subjects.



Duration

2 years

COURSE CONTENT

Semester 1

- Mathematical Methods of Physics-I
- Classical Mechanics
- Classical Electrodynamics
- Electronic Circuits and Devices
- General Physics Lab
- Electronics Lab
- Techniques in Biophysics

Semester 2

- Mathematical Methods of Physics-II
- Quantum Mechanics I
- Statistical Mechanics
- Atomic physics, Molecular Physics and Modern Optics
- Optics Lab
- Computational Physics Lab
- Experimental Techniques

Semester 3

- Quantum Mechanics II
- Computational Physics
- Nuclear and Particle Physics (General)
- Condensed Matter Physics (General)
- Condensed Matter Physics (Elective)
- Advanced Physics lab 1
- Advanced Physics lab 2

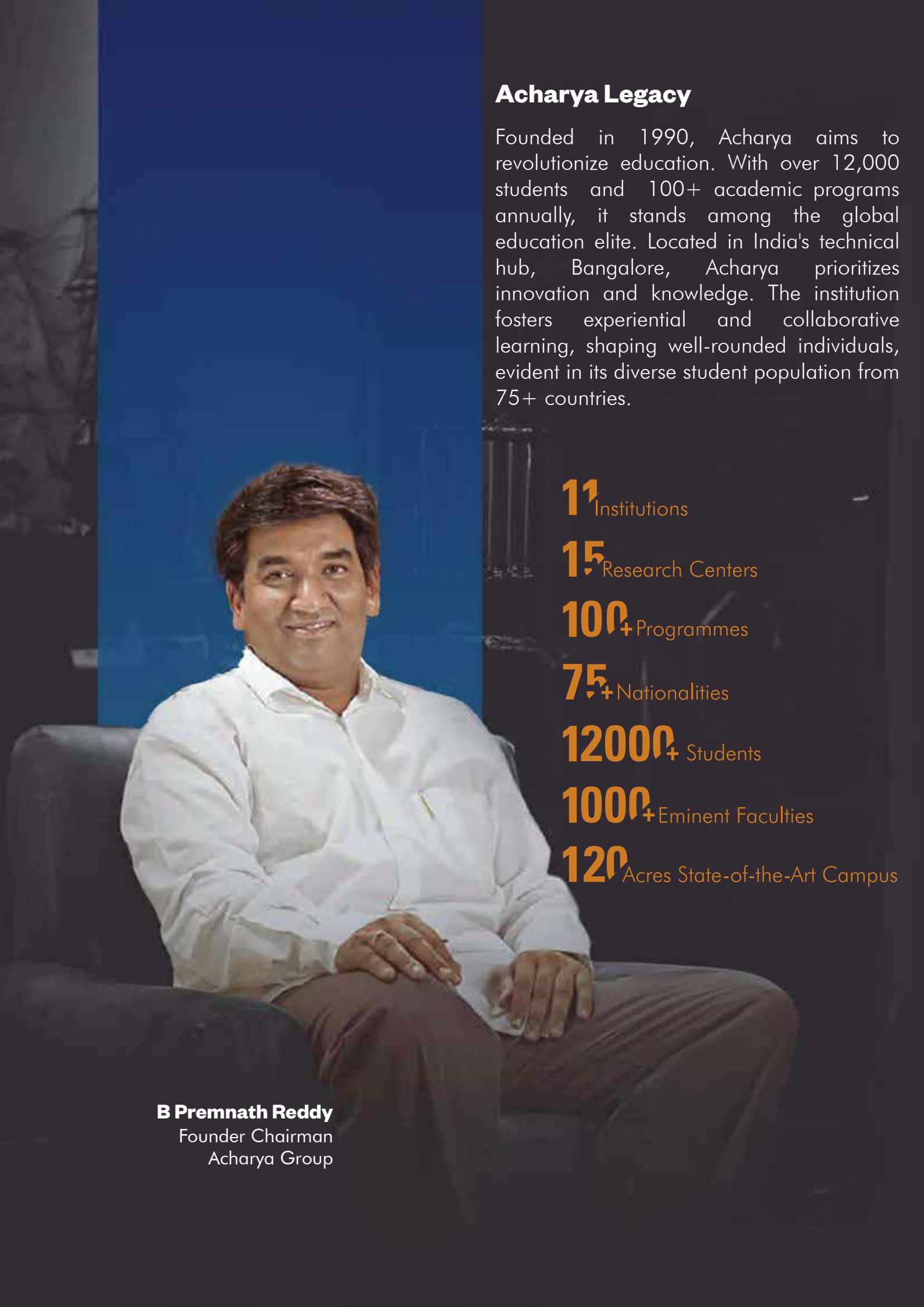
Semester 4

- Computational physics
- Continum Mechanics and special theory of relativity
- Material Science
- Condensed matter physics II
- Advanced Physics lab 3
- Advanced Physics lab 4
- Project Work



Acharya Legacy

Founded in 1990, Acharya aims to revolutionize education. With over 12,000 students and 100+ academic programs annually, it stands among the global education elite. Located in India's technical hub, Bangalore, Acharya prioritizes innovation and knowledge. The institution fosters experiential and collaborative learning, shaping well-rounded individuals, evident in its diverse student population from 75+ countries.



11 Institutions

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B Premnath Reddy
Founder Chairman
Acharya Group

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