ACHARYA INSTITUTE OF GRADUATE STUDIES

ACHARYA

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- Engage with renowned faculty and access LinkedIn extensive programs.
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M.SC CHEMISTRY

About

Chemistry is a natural science that focuses on the study of matter, what matter is composed of, and how different elements interact with each other. It also delves into the different changes matter undergoes. Chemistry is the answer to many problems around us. It plays a vital role in numerous fields: from the development of new medicines to finding solutions for immediate environmental concerns.

Career Scope

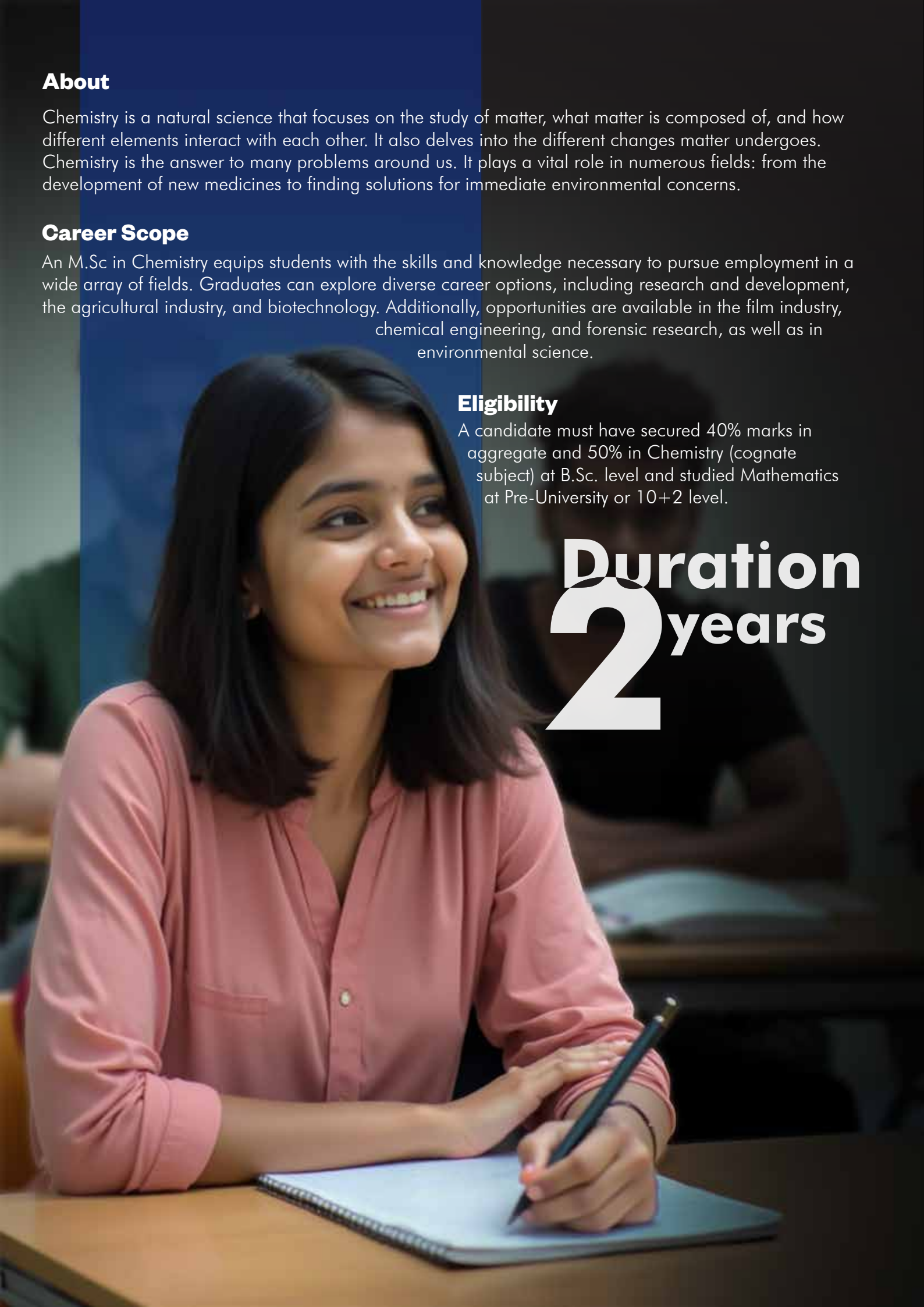
An M.Sc in Chemistry equips students with the skills and knowledge necessary to pursue employment in a wide array of fields. Graduates can explore diverse career options, including research and development, the agricultural industry, and biotechnology. Additionally, opportunities are available in the film industry, chemical engineering, and forensic research, as well as in environmental science.

Eligibility

A candidate must have secured 40% marks in aggregate and 50% in Chemistry (cognate subject) at B.Sc. level and studied Mathematics at Pre-University or 10+2 level.

Duration

2 years



COURSE CONTENT

Semester 1

- Inorganic chemistry-I
- Organic chemistry-I
- Physical Chemistry
- Analytical Chemistry
- Mathematics for Chemists
- Inorganic chemistry practicals-I
- Inorganic chemistry practicals-II
- Physical chemistry practicals-I
- Physical chemistry practicals-II

Semester 2

- Inorganic chemistry-II
- Organic chemistry-II
- Physical Chemistry
- Spectroscopy
- Photochemistry/Green Chemistry
- Inorganic chemistry practicals-III
- Inorganic chemistry practicals-IV
- Physical chemistry practicals-III
- Physical chemistry practicals-IV

Semester 3

- Organic Reaction Mechanisms
- Organic Synthesis
- Organic Spectroscopy
- Open Elective
- Organic chemistry practicals-I
- Organic chemistry practicals-II
- Organic chemistry practicals-III
- Organic chemistry practicals-IV

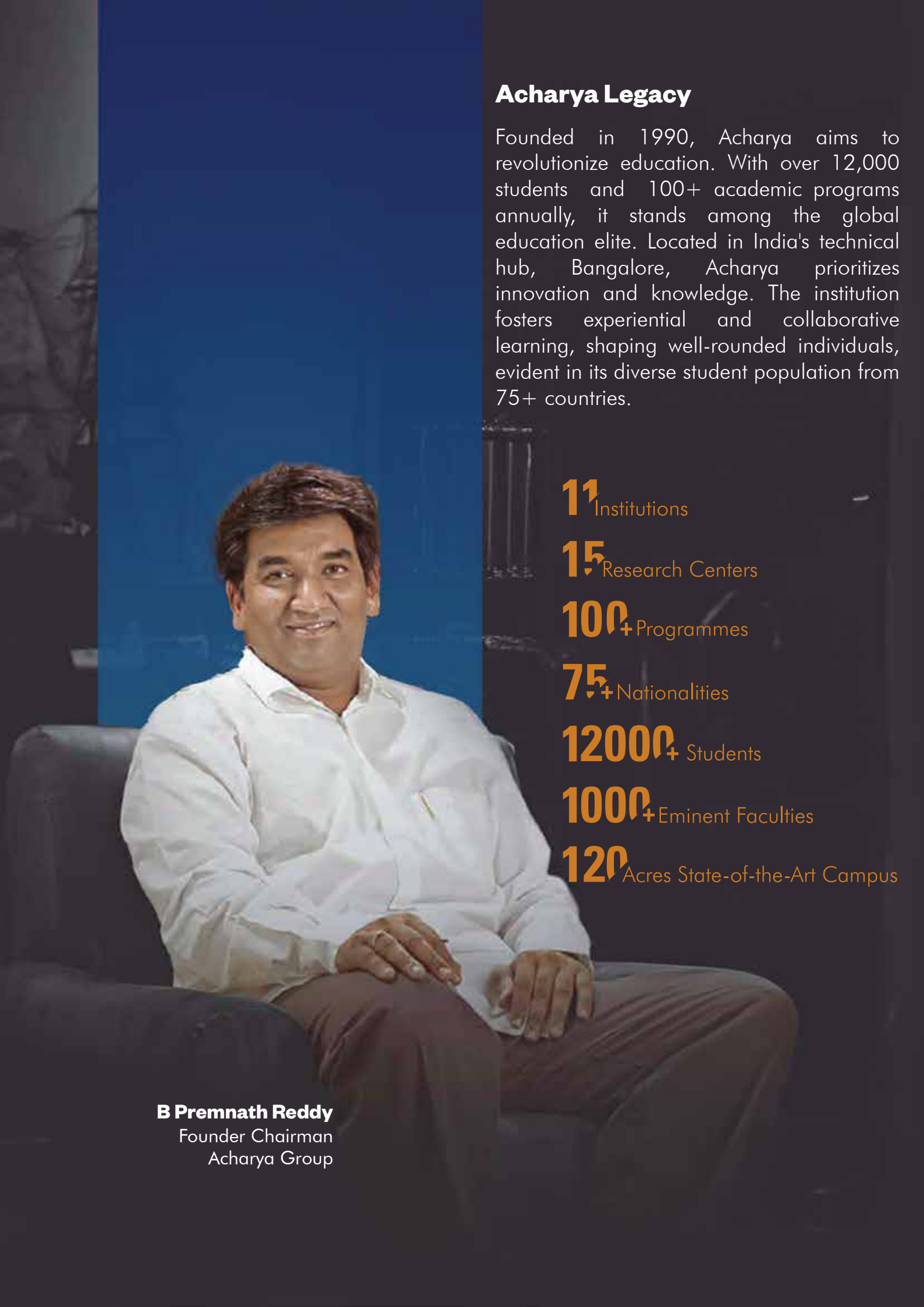
Semester 4

- Stereochemistry and retrosynthetic analysis
- Chemistry of Natural Products
- Industrial Organic Chemistry
- Medicinal Organic Chemistry
- Preparation of Industrial Importance
- Extraction and Separations
- Instrumental Methods and Quantitative Analysis
- Qualitative Analysis of binary mixtures



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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100+ Programmes

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B Premnath Reddy
Founder Chairman
Acharya Group

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