ACHARYA INSTITUTE OF TECHNOLOGY

Affiliated to VTU

NBA NAAC ACCREDITED

- Accredited, industry-aligned programs with expert faculty.
- Access to LinkedIn and high-performance laptops for seamless learning.
- In-demand certifications in EV, Cyber Security, and more for career advantage.
- Global exposure through partnerships and a diverse student body.
- Cutting-edge labs and a digital library for comprehensive resources.
- Collaborations with top corporations offering internships and projects.
- Vibrant clubs and activities focused on holistic development.
- Robust placement support with 550+ recruiting companies annually.

B.E COMPUTER SCIENCE & ENGINEERING

About

Computer Science Engineering involves the study of computer systems, algorithms, programming languages, software development, and the design and analysis of computer hardware. Our extensive course equips students with problem-solving skills, adaptability, and a mastery of coding, making them ready to play a crucial role in shaping today's technology-driven world. Additionally, our partnership with the EC Council enriches their understanding of cybersecurity challenges, providing an opportunity for certification by the company.

Career Scope

High Demand: Computer Science Engineering graduates are high in demand as the field is rapidly evolving. There's a wide range of lucrative career opportunities for them in the tech industry.

Versatile Jobs: Graduates have job opportunities in diverse fields, including finance, healthcare, entertainment, and more.

Global Opportunities: The skills gained from a Computer Science Engineering degree are in demand globally. Students can work for leading tech companies, startups, research institutions, or pursue entrepreneurship.

Eligibility

Pass in 10+2 / Higher Secondary (HS) / Pre University (PUC) / 'A' Level (with 12 years of schooling) or its equivalent with English as one of the languages. Shall have secured a minimum of 45% marks in aggregate in Physics, Mathematics and any one of the following:
Chemistry, Biology, Computer Science, Electronics. AIT admits students as per prevailing rules and regulations of VTU.
Candidate must have completed 17 years by June - for the year of admission.

Duration

4 years

COURSE CONTENT

Semester 1

- Mathematics - I for CSE Stream
- Applied Physics for CSE stream
- Principles of Programming Using C
- Engineering Science Course - I
- Emerging Technology Course - I
- Programming Languages Course - I
- Communicative English
- Professional Writing Skills in English
- Samskrutika Kannada / Balake Kannada
- Indian Constitution
- Innovation and Design Thinking
- Scientific Foundations of Health

Semester 2

- Mathematics-II forCSE Stream
- Applied Chemistry for CSE Stream
- Computer-Aided Engineering Drawing
- Engineering Science Course - II
- Programming Language Course - II
- Emerging Technology Course - II
- Professional Writing Skills in English
- Communicative English
- Indian Constitution
- Samskrutika Kannada / Balake Kannada
- Scientific Foundations of Health
- Innovation and Design Thinking

Semester 3

- Mathematics for Computer Science
- Digital Design & Computer Organization
- Operating Systems
- Data Structures and Applications
- Data Structures Lab
- ESC/ETC/PLC
  - Object Oriented Programming with Java
  - Object Oriented Programming with C++
- Social Connect and Responsibility
- Ability Enhancement Course/Skill Enhancement Course - III
  - Data analytics with Excel
  - R Programming
  - Project Management with Git
  - Data Visualization with Python
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga

Semester 4

- Analysis & Design of Algorithms
- Microcontrollers
- Database Management Systems
- Analysis & Design of Algorithms Lab
- ESC/ETC/PLC
  - Discrete Mathematical Structures
  - Graph Theory
  - Optimization Technique
  - Linear Algebra
- Ability Enhancement Course / Skill Enhancement Course- IV
  - Green IT and Sustainability
  - Capacity Planning for IT
  - UI/UX (Lab)
  - Technical writing using LATEX (Lab)
- Biology For Engineers
- Universal human values course
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga

Semester 5

Software Engineering & Project Management
- Computer Networks
- Theory of Computation
- Web Technology Lab
- Professional Elective Course
  - Computer Graphics
  - Unix System Programming
  - Artificial Intelligence
  - Distributed Systems
- Mini Project
- Research Methodology and IPR
- Environmental Studies
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga

Semester 6

- Cloud Computing (Open Stack /Google)
- Machine Learning
- Professional Elective Course
  - Blockchain Technology
  - Computer Vision
  - Compiler Design
  - Advanced Java
- Open Elective Course
  - Introduction to Data Structures
  - Fundamentals of Operating Systems
  - Mobile Application Development
  - Introduction to AI
- Project Phase I
- Machine Learning lab
- Ability Enhancement Course/Skill Development Course - V
  - Progressive App Development
  - Agile
  - Tosca – Automated Software Testing
  - Devops
- National Service Scheme (NSS)
- Physical Education (PE) (Sports and Athletics)
- Yoga

Semester 7

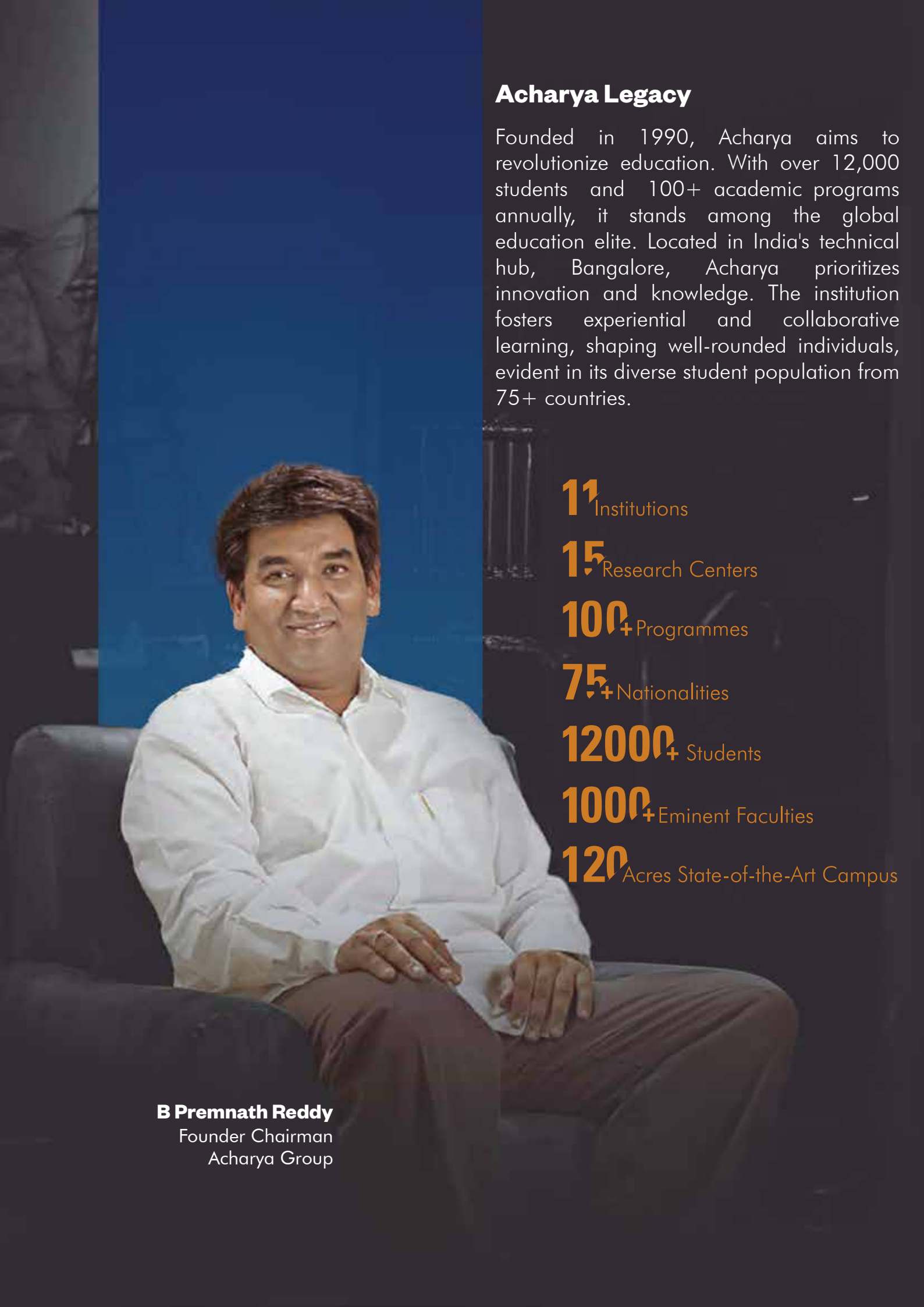
- Internet of Things
- Parallel Computing
- Cryptography & Network Security
- Professional Elective Course
- Deep Learning
- Natural Language Processing
- Enterprise Data Warehousing
- Big Data Analytics
- Open Elective Course
  - Introduction to DBMS
  - Introduction to Algorithms
  - Software Engineering
- Major Project Phase-II

Semester 8

Professional Elective (Online Courses) Only through NPTEL
- Open Elective (Online Courses) Only through NPTEL
- Internship (Industry/Research) (14 - 20 weeks)

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

15 Research Centers

100+ Programmes

75+ Nationalities

12000+ Students

1000+ Eminent Faculties

120 Acres State-of-the-Art Campus

B Premnath Reddy
Founder Chairman
Acharya Group

Acharya Offerings - click on each to know more... »

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PROGRAMS OFFERED

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