

BACHELOR OF SCIENCE  
COMPUTER SCIENCE

**B.Sc**

[svyasa.edu.in](http://svyasa.edu.in)



**S-VYASA**  
*Deemed-to-be University*  
SCHOOL of ADVANCED STUDIES

**NAAC**  
**GRADE A+**  
ACCREDITED UNIVERSITY

# MILESTONE JOURNEY



1975  
Establishment  
of S-VYASA



1985  
First Research  
publication in  
British Medical  
Journal



1988  
SIRO (Scientific &  
Industrial Research  
Organisation)  
Recognition



2011  
Center for  
Excellence by  
Ministry of  
AYUSH



2007 - 2012  
ICMR Research  
Center Approval  
For Advanced  
Research in Y & N



2002  
Deemed to be  
University Status by  
Ministry of  
Education, GOI



2013  
Listed in Category  
'A' by Ministry of  
Education, GOI



2014  
Awarded UGC  
12B Status for  
High Standards of  
Education & Research



2017  
A+ Grade - Cycle II,  
NAAC  
Accreditation



2023  
A+ Grade - Cycle III,  
NAAC  
Accreditation



2019  
Awarded KSURF  
4 Star Specialist  
University Status



2018  
Awarded Category-1  
University Status  
by UGC



2024  
Opened World Class  
(2nd Campus) at  
Global Tech Park

# | SHAPING FUTURE INNOVATORS



**PADMA SHRI**  
**Dr. H R Nagendra**  
President, S-VYASA

Welcome to S-VYASA Deemed-to-be University, School of Advanced Studies (SAS) – where future-ready data professionals are nurtured with purpose and precision.

Our B.Sc Computer Science (Data Science) programme is designed to equip students with a strong foundation in computer science while specializing in cutting-edge areas like Artificial Intelligence, Machine Learning, Big Data Analytics, and Statistical Modelling. The curriculum blends technical expertise with ethical grounding and holistic development rooted in yogic science.

At S-VYASA, we believe Data Science is more than crunching numbers—it's about extracting insights, driving intelligent decision-making, and creating positive societal impact. Our students become problem-solvers, innovators, and ethical leaders who can navigate the complex data-driven world with clarity and confidence.

Join us on a transformative journey where your analytical thinking is sharpened, your vision is expanded, and your future is shaped by excellence and integrity.

A VISIONARY LEADER, Dr. H R NAGENDRA PIONEERED THE INTERNATIONAL DAY OF YOGA AND BRIDGED THE **WORLDS OF SCIENCE AND HOLISTIC WELL-BEING.**

## ABOUT **S-VYASA**

A LEGACY FORGED AT NASA, **FLOURISHING AT S-VYASA**

S-VYASA stands on the visionary foundation of **Padma Shri Dr. H R Nagendra** – the 'Yoga Scientist.' From NASA's cutting-edge research to championing the International Day of Yoga, his journey shapes our distinctive approach to education.

S-VYASA Deemed-to-be University, School of Advanced Studies (SAS) is India's leading university, accredited with **NAAC A+** and approved by **AICTE**. At S-VYASA, students discover the transformative power of education through a variety of Programmes ranging from undergraduate to PhD, all within a supportive, creative, and professional environment. The university blends traditional approaches with modern advancements, preparing students for successful careers by teaching practical skills, fostering industry connections, and providing real-world experiences.



From **NASA** to **S-VYASA**



## PROGRAMME OVERVIEW

The Bachelor of Science (B.Sc) Programme, offered by the School of Advanced Studies, equips students for success in the ever-evolving IT industry. This three-year undergraduate degree goes beyond just teaching the basics of coding and computer applications. It provides a comprehensive foundation in computer science, with courses in programming languages, software development fundamentals, database management, networking, and web development. Whether building secure databases, designing user-friendly websites, or navigating complex networks, this Programme prepares graduates to excel in their IT careers.

## ADMISSION ELIGIBILITY

**Educational Qualification:** Completion of 10+2 or equivalent from a recognized board.

**Stream:** Students from all streams (Science, Commerce, Arts) are eligible.

**Minimum Pass Percentage:** A minimum aggregate percentage in the 12th standard (45%) is required.

# PROGRAMME HIGHLIGHTS



## SPECIALISATION CURRICULUM:

The Programme offers a well-rounded curriculum covering essential subjects such as programming fundamentals, data structures, algorithms, database management systems, computer networks, software engineering and web development. Within the B.Sc Programme students can choose from six specializations.



## INNOVATIVE PEDAGOGICAL PRACTICES:

The university emphasizes innovative learning by integrating technology, management, and wellness Programmes such as yoga. Modern teaching methods, experiential learning, and practical experience ensure a comprehensive educational journey, empowering students to lead their education.



## INDUSTRY-RELEVANT SKILLS

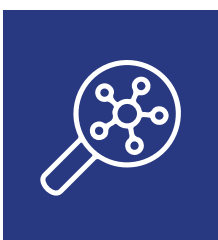
### THROUGH INDUSTRY CERTIFICATIONS:

The Programme provides you with the latest tools and methodologies used by IT professionals today, ensuring you are graduate-ready to thrive in the fast-paced tech industry.



## INDUSTRY AND ACADEMIA COLLABORATION:

The B.Sc programme benefits from strong collaborations between industry and academia, offering students valuable perspectives from leading institutions like IITs and international universities. Experienced professionals from our industry partners, such as LTI Mindtree, TCS, HP, Intel, and IBM, are closely involved in shaping the curriculum and delivery of the programme. They bring real-world knowledge and expertise directly into the classroom, ensuring that graduates are well-equipped with skills that align with current industry needs.



## HOLISTIC DEVELOPMENT:

The B.Sc programme places a strong emphasis on essential soft skills - from effective communication and interpersonal skills to professional grooming and powerful body language. At the core of S-VYASA's approach is the integration of yoga and wellness practices, which foster physical health, mental clarity, and stress resilience. This unique blend prepares you to handle workplace pressures gracefully, communicate with confidence, and grow into a holistic professional, ready to excel in both your career and personal life.

# PROGRAMME OUTCOMES

The Bachelor of Science (B.Sc) Programme focuses on Knowledge, Skills and Abilities that students are expected to attain by the time they complete the Programme. The Programme Outcomes are designed to reflect the Programme's goals and ensure that learners are well-prepared for the demands of the industry. Students can expect to gain the following relevant skills.

## Technical Proficiency

Demonstrate understanding of fundamental computer science and information technology concepts, including programming languages, database management, data structures, algorithms, networking, and software engineering principles.

## Problem Solving Skills

Analyze complex problems, identify requirements, and develop effective solutions using appropriate computational techniques and tools.

## Software Development

Demonstrate adequate skill in designing, developing, and testing software applications, including web-based, desktop, and mobile applications, adhering to industry best practices and standards.

## Database Management

Proficient in designing, implementing, and managing databases, including data modeling, querying, and administration tasks.

## Information Security

Use the principles of information security and be able to implement security measures to protect data and systems from unauthorized access, attacks, and breaches.

## Communication Skills

Communicate effectively, both verbally and in writing, with technical and non-technical stakeholders, including the ability to document and present technical information clearly and concisely.

## Teamwork and Collaboration

Work effectively as part of a team, including the ability to collaborate with colleagues from diverse backgrounds to achieve common goals.

## Continuous Learning

Demonstrate a commitment to lifelong learning and professional development, staying abreast of emerging technologies and industry trends to adapt to evolving job requirements.

## Ethical and Professional Conduct

Adhere to ethical standards and professional codes of conduct, demonstrating integrity, honesty, and responsibility in their work.

## Entrepreneurial and Innovation Skills

Develop the mindset and skills necessary to identify opportunities, innovate, and contribute to the development of new technologies and solutions as and when the need arises.

# PROGRAMME SPECIALISATIONS

The B.Sc Computer Science programme at S-VYASA School of Advanced Studies offers a focused specialization in Data Science. This specialisation equips students with the skills and knowledge required to excel in the fast-growing field of data-driven technology and intelligent systems.



B.Sc Computer Science (Data Science)

# CAREER OPPORTUNITIES AND PLACEMENTS

Students graduating with a B.Sc Computer Science (Data Science) programme have a wide range of career opportunities in both the public and private sectors. Some of the roles span across Data Science, Artificial Intelligence, Cloud Computing, Cybersecurity, and DevOps and also include:

Junior Software Developer	Web Developer (Junior)	Database Administrator (Junior)	System Administrator (Junior)
Mobile App Developer (Junior)	Data Analyst (Junior)	Technical Support Engineer / IT Support Executive	Quality Assurance Tester
Junior Cloud Engineer	Business Analyst (Junior)	Digital Marketing Executive	Junior Cybersecurity Specialist Analyst

# INTEGRATED INDUSTRY AND SKILL CERTIFICATIONS

B.Sc Programme from S-VYASA Deemed-to-be University, School of Advanced Studies is integrated, and the curriculum also consists of certifications in industry-leading skill courses, which can significantly enhance their educational and professional development.



Our programme integrates globally recognized certifications to equip students with specialized, in-demand skills, enhancing employability and global career potential.

## KEY BENEFITS:

### CAREER EDGE

Validates technical skills, boosting job prospects and advancement.

### SPECIALIZED SKILLS

Focused training in industry-relevant tools and technologies.

### CREDIBILITY

Recognized certifications signal job readiness and professional credibility.

### PROOF OF PROFICIENCY

Formal validation of skills builds confidence and competency.

### INDUSTRY RELEVANCE

Ensures students graduate with current, job-ready knowledge.

### GLOBAL REACH

Credentials recognized by top employers worldwide and MNCs.

## FACULTY PROFILE

Our faculty, led by **Dr. Sachin Sharma**, Dean-CSA, champions technological innovation and digital transformation. The team of industry experts and academicians excels in integrating advanced technologies into teaching, research, and industry collaboration. Committed to hands-on learning, they prepare future-ready professionals with strong ethics and sustainability focus for the evolving tech landscape.

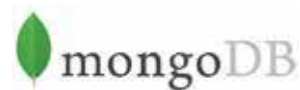
# INDUSTRY-READY B.SC PROGRAMMES

## INTEGRATED PROGRAMME ADVANTAGES

- 80% Hands-on Learning
- 300+ Global Hiring Partners
- Paid Internships
- Global Certifications
- 100% Placement Assistance

## INDUSTRY CERTIFICATIONS

Students earn **globally recognized credentials** from:



These validate their technical skills and enhance their job readiness across industries.

## REAL-WORLD LEARNING

- Daily practical sessions
- Hackathons, case studies, mini & capstone projects
- Tools: Git, Salesforce, MongoDB, Zoho, Azure
- Internship-based projects with deliverables

## CAREER PREPARATION & SUPPORT

- Structured mentorship
- Resume and portfolio building
- Company-specific training
- Mock interviews and DevOps-based deployment training

## Objective

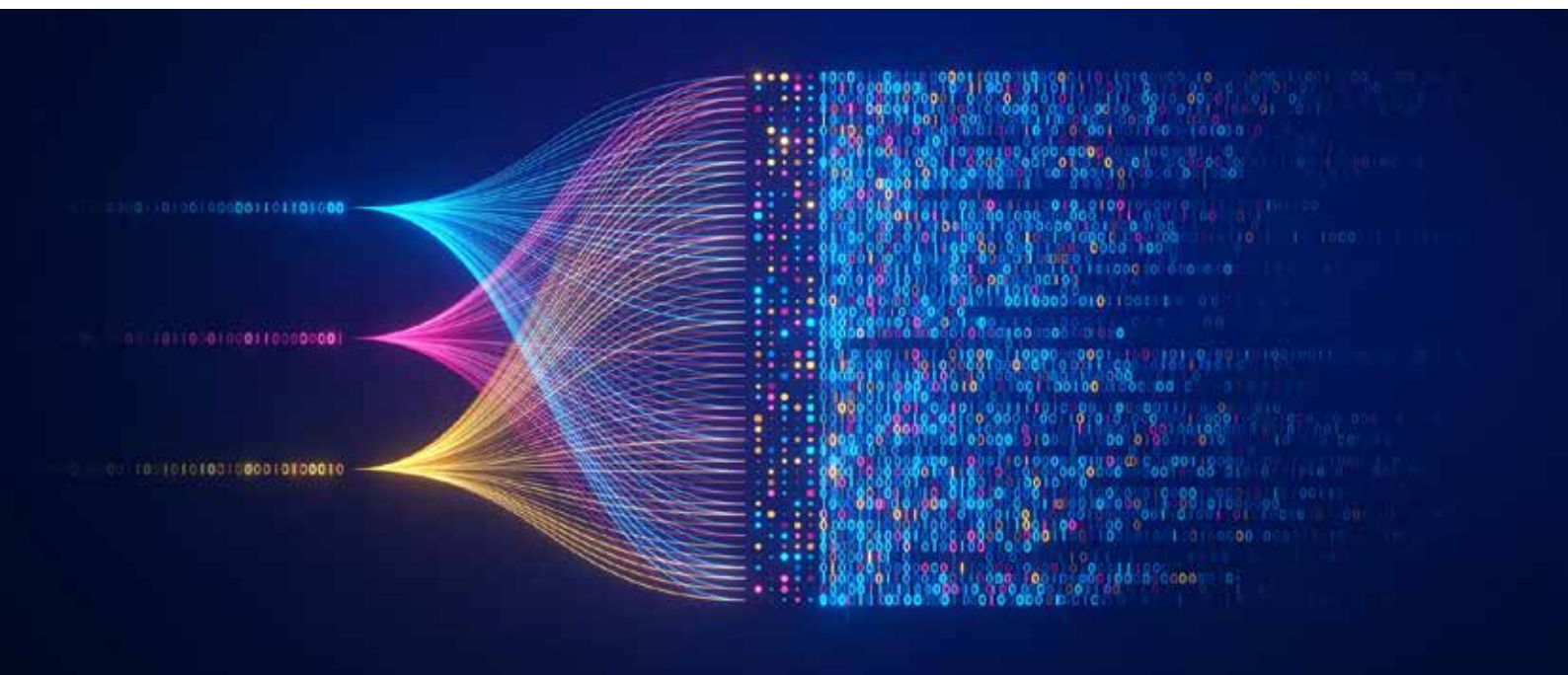
Train students to build intelligent, scalable, cloud-native applications using AI, full-stack, and DevOps technologies.

### KEY SKILLS

- Programming: Python, R, SQL, Data Structures & Algorithms
- Data Science & ML: Supervised/Unsupervised Learning, Data Wrangling, Predictive Modeling
- Front-End (for data visualization): HTML, CSS, JavaScript, Dash, Plotly
- Cloud Platforms: AWS, Azure, Google Cloud (GCP)
- DevOps & Deployment: Git, CI/CD, Docker, Kubernetes

### HIGHLIGHTS

- 1700+ hours of hands-on coding and data analysis
- 300+ real-world problems solved using statistical & ML approaches
- Capstone projects, industry case studies & data hackathons
- Certifications: Microsoft Data Science, Google Cloud Data Engineer, IBM AI & Data Science, MongoDB
- Resume-building, mock interviews, and data product deployment training





## WHY CHOOSE S-VYASA FOR B.SC?

Holistic integration of business and spiritual knowledge (unique USP).

International certifications and global exposure.

Industry-aligned curriculum with career-focused specializations.

Industry-ready graduates with employability skills.

Strong placement record with top recruiters.

## ELEVATE YOUR CAREER TODAY

READY TO TAKE THE NEXT STEP IN YOUR PROFESSIONAL JOURNEY?

APPLY NOW TO THE

## S-VYASA PROGRAMME

- 1 Visit Our Website:**  
<https://svyasa.edu.in/>
- 2 Submit Your Application:**  
*Complete the online application form.*
- 3 Prepare Your Documents:**  
*Gather required documents.*
- 4 Attend an Information Session:**  
*Learn more about our Programmes and meet our faculty.*



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**NAAC**  
**GRADE A+**  
ACCREDITED UNIVERSITY

# EDUCATION meets INDUSTRY

## OUR CENTRES OF EXCELLENCE



The Programme, co-developed with IBM's ICE, offers a curriculum aligned with industry standards. Students gain practical experience through projects, case studies, and mentorship from IBM professionals. With their degree, they earn industry-recognised certifications in AI, Data Science, Cloud Computing, and more.



- Courses delivered by IBM Subject Matter Experts.
- Project and internship-based learning with IBM mentorship.
- IBM ICE merchandise and learning kits for students.
- Globally recognised IBM Digital Badges.
- Internship and placement opportunities facilitated by IBM

The Programme, enhanced by TCS iON, integrates a phygital learning model that combines classroom instruction with digital tools. Through Industry Honour Courses and the Placement Success Programme, students acquire essential skills in coding, analytics, and soft skills, aligning with current industry demands.



- Courses delivered by TCS Subject Matter Experts in the classroom.
- Project and internship-based learning, with placement opportunities from TCS partners.
- Participation in national and global hackathons.
- Recognition of Industry Honour Courses through digital credentials.
- Employability skill certifications, including NQT and job readiness training through PSP

Students receive comprehensive support to pursue international education through our collaboration with Santamonica Study Abroad Pvt. Ltd.. With over 20 years of experience and partnerships with 800+ institutions across 30+ countries, Santamonica offers:



- Guidance on university/college and course selection
- Assistance with applications, admissions, scholarships, and funding
- Visa processing and interview preparation
- Pre-departure and post-arrival support
- Opportunities for dual degrees, internships abroad, summer schools, student exchange and credit transfers

As a Cambridge Learning Partner, we offer an internationally recognised CEFR-aligned English language learning Programme. This Programme enhances students' language proficiency, providing them with a competitive edge in academic and professional settings.



- Structured learning and testing through CEFR-based assessments
- Improved academic and career outcomes
- Enhanced global mobility and employability
- Recognition by universities and employers worldwide

Our industry and edtech partners actively train and mentor students, equipping them with the skills needed for successful placements.

\*T&C applied

## INTERNATIONAL AFFILIATIONS & MoUs



and more than **30+ International Institutions**

## NATIONAL AFFILIATIONS & MoUs



and more than **70+ National Institutions**

## EDTECH PARTNERSHIPS



## OUR ASSOCIATES



ARE YOU READY TO BUILD THE FUTURE WITH US?

YOUR JOURNEY STARTS HERE

**LET'S MEET !**



SCAN TO CONNECT



**S-VYASA**  
*Deemed-to-be University*  
SCHOOL of ADVANCED STUDIES

S-VYASA Deemed-to-be University is a hub for pioneering computer education — where technical mastery meets real-world application. Our B.Sc program, driven by strong industry collaborations and a future-focused curriculum, empowers you to lead in digital innovation and engineer tomorrow's tech solutions.



LOCATION

**S-VYASA SCHOOL OF ADVANCED STUDIES**

Sattva Global City, Mysore Rd, Remco Housing Society, Rajarajeshwari Nagar, Bengaluru-560059  
+91-9070907066 | +91-9070907099 | info@svyasa.edu.in | www.svyasa.edu.in