



ALVA'S COLLEGE (AUTONOMOUS)



DEPARTMENT OF COMPUTER SCIENCE (BCA)

“EXTENDED OPPORTUNITIES WITH EMERGING TECHNOLOGY ”

PROGRAMS WE OFFER:

BCA (AI AND ML)

BCA (Data Analytics)

BCA (Regular)



About Alva's BCA



CHAIRMAN AND HIS VISION



DR. M. MOHAN ALVA
CHAIRMAN,
ALVA'S EDUCATION FOUNDATION

Alva's Education Foundation (R) was conceived and founded by a visionary leader Dr. M. Mohan Alva, an Ayurveda Physician by profession and a Philanthropist by heart. The foundation is a living dream of Dr. Alva to impact quality education.

Dr. Alva's dynamism, foresight, simplicity, goodwill, righteousness, and conviction that education is at the root of all social progress are guiding forces behind the establishment of the foundation in 1995, beginning with a few institutions affiliated to Rajiv Gandhi Health University, Bangalore.

Today, it has a vast array of institutions across various disciplines. The foundation's name is synonymous with discipline, punctuality, humility and fulfillment.

ABOUT ALVA'S COLLEGE

Alva's college is the crown of all the institutes under the umbrella of AEF. The college was established in the year 1998 with two courses. At present, it offers a wide range of graduate and post graduate programs. It is affiliated to the Mangalore University. The diverse academic disciplines integrated with the cultural and sport activities is the driving force to make our youth competent enough to face any challenges of the global community.

The college ranks first in academic results and student strength in Mangalore University. In addition to this, our students excelled in sports, athletic, cultural activities and winning the championships in Mangalore University and Inter University. We ensure safe and formative involvement for all the students to create themselves as the assets of the family and our great nation.



VISION

"Render knowledge and enhance conceptual and application skills of the students in the area of Information Technology."

MISSION

"To include professional values, ethics and social responsibility in students."

BCA AT ALVA'S

The BCA program was introduced in the year 2001. The duration of the program is 3 years (six semesters) fulltime. BCA is a highly sought-after degree program under Mangalore University. BCA provides the quickest entry into the IT industry for aspiring students. It also caters to the needs of IT-enabled services, banks, BPOs, KPOs and the various requirements of both the public and private sectors.

A student enrolled in the BCA program receives substantial training in the fundamentals of Information Technology, Microprocessors, Algorithms, Database Management Systems, Operating Systems, and a variety of programming languages such as C, C++, .NET, Java, Python, DBMS. In addition, the program now includes comprehensive modules on Data Analytics(DA), Artificial Intelligence (AI), Machine Learning (ML). Thus equipping students with modern technological skills required in today's data-driven and intelligent systems landscape.

CURRICULUM OUTCOMES

6 Semester course

Credits-based semester system

Industry-standard subject

24 Certificate courses

18 Forums

Internship compulsory for every semester

Continuous evaluation system

ADOPTION SCHEME

Types of adoption schemes

- **ACADEMIC-Merit:** Above 95% in II PUC or equivalent
- **SPORTS:** Good sports personnel in PUC level including athletics and games
- **CULTURAL:** Good performer (classical/folk singer or dancer, instrumental)

WHY BCA?

- ✔ Experiential Learning through Practical, Mini Projects and Industry Exposure
- ✔ Future-Ready Syllabus Delivered by Experienced Professionals
- ✔ Comprehensive Computing Environment with Cutting-Edge Resources
- ✔ Dedicated Placement Cell Offering Training and Recruitment from Top-Tier Companies



CAREER OPPORTUNITY FOR BCA GRADUATES

The software industry is in continuous search of technically strong students. The industry offers varied and promising career options for BCA graduates. With a strong foundation in programming, systems, and technology, BCA graduates can pursue roles across multiple domains in the IT and digital space. These include:


System Programmer	Software Analyst	3D Animation / Graphic Designer
Database Expert (DBA)	Hardware Expert	Programmer / Software Developer
Quality Assurance	System Analyst	Software Tester
Technical Writer	Security Expert	Network Analyst
Software Engineer	Data Analyst	Web Master / Web Designer
AI & ML Specialist (Artificial Intelligence & Machine Learning)		

ENRICHING EXPERIENCES AT AEF

 Research Collaborations

 Sports Culture for Peace

 Rural Immersion Program

 Life @ AEF – Beyond Classroom


 Fostering Entrepreneurship, Incubation Centre

 Industrial Collaboration for Internships

 Placements

 Alumni Involvement

 Peace for Holistic Development

 Digital Learning Technology

OUR PLACEMENT PARTNERS



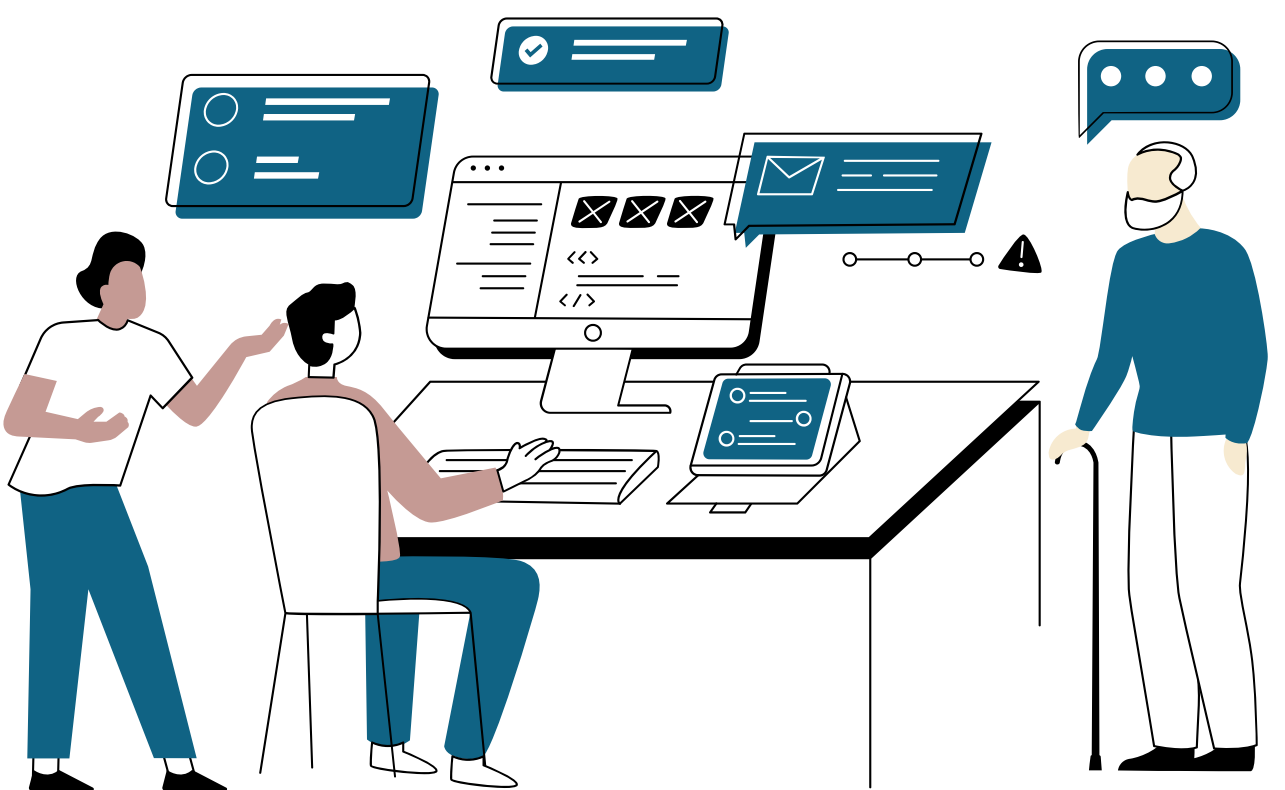
“My time at Alva's College was truly enriching. The dedicated support, comprehensive training, and valuable exposure I received through BCA course played a pivotal role in shaping my career. I am immensely grateful for the strong foundation the college has provided me to begin this exciting journey.”

HARSHA BABU K N (BATCH-2022)
Systems Engineer at CGI Inc.

“With BCA program at Alva's college, I had comprehensive training in tech skills along with holistic personal growth with a strong emphasis on practical skills and industry exposure. The faculty is supportive, and the campus provides a great environment for academic and personal growth. Good placement assistance and co-curricular activities enhance the overall learning experience.”



SINCHANA V (BATCH-2024)
Product Support Engineer at SAP Labs India



CURRICULUM STRUCTURE

STATE EDUCATION POLICY CURRICULUM STRUCTURE FOR REGULAR BCA

I Semester	II Semester	III Semester
<ul style="list-style-type: none"> Fundamentals of Computers Programming in C Discrete Mathematics for Computer Applications Lab: Information Technology Lab Lab: C Programming Lab Constitution Values 	<ul style="list-style-type: none"> Data Structures Object Oriented Programming Using JAVA Computational Mathematics Lab: Data Structures Lab Lab: Object Oriented Programming Lab Constitution Values 	<ul style="list-style-type: none"> Database Management System C# and Dot net Framework Computer Networks Lab: Database Management System Lab Lab: C# and Dot net Framework Lab <p>Elective:</p> <ul style="list-style-type: none"> a) Open Source Tools b) Web Content Management System c) DEVOPS

IV Semester	V Semester	VI Semester
<ul style="list-style-type: none"> Python Programming Advanced JAVA and J2EE Operating System Concepts Lab: Python Programming Lab Lab: Advanced JAVA and J2EE Lab 	<ul style="list-style-type: none"> Software Engineering Web Development Design Analysis and Algorithm Statistical Computing and R Programming Cloud Computing Cryptography and Network Security Lab: Design Analysis and Algorithm Lab Lab: R Programming Lab Lab: Web Development Lab Data Analytics using Excel 	<ul style="list-style-type: none"> Artificial Intelligence and Applications Principles Cyber Security Fundamentals of Data Science Digital Marketing
<p>Elective:</p> <ul style="list-style-type: none"> a) Distributed Computing b) Object Oriented Analysis & Design c) Research Methodology 		<ul style="list-style-type: none"> Project Work
<ul style="list-style-type: none"> Internet Basics 		

STATE EDUCATION POLICY CURRICULUM STRUCTURE FOR BCA (DATA ANALYTICS)

I Semester	II Semester	III Semester
<ul style="list-style-type: none"> Fundamentals of Information Technology Programming in C Computational Mathematics Lab: Office Automation Lab Lab: C Programming Lab Constitution Values 	<ul style="list-style-type: none"> Data Structures Using C Database Management System Computer Organization and Architecture Lab: Data Structures Lab Lab: Database Management System Lab Constitution Values 	<ul style="list-style-type: none"> Operating Systems Object Oriented Programming using Java Computer Networks Lab: Operating Systems Lab Lab: Object Oriented Programming Lab
		<p>Elective:</p> <ul style="list-style-type: none"> a) Digital Marketing b) Web Content Management System c) DEVOPS

IV Semester	V Semester	VI Semester
<ul style="list-style-type: none"> • Python Programming • Statistical Computing using R • Data Warehousing and Data Mining • Lab: Python Programming Lab • Lab: Data Analytics Lab 	<ul style="list-style-type: none"> • Software Engineering • Artificial Intelligence • Business Intelligence and Analytics • Web Development • Machine Learning • Design Analysis and Algorithm • Lab: Artificial Intelligence and Machine Learning Lab • Lab: Web Development Lab • Lab: Algorithms Lab • Data Visualization with Power BI and Tableau 	<ul style="list-style-type: none"> • Natural Language Processing • Big Data Analytics • Multivariate Data Analysis • Principles of Cyber Security
<p>Elective:</p> <ul style="list-style-type: none"> a) Optimization Techniques for Analytics b) Research Methodology c) Object Oriented Analysis & Design 		<ul style="list-style-type: none"> • Project Work
<ul style="list-style-type: none"> • Data Analytics using Excel 		

STATE EDUCATION POLICY CURRICULUM STRUCTURE FOR BCA (AI AND ML)

I Semester	II Semester	III Semester
<ul style="list-style-type: none"> • Fundamentals of Information Technology • Problem Solving Using C • Computational Mathematics • Lab: Fundamentals of Information Technology Lab • Lab: C Programming Lab • Constitution Values 	<ul style="list-style-type: none"> • Data Structures Using C • Database Management System • Computer Architecture • Lab: Data Structures Lab • Lab: Database Management System Lab • Constitution Values 	<ul style="list-style-type: none"> • Object Oriented Programming using Java • Operating Systems • Computer Networks • Lab: Object Oriented Programming Lab • Lab: Operating Systems Lab
		<p>Elective:</p> <ul style="list-style-type: none"> a) Digital Marketing b) Web Content Management System c) DEVOPS

IV Semester	V Semester	VI Semester
<ul style="list-style-type: none"> • Artificial Intelligence-I • Python Programming • Software Engineering • Operating System Concepts • Lab: Artificial Intelligence-I Lab • Lab: Python Programming Lab • Lab: Advanced JAVA and J2EE Lab 	<ul style="list-style-type: none"> • Machine Learning Techniques • Web Development • Data Analytics Using R • Internet Of Things • Artificial Intelligence-II • Natural Language Processing • Lab: Web Development Lab • Lab: Data Analytics Lab • Lab: Machine Learning and IOT Lab • AI Tools and Techniques 	<ul style="list-style-type: none"> • Artificial Neural Network • Deep Learning • Principles of Cyber Security • Computer Vision
<p>Elective:</p> <ul style="list-style-type: none"> a) Cloud Computing b) Object Oriented Analysis & Design c) Research Methodology 		<ul style="list-style-type: none"> • Project Work
<ul style="list-style-type: none"> • Internet Basics 		



STUDENTS TESTIMONIALS

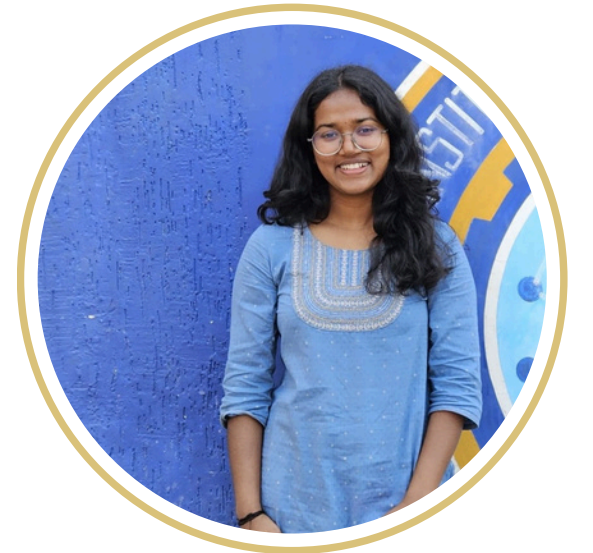


SAMSON MATTHEW (BATCH-2022)

Associate Software Engineer
at Allegion India Pvt Ltd

"I am deeply appreciative of Alva's Education Institution for equipping me with essential skills and preparing me for my future pursuits. The institution's professional and high-quality lecturers have been instrumental in guiding us toward achieving our objectives. I extend my sincere gratitude to the Computer Science department for their enthusiasm in nurturing with competencies aligned with contemporary industry paradigms through the organization of various events and sessions."

I am truly grateful to Alva's for arranging aptitude sessions that greatly enhanced our skills. These sessions played a key role in boosting our confidence and preparation. I appreciate the opportunity given to us to participate in the campus placement drive. I feel proud and thankful to have been selected by SAP through this opportunity.



SWETHA S SANKAR(BATCH-2023)

Technical Support Engineer
at SAP Labs



VARUN KUMAR (BATCH-2024)

Process Executive
at Cognizant Technology Solutions

"I had a great journey of 3 years in this prestigious Alva's Institution. BCA at Alvas College laid a solid foundation in both technical skills and personal growth. The faculty's support and real-world exposure prepared me for industry challenges with confidence. Alvas truly shaped me into a disciplined, career-ready professional."

Instagram



Admission Enquiry



SINCHANA V (BATCH-2024)

Product Support Engineer at SAP Labs India

CONTACT US

Admission Officer

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