



DAV COLLEGE

Affiliated to TU

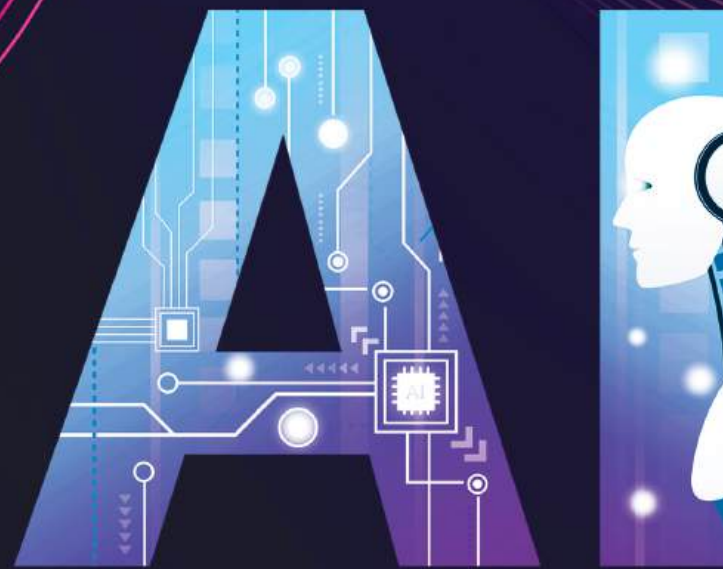


"Creating
Global Tech
Leaders"

Tableau
Python
Robotics
Power BI
DevOps

BCA

Bachelor in Computer Application



Today, we're watching the gradual evolution from the Knowledge Economy to the Age of Artificial Intelligence and Virtuality. With it comes a fundamental shift in what it means to be a leader in this rapidly changing market place. With DAV you will find a path that leads to your ultimate success.

About Tribhuvan University (TU)

Tribhuvan University, established in 1959, is Nepal's oldest, largest and most prestigious university, recognized for its excellence in higher education and research. With a vast network of campuses and affiliated colleges, TU offers diverse programs in Medicine, Engineering, Science and Technology, Management, Humanities, Law and Education. The university is known for its experienced faculty, research-driven learning and strong academic standards.



Through innovation, practical education and leadership development, TU has produced generations of skilled professionals and national leaders. Its long standing legacy and nationwide recognition make it one of Nepal's most trusted educational institutions.



About DAV College

DAV College, affiliated with Tribhuvan University, is a leading institution focused on innovation, technology and career-oriented education. The college provides modern classrooms, advanced computer labs and practical learning opportunities to help students excel in the IT field. The BCA program emphasizes programming, web and app development, AI and ML, cybersecurity, and emerging technologies through project-based learning and industry exposure. Along with technical skills, DAV nurtures leadership, creativity, communication and teamwork. With its student-centered approach and commitment to excellence, DAV College prepares industry-fit and globally competitive IT professionals.





Message from Chairman

"We cannot always build the future for our youth, but we can build our youth for the future."

- Franklin D. Roosevelt

These words by Franklin D. Roosevelt perfectly describe our aim at DAV College. Beyond providing a sound education, we wish to provide our students a holistic learning experience for life. Our aim is to teach students to LEARN not just STUDY. Hence, we strive to travel beyond the boundaries of mere books. We have realized that the future is abstract and unknown but the youth in our hands are real and can be molded.

Dear students, "You are the nation-builders, you are the movers of technology and the agents of change." The knowledge that you will gain, the fine qualities that you will imbibe and the technical skills that you will learn to apply will be your major contribution to your family to society and to the nation. In today's world of ML, AI, AR & VR your inquisitiveness and agility will shape your future.

We invest our trust in you. You are our safe source and we bank all our efforts on you. We create not the future instead we craft you for the future.

"You don't have to be great to start, but you have to start to be great."

All best wishes for your future endeavor.

Anil Kedia
Chairman

Research Cell

You'll study in an academic environment that helps brilliant thinkers turn inspiration into reality.



Mr. Anil Kedia
Chairman



Mr. Suman Basnet
Member



Dr. Rameshor Subedi (Ph.D.)
Member



Mr. Shashi Bhushan Chaturwedi
Member



Mr. Sudip Adhikari
Member

Message from Program Executives



Information Technology is the science that practices information processing and the engineering of systems. Information essentially shapes an organization, the student learns the effects of managing technology, both theoretically and practically. The teaching-learning approach coupled with practical experience gained during Industrial Training in reputed organizations, equips our students to handle the challenges posed by the software industry.

DAV College is a center of excellence for quality education in Information Technology with special focus on emerging trends. We provide Global certifications in ICT (Big Data Hadoop, AWS Cloud, Microsoft Azure, Cybersecurity, Cisco certifications, Data Science with Prompt engineering, DevOps) and different programming languages.

Mr. Shashi Bhushan Chaturvedi
Academic Head

BCA Course equips students with strong foundation in computer science & applications. The curriculum covers core topics such as programming, database management, web development, software engineering and elective courses preparing students for diverse careers in IT industry. With a focus on practical's, hands-on learning, the program also includes industry internships and project-based assignments to enhance student's real-world skills and employability. At DAV College, the BCA program is further strengthened by advanced lab facilities including GPU-based computing and regular workshops aligned with current industry trends. Expert faculty mentorship and a career-focused learning environment ensure students gain both technical excellence and professional confidence. Graduates benefit from strong academic support and industry exposure, making them highly competitive in the evolving IT landscape.

Mr. Sudip Adhikari
Program Head

About BCA

Today, Technology and Digital World Economy is of Multi trillion dollars, where AI, VR, AR & ML is playing prominent role. Every moment in the daily life of individual is governed by the technology. The ICT has become an indispensable part of every industry. The robotics, Machine learning, AI, NLP, VR & AR has become core of every industry in the world. In today's competitive market, companies such as Microsoft, Apple, NVIDIA, Google, Amazon, and Meta Platforms are among the world's top 10 global IT companies.

We cannot imagine any future job without computer and ICT application. All corporate house and big corporations communicate through computer applications and therefore, every human work will be done by the Machine (AI), without IT we cannot imagine any daily work performed.

More than 60% of all future jobs has direct or indirect connections with computers and its application. Future job will require skills of ICT. To address the market demand, Tribhuvan University has designed this BCA course as per the need to the future. Hence, the application of computer and ICT in medical, Engineering, Electronics, Technology, Automobile, Space, Transportation, Biotechnology, Genetics, Microbiology and others has opened the door to explore beyond the boundaries and add value to the life. Hence, course like BCA is very important for future job market. The DAV BCA produces the industry-fit candidates in every year.



Vision

- ▶ To be center of excellence that inspires to be a global citizen while nurturing the Human Values.

Mission

- ▶ To inspire, innovate and develop through Hi-tech life skills.
- ▶ To spearhead entrepreneurship for sustainability with AI, ML and ICT.
- ▶ To inculcate values that foster Humanity.
- ▶ To ingrain the abilities and skills to survive, adapt, improvise and excel in the Global world of Science & Technology.

Industry Labs

DAV offers a dynamic platform where students transform theoretical knowledge into real-world IT solutions through hands-on projects and teamwork. It simulates a professional environment using modern tools and technologies, preparing students for industry challenges. With a focus on innovation, collaboration and practical skills, the lab enhances job readiness and confidence. It acts as a bridge between classroom learning and the evolving demands of the IT industry.





Personality Enhancement Program

DAV empowers students to develop confidence, communication and leadership skills essential for success in today's competitive world. Through interactive sessions, workshops and real-life simulations, students refine their public speaking, teamwork and professional etiquette. The program nurtures a positive mindset and strong personal presence, helping individuals stand out academically and professionally. It shapes students into confident, capable and career-ready personalities.



Experienced & Expert Trainers at DAV

DAV ensures impactful learning through highly experienced and expert trainers who bring realworld insights, practical expertise and personalized guidance to every session.



Cognito DAV IT Club

IT Club is the driving force behind innovation and tech culture at DAV, organizing dynamic IT events, hands-on workshops, exciting hackathons and career-focused job fairs. It empowers students to explore emerging technologies, collaborate on real-world ideas and connect with industry opportunities, making it the heartbeat of the college's IT ecosystem.

WHIZZY DAVians

Whizzy Davians is the vibrant spirit of DAV where energy meets excellence, blending sports and extracurricular activities into an inspiring journey of all-round development. From thrilling tournaments to creative events, it fuels teamwork, leadership and passion beyond the classroom. This dynamic platform encourages students to discover their talents, build confidence and celebrate every achievement—making college life lively, balanced and unforgettable.



BEYOND ACADEMICS at DAV

Project Ideation

Enhances creativity and problem-solving through mind mapping



Employment Communication

Develops professional skills for career success



Project Showcase

Builds confidence and professional exposure through presentations



Art of Living

Promotes mindfulness and emotional well being



Induction Session

Welcomes students and familiarizes them with college culture



Entrepreneurship

Fosters innovation and business skills



Technosocial Engagement

Connects technology with social impact



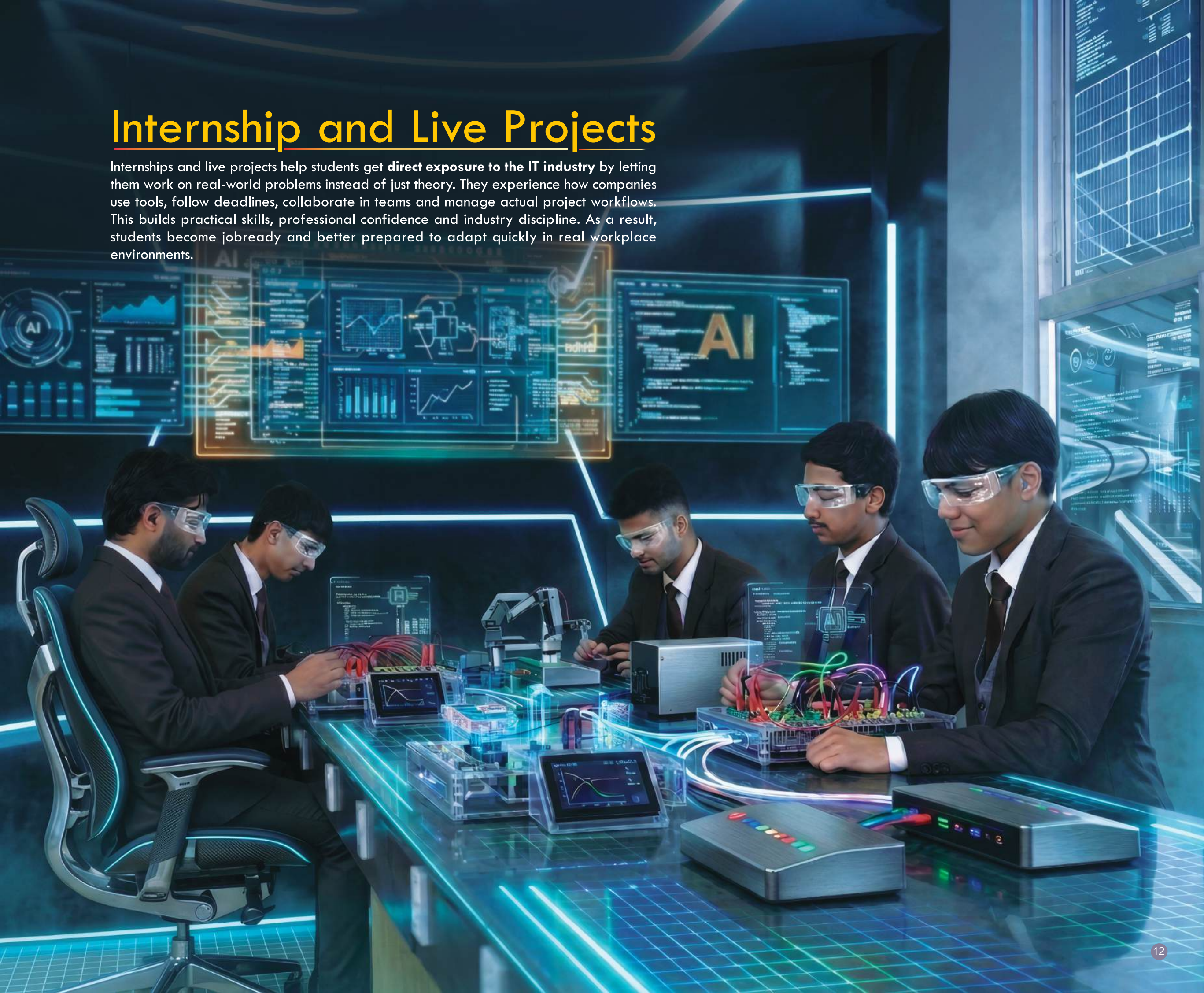
Experiential Learning

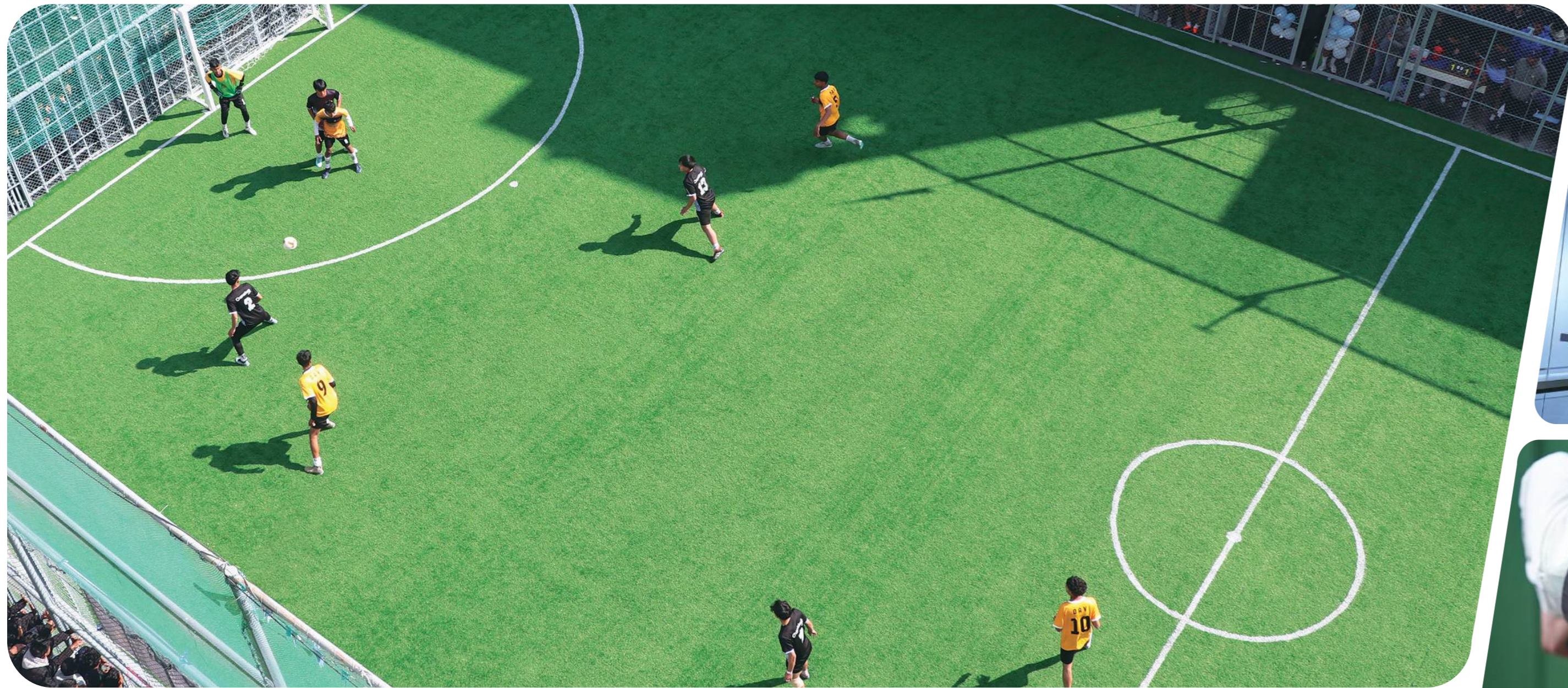
Deepens understanding through hands-on activities



Internship and Live Projects

Internships and live projects help students get **direct exposure to the IT industry** by letting them work on real-world problems instead of just theory. They experience how companies use tools, follow deadlines, collaborate in teams and manage actual project workflows. This builds practical skills, professional confidence and industry discipline. As a result, students become jobready and better prepared to adapt quickly in real workplace environments.





HOLISTIC HORIZON at DAV







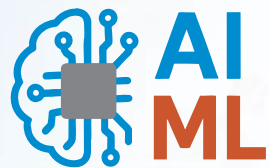
Meditation & Yoga

DAV play a key role in developing a healthy mind and positive lifestyle among students. Regular practice helps to reduce stress, improve concentration and enhance emotional balance, which is essential in academic life. It also promotes mental clarity, self-discipline and inner peace, enabling students to stay focused and motivated. By nurturing both mind and body, it builds a strong foundation for positivity, confidence and overall well-being.



“A Library is the delivery room for the birth of ideas.” - Norman Cousins

BCA CAREER PATHWAYS



Machines learning from big dataset



Software Development

Creating innovative web and mobile applications



Database Management

Ensuring efficient data storage and retrieval



Networking & System Administration

Maintaining and optimizing computer networks



Cybersecurity

Protecting digital systems from threats



Data Science

Analyzing data to extract valuable insights



IT Support

Providing technical assistance to users



Cloud Computing

Managing and deploying applications on cloud platforms



UI/UX Design

Creating user-friendly and visually appealing interfaces



Game Development

Designing and creating interactive games



Entrepreneurship

Starting and managing IT-based businesses



Higher Studies

Pursuing advanced degrees in IT fields



IT Sector Jobs

Securing employment in government and private IT sectors



TOPUPs at DAV

Practical Experience

Professional internships and learning through earning



Innovative Learning

Scholars' mind mapping class and workshops



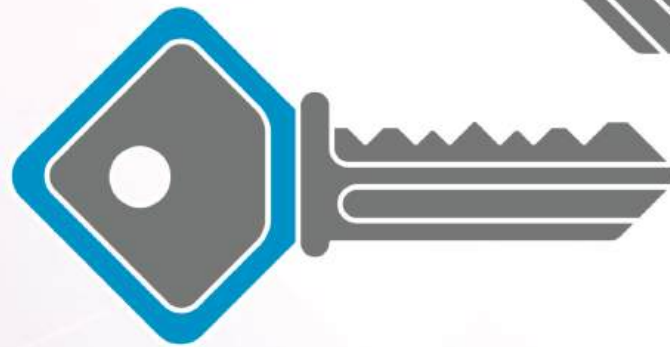
International Recognition

International certification courses



Faculty Excellence

Globally competitive professionals and scholars



Technological Advancement

Cutting-edge research technology



BCA COURSE CYCLE

Semester I

SN	Course Code	Course Title	Credit Hrs
1	BCA 101	Computer Fundamentals & Applications	3
2	BCA 102	Programming in C	3
3	BCA 103	Digital Logic	3
4	BCA 104	Mathematics - I	3
5	BCA 105	Professional Communication and Ethics	3
6	BCA 106	Hardware Workshop	1
Total			16

Semester II

SN	Course Code	Course Title	Credit Hrs
1	BCA 151	Discrete Series	3
2	BCA 152	Microprocessor and Computer Architecture	3
3	BCA 153	OOP in Java	3
4	BCA 154	Mathematics - II	3
5	BCA 155	UX/UI Design	3
6	BCA 156	Principles of Management	1
Total			16

Semester III

SN	Course Code	Course Title	Credit Hrs
1	BCA 201	Data Structure and Algorithms	3
2	BCA 202	Database Management System	3
3	BCA 203	Web Technology - I	3
4	BCA 204	System Analysis and Design	3
5	BCA 205	Probability and Statistics	3
6	BCA 206	Applied Economics	2
Total			17

Semester IV

SN	Course Code	Course Title	Credit Hrs
1	BCA 251	Operating Systems	3
2	BCA 252	Software Engineering	3
3	BCA 253	Numerical Methods	3
4	BCA 254	Python Programming	3
5	BCA 255	Web Technology - II	3
6	BCA 256	Project - I	2
Total			17

Semester V

SN	Course Code	Course Title	Credit Hrs
1	BCA 301	Computer Network	3
2	BCA 302	Artificial Intelligence	3
3	BCA 303	Advanced Java Programming	3
4	BCA 304	MIS and E-Business	3
5	BCA 305	Society and Technology	3
6	BCA 306	Project - II	3
Total			18

Semester VI

SN	Course Code	Course Title	Credit Hrs
1	BCA 351	Computer Graphics and Animation	3
2	BCA 352	Mobile Programming	3
3	BCA 353	Cryptography and Network Security	3
4	BCA 354	Technical Writing	2
5	BCA 355	Distributed System	3
6	BCA 356	Project - III	3
Total			17

Semester VII

SN	Course Code	Course Title	Credit Hrs
1	BCA 401	Cyber Security and Ethical Hacking	3
2	BCA 402	Software Project Management	3
3	BCA 403	Financial Accounting	3
4	BCA 404	Project - IV	3
5	BCA 405	Elective - I	3
6	BCA 406	Elective - II	3
Total			18

Elective I

1	BCA 404 - I	Machine Learning	3
2	BCA 404 - II	E - Commerce	3
3	BCA 404 - III	Database Administration	3
4	BCA 404 - IV	Linux	3

Elective II

1	BCA 405 - I	DotNet Technology	3
2	BCA 405 - II	Business Intelligence	3
3	BCA 405 - III	Software Testing and Quality Assurance	3
4	BCA 405 - IV	Data Visualization	3

Semester VIII

SN	Course Code	Course Title	Credit Hrs
1	BCA 451	Cloud Computing	3
2	BCA 452	Internship	3
3	BCA 453	Elective - III	3
4	BCA 454	Elective - IV	3
Total			12

Elective III

1	BCA 453 - I	Network Administration	3
2	BCA 453 - II	E - Governance	3
3	BCA 453 - III	Database Programming	3
4	BCA 453 - IV	Geographical Information System	3

Elective IV

1	BCA 454 - I	Digital Marketing and SEO	3
2	BCA 454 - II	Image Processing	3
3	BCA 454 - III	Internet of Things	3
4	BCA 454 - IV	Data Mining and Data Warehouse	3

Research Based Learning

“Think Deep, Research Smart, Innovate Beyond.”

DAV promotes to build a dynamic academic environment where inquiry, exploration and innovation lead to continuous knowledge creation and excellence.



Workshops and Training

Robotics

In the fields of robotics, electronics, art and technology, you will discover and improve your skills and creativity.

Graphics Design

Our design classes are structured so that no learner, whether a beginner or a seasoned pro is left behind. Everyone will find something to their liking.

Event Management

Develop leadership, teamwork and communication skills through organizing events both inside and outside the college.

Digital Marketing/Business Branding

Master digital strategies including search engine optimization (SEO), branding and online promotion to effectively reach and engage target audiences.

Artificial Intelligence

Understand AI principles, automation and cognitive technologies shaping the future.

Rag (Retrieval Augmented Generation)

Understand advanced AI systems that combine retrieval mechanisms with generative models to deliver accurate and context-aware outputs.

Data Science with Python

Gain practical skills in data analysis, visualization and machine learning using Python. Learn to handle real-world datasets and extract meaningful insights.

Game Development

Explore the fundamentals of game design and development using modern tools and engines to create interactive applications.

Mobile Apps Development

Learn to design and develop modern mobile applications with hands-on experience in real-world projects.

Iac Automation & Prompt Engineering

Learn Infrastructure as Code (IaC) integrated with prompt engineering to automate modern DevOps workflows efficiently

Generative AI for DevOps

Explore how generative AI enhances DevOps practices including automation, monitoring and intelligent deployment pipelines.



GPU-Powered Research & Simulation Lab

DAV College have a high-performance computing facility designed to accelerate learning in AI, machine learning, data science and advanced graphics processing. It provides students with hands-on experience in parallel computing and real-time data processing using modern GPU technologies.

This lab empowers learners to explore complex computational problems with speed, efficiency and innovation.







VOICE of Excellence



“ Studying Bachelor of Computer Applications (BCA) at DAV College was a transformative journey for me, where I enhanced my technical skills and personal development. I was surrounded by learning, creativity and new challenges and I grew a true passion for software development and problem solving. Every experience, from writing my first lines of code to building real world projects, helped me move closer to my goals. Now after completing BCA, I am working as Java Developer, turning my passion into a profession and exploring new opportunities in the world of technology. I would like to express my sincere thanks to DAV College for its guidance and support and being the most important part of my career.

Nischal Shakya
TU Board Topper
8th Semester, BCA 3rd Batch



“ As a BCA student at DAV College, I find my studies both interesting and valuable. We study a wide range of subjects, including software development, database and networking. The faculty is supportive and always willing to assist me. Studying at DAV College has been a great step towards building a future in technology. The college's practical learning approach and industry-oriented environment help me gain confidence and real-world skills. This strong foundation is guiding me towards a successful and impactful career in the IT field. Choosing DAV means choosing a pathway to confidence, competence and a successful future.

Anish Dangol
TU Board Topper
3rd Semester, BCA 4th Batch



“ My time at DAV College has been a rewarding experience. The college provided opportunities through clubs, events, workshops and activities that helped me grow beyond just academics. The faculty here actively create an environment where students are encouraged to participate, engage and keep improving. Along the way, I developed technical skills while also building confidence, communication and leadership skills. The environment here constantly pushes you to do more and grow, so for me, it has been the most valuable part of these years.

Prithvi Ghatani
TU Board Topper
7th Semester, BCA 4th Batch



“ As a student of DAV College, I have experienced a good balance between academics and extracurricular activities. The supportive teachers, interactive classes and friendly environment have helped me improve both academically and personally. The college provides many opportunities to explore creativity, leadership and teamwork. I am thankful to be studying in such a motivating and supportive environment. DAV College truly stands out for its commitment to quality education and holistic development, making it an ideal choice for students aiming for excellence.

Riya Chakradhar
Batch Topper
BCA 7th Batch

COLLEGE to CAREER

Ishwor Tamang

Lead Analytics
at Maya Hold Company
BCA 1st Batch



My time at DAV College was a transformative experience that shaped both my academic and professional journey. The college provided a supportive and growth-oriented environment where I was able to strengthen my technical skills while also developing leadership, communication, and problemsolving abilities through various events, workshops and collaborative activities. The guidance from faculty and the opportunities beyond the classroom played a significant role in building the confidence and mindset that continue to help me in my professional career today.

Ritika Bajracharya

COO at Moonlight
Creatives
BCA 2nd Batch



From sitting on the student benches at DAV College to standing at the front of the classroom as a BCA lecturer, my connection to this institution is profound. The foundation built here propelled me into the industry as a Software Engineer, allowing me to successfully handle corporate duties and oversee administration as the Chief Operating Officer at Moonlight Creatives. Now, I am proud to give back by equipping current students with the exact edge and real-world strategies required to thrive in today's digital landscape.

Gaurav Phuyal

Sports Media Entrepreneur
& Franchise Manager
BCA 2nd Batch



Before joining DAV, I always thought studies were not that important. But my time at DAV completely changed my perspective. The college taught me that education is not only about getting good grades but also about preparing for professional life. Through the environment, guidance and experiences at DAV, I learned discipline, responsibility and how to balance academics with personal growth. Today, I understand the value of making studies a priority while building myself for the future. I'm grateful to DAV for shaping my mindset and helping me grow.

Amrita Kushwaha

Project Manager
at Golyan Group
BCA 2nd Batch

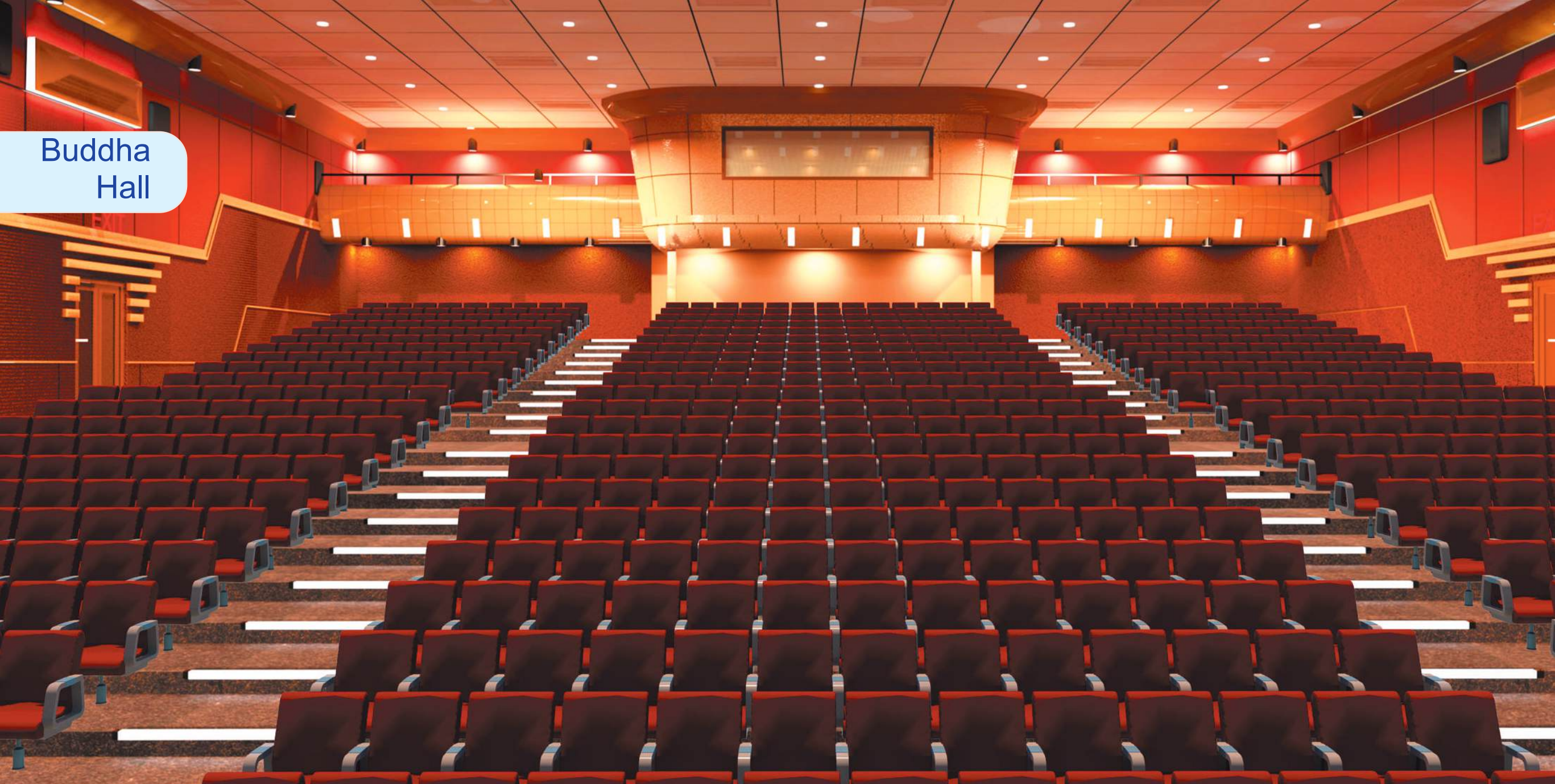


My time at DAV College has been a journey of continuous learning, growth, and self-development. Beyond academics, the college provided numerous opportunities through events, workshops and extracurricular activities that helped me strengthen my technical knowledge while also improving my confidence, communication and leadership skills. The supportive faculty and motivating environment constantly encouraged me to step beyond my comfort zone and strive for excellence, making these years truly meaningful and memorable.

"Career Acquisition Partners"



Buddha Hall



Sujata Hall



Jetavan Hall





DAV COLLEGE

Affiliated to TU

BCA (Bachelor in Computer Application) Program

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