

BSc CSIT

Bachelor of Science in Computer Science
and Information Technology

Your Future, Our Mission...



DAV
INTERNATIONAL
COLLEGE



Chairman's Insights

'The best way to predict the future is to invent it.'
- Alan Kay

At D.A.V. International College, we embrace this visionary mindset as we embark on the journey of shaping the next generation of IT professionals through our B.Sc. CSIT program. With the rapid advancements in technology and the ever-evolving landscape of the IT industry, our mission is to equip students with not only the technical expertise but also the innovative thinking necessary to excel in this dynamic field.

Our B.Sc. CSIT program is designed to provide a rigorous and comprehensive education that integrates theoretical knowledge with practical experience. We understand that success in the IT industry requires a deep understanding of emerging technologies, problem-solving abilities, and the capacity to adapt to new challenges. Therefore, we offer a curriculum that emphasizes hands-on learning, real-world applications, and industry collaboration to prepare students for the complexities of the modern tech environment. As we look to the future, we remain committed to fostering an academic environment that encourages creativity, critical thinking, and leadership. We believe that our students are not just learning about technology; they are being prepared to lead and innovate in a field that is shaping the future of our world.

'The future belongs to those who believe in the beauty of their dreams.'

- Eleanor Roosevelt



Anil Kedia
Chairman



Research & Placement Cell

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



Anil Kedia
Chairman



Mr. Suman Basnet
Member



Dr. Rameshwar Subedi
(Ph.D.)
Member



Mr. Shashi Bhushan Chaturvedi
Member



Mr. Sudip Adhikari
Member

Message from Program Executives



Mr. Shashi Bhushan Chaturvedi
Academic Head

D.A.V. International College is committed to shaping the future of the IT industry by providing quality education and fostering a culture of innovation and excellence. The college aims to create a learning environment that inspires students to explore new technology frontiers and equips them with the skills and knowledge needed to thrive in a competitive global market. Emphasizing practical learning, critical thinking, and adaptability, D.A.V. International College understands the IT industry demands professionals who can solve complex problems and work effectively in diverse teams. The college's state-of-the-art facilities and access to the latest technologies ensure students are well-prepared to meet industry standards.



Mr. Sudip Adhikari
Program Head

The B.Sc. CSIT program offers a comprehensive education in computer science and information technology, blending theoretical foundations with practical applications. The curriculum, affiliated with Far Western University, emphasizes hands-on learning through projects, laboratory work, and internships. The program's unique feature is the personalized attention and mentorship provided by experienced faculty members, who bring practical knowledge to the classroom. The program also encourages students to develop critical soft skills like communication, teamwork, and leadership. The goal is to produce graduates who are not only technically proficient but also innovative thinkers, ready to tackle the tech landscape's challenges.

About The University

Farwestern University, located in the picturesque region of Nepal, has been a beacon of higher education, particularly in the fields of science, technology, and information systems. Among its various programs, the Bachelor of Science in Computer Science and Information Technology (B.Sc. CSIT) stands out as a flagship course. This four-year program, spread across eight semesters, is designed to equip students with the necessary skills and knowledge to thrive in the rapidly evolving tech landscape. The program's interdisciplinary approach covers a broad spectrum of topics, including programming, software development, networking, and data management. Graduates of this program are well-prepared for a wide array of career opportunities in the tech industry, both within Nepal and globally.

As part of its commitment to providing quality education, Farwestern University has established various partnerships and collaborations with leading institutions. One such initiative is the establishment of D.A.V. International College, a premier institution that aligns with the university's mission to foster innovation and critical thinking in the field of computer science and information technology. D.A.V. International College not only shares Farwestern University's vision of creating leaders in technology but also provides a new arena for students to explore their potential in a conducive learning environment.



About Us

D.A.V. International College was established with the primary objective of creating an educational platform that caters to the growing demand for skilled professionals in the field of computer science and information technology. The college, affiliated with Farwestern University, serves as a hub for academic excellence and innovation. Its establishment is a testament to the university's commitment to expanding its reach and impact, ensuring that students from diverse backgrounds have access to world-class education in technology.

The new arena at D.A.V. International College is more than just a physical space; it symbolizes the institution's dedication to fostering a culture of learning, exploration, and collaboration. The state-of-the-art facilities, combined with a dynamic curriculum, provide students with an environment that encourages creativity and innovation. The college's infrastructure is designed to support a wide range of academic and extracurricular activities, ensuring that students receive a holistic education that goes beyond traditional classroom learning.





Scopes

The scope of the B.Sc. CSIT program at D.A.V. International College is vast, with graduates finding ample opportunities in various sectors. The demand for skilled professionals in computer science and information technology continues to grow, providing students with a competitive edge in the job market. Graduates of the program can pursue careers in several areas, including:

Software Developer

Cloud Solutions Architect

Business Intelligence Analyst

DevOps Engineer

UX/UI Designer

Data Engineer

IT Consultant

Technical Support Specialist

Digital Marketing Specialist

Blockchain Developer

Systems Analyst

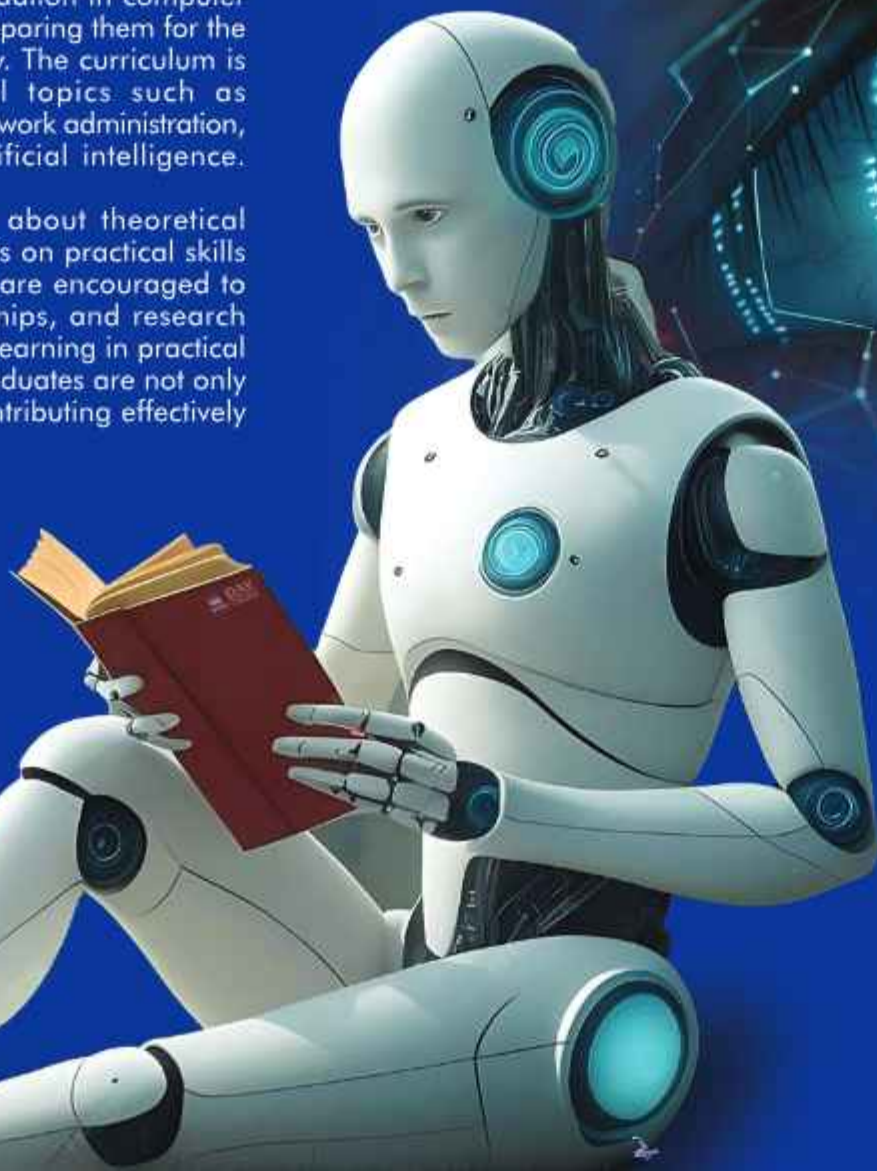
Web Developer



B.Sc. CSIT Course

The Bachelor of Science in Computer Science and Information Technology (B.Sc. CSIT) at D.A.V. International College is one of the most sought-after programs. The course is designed to provide students with a strong foundation in computer science and information technology, preparing them for the challenges of the modern tech industry. The curriculum is comprehensive, covering essential topics such as programming, software development, network administration, cybersecurity, data analysis, and artificial intelligence.

The B.Sc. CSIT program is not just about theoretical knowledge; it places a strong emphasis on practical skills and real-world applications. Students are encouraged to engage in hands-on projects, internships, and research activities that allow them to apply their learning in practical settings. This approach ensures that graduates are not only knowledgeable but also capable of contributing effectively to the technology sector from day one.



Mission

- ▶ Provide high-quality education in computer science and IT.
- ▶ Encourage innovation, critical thinking, and problem-solving skills.
- ▶ Prepare students to become skilled professionals in the tech industry.
- ▶ Empower students to contribute positively to society and the technology sector.

Vision

- ▶ Shape graduates into future leaders in technology.
- ▶ Drive technological advancements that improve productivity and quality of life.
- ▶ Create a learning environment that fosters creativity, ethical practices, and exploration.
- ▶ Establish the college as a leading institution in technology education.



Facilities

D.A.V. International College offers state-of-the-art facilities that enhance the learning experience for students. These facilities are designed to provide practical exposure to real-world challenges, ensuring that students are well-prepared for their future careers. Some of the key facilities include:

Computer Labs:

The college is equipped with computer labs that feature the latest hardware and software. These labs provide students with the tools they need to work on projects, conduct research, and develop their technical skills.

Learning Resources and Libraries:

Students have access to a wide range of learning resources, including digital libraries, textbooks, journals, and online databases. These resources support academic learning and research activities.

Collaboration Spaces:

The college provides collaboration spaces where students can work on group projects, discuss ideas, and collaborate with their peers. These spaces foster teamwork and encourage the exchange of ideas.

Internships and Industry Partnerships:

D.A.V. International College has strong partnerships with leading tech companies, offering students opportunities for internships and job placements. These partnerships provide valuable industry exposure and help students build professional networks.

Value Addition

To enhance the educational experience, D.A.V. International College offers several value-added services that go beyond traditional classroom learning. These include:



Industry Collaborations:

The college has partnerships with leading tech companies, providing students with opportunities for internships, job placements, and industry exposure.

Workshops and Seminars:

Regular workshops and seminars are organized, featuring industry experts who discuss emerging trends and technologies. These events provide students with insights into the latest developments in the tech industry.

Research Opportunities:

Students are encouraged to participate in research projects that contribute to advancements in the field of computer science and information technology. These projects help students develop critical thinking and problem-solving skills.

Networking Events:

The college organizes meet-ups and networking events where students can connect with alumni and industry professionals. These events provide opportunities for mentorship and career guidance.

Student Clubs:

D.A.V. International College has several student clubs focused on areas such as coding, robotics, and cybersecurity. These clubs provide a platform for peer learning and collaboration, allowing students to explore their interests and develop their skills.

Career Services:

The college provides dedicated career counseling and job placement assistance to help students transition smoothly into the workforce. These services include resume writing, interview preparation, and job search support.

B.Sc.CSIT Course Cycle

Semester I

Course Code		Credit Hours
CSIT. 111	English Grammer & Composition	3
CSIT. 112	Information Technology Fundamentals	3
CSIT. 113	Calculus and Analytical Geometry	3
CSIT. 114	Electronic Principles	3+1
CSIT. 115	Programming Fundamentals & C Programming	3

Semester II

Course Code	Course Title	Credit Hours
CSIT. 121	Data Structure and Algorithms	3
CSIT. 122	Digital Logic Design	3
CSIT. 123	Linear Algebra	3
CSIT. 124	Mechanics and Electrodynamics	3+1
CSIT. 125	Microprocessor System	3

Semester III

Course Code	Course Title	Credit Hours
CSIT. 211	Computer Organization and Architecture	3
CSIT. 212	Discrete Structures	3
CSIT. 213	Introduction to Management	3
CSIT. 214	Object Oriented Programming with C++	3
CSIT. 215	Operating System	3
CSIT. 216	Statistics and Probability	3

Semester IV

Course Code	Course Title	Credit Hours
CSIT. 221	Applied Statistics	3
CSIT. 222	Data Communication and Network	3
CSIT. 223	Database Management System	3
CSIT. 224	Numerical Methods	3
CSIT. 225	System Analysis and Design	3
CSIT. 226	Theory of Computation	3

Semester V

Course Code	Course Title	Credit Hours
CSIT. 311	Design and Analysis of Algorithm	3
CSIT. 312	Artificial Intelligence	3
CSIT. 313	Compiler Design	3
CSIT. 314	Simulation and Modelling	3
CSIT. 315	Graphics and Visual Computing	3
CSIT. 316	Web Technology I	3

Semester VI

Course Code	Course Title	Credit Hours
CSIT. 321	Introduction to Cryptography	3
CSIT. 322	Java Programming I	3
CSIT. 323	Research Methodology for Computer Science	3
CSIT. 324	Software Engineering	3
CSIT. 325	Web Technology II	3
CSIT. 326	Minor Project I	2

Semester VII

Course Code	Course Title	Credit Hours
CSIT. 411	E-commerce	3
CSIT. 412	Advanced Java Programming	3
CSIT. 413	Object Oriented Analysis and Design	3
CSIT. 414	Minor Project II	3
Elective I (any one)		
CSIT. 415.1	Net Centric Computing	3
CSIT. 415.2	Database Administration	
CSIT. 415.3	System Administration	
CSIT. 415.4	Digital Image Processing	
Elective II (any one)		
CSIT. 416.1	Data mining and Warehousing	3
CSIT. 416.2	Geographical Information System	
CSIT. 416.3	Management Information Systems	
CSIT. 416.4	Neural Networks	



Semester VIII

Course Code	Course Title	Credit Hours
CSIT. 421	Parallel Computing	3
CSIT. 422	Internship	4
Elective III (any one)		
CSIT. 423.1	Enterprise Application Development with Java	3
CSIT. 423.2	Advanced Database Design	
CSIT. 423.3	Network Administration	
CSIT. 423.4	Real-time Systems	
Elective IV (any one)		
CSIT. 424.1	Mobile Application Development	3
CSIT. 424.2	Distributed Database Management Systems	
CSIT. 424.3	Wireless Networks	
CSIT. 424.4	Cloud Computing	
Elective V (any one)		
CSIT. 425.1	Information Retrieval	3
CSIT. 425.2	E-business and E-governance	
CSIT. 425.3	Embedded System Programming	
CSIT. 425.4	Human Computer Interaction	

Eligibility

The prospective students applying for B.Sc.CSIT program should have :

- ▶ Successfully completed 12 years of education in science stream or equivalent from any university, board or institutions recognized by FU with at least 2nd division or higher.
- ▶ Students who have passed +2 science with biological group are also eligible
- ▶ Successfully passed the entrance exam conducted by department securing at least 35 % marks.
- ▶ Candidate must secure at least C grade in each subject in grade system



State-of- Art Infrastructures



D.A.V. Auditoriums





BSc. CSIT

Program



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INTERNATIONAL
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