BE A PART OF
TECH WORLD

BCA
Bachelor
of
Computer
Application

with International Certification Courses
CCNA CCNP MCSA FIREWALL RHCE

THE C PROGRAMMING LANGUAGE
COMPUTER ORGANIZATION

D.A.V.
COLLEGE
...in the service of education
Affiliated to TU

Chairman Message

Dear Students,

"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 of Science, Humanities and Technology. 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. You are 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 parents, to society, and to the nation.

We invest our trust on 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."
Best wishes.

Anil Kedia
Chairman

Innovative Cell

Join a community of D.A.V. research cell whose achievements have helped shape the modern - a place where country leading personality have worked or studied. You'll study in an academic environment that helps brilliant thinkers turn inspiration into reality.

Mr. Suman Basnet
Member

Mr. Rameshwor Subedi
Member

Mr. Shashi Bhushan Chaturwedi
Member

Er. Bishnu Khadka
Member

Mr. Anil Kedia
Chairman

Message from Program Coordinator

Information Technology is the science of information, the practice of information processing and the engineering of information systems. It studies the structure, algorithms, behavior, and interactions of natural and artificial systems that store, process, access and communicate information. Since the advent of computers, individuals and organizations increasingly process information digitally. This has led to the study of information technology that has computational, cognitive and social aspects, including study of the social impact of information technologies. D.A.V. College, is a centre of excellence for quality education in Information Technology with special focus on emerging trends. We provide the Global certification courses in ICT are CCNA , CCNP, Firewall, Red hat and different programming languages. We believe towards making learning a continuous process and endeavor to impart high quality education with a view to create a pool of world-class IT talent.

- Mr. Shashi Bhushan Chaturwedi
Coordinator

From the Desk of HOD

As the Head of the Department of Bachelor in Computer Application (BCA), I feel privileged to lead a department with a history of preparing the best minds to compete locally, nationally, and globally. My goal is to continue our commitment to innovation and research that will have a direct impact not only in our country, but also around the world. The department will continuously strive for enhancing the quality of the program offered. We are offering the quality education in the field of information technology since decade.

- Er. Bishnu Khadka
HOD

Why BCA ?

Today, Technology and Digital World Economy is of Multi trillion dolor, 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 indispensible part of every industry. The robotics, Machine learning ,AI,VR & AR has become core of every industry in the world. Today out of top 10 global company (June 2019), 7 are IT companies like Microsoft, Amazon, Apple, Alphabet, Facebook, Alibaba & Tencent. The pay cheque of IT professionals is highest among any other professionals, like Lawyers, Doctors, Bankers, Sports person etc.

In Future :

- We can not imagine any future job without computer and ICT application.
- All corporate house and big corporations communicates through ICT and applications.
- Every human work will be done by the Machine (AI).
- Without IT we can not imagine any daily work performed.
- 3D printing.
- Animations and design.

More than 60% of all future jobs has direct or indirect connections with computers and its application. And in future job will require skills of Computer & ICT. To address the market demand, Tribhuwan 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 procedures the candidates who are ready to face the future job market.

WHO WE ARE ?

DAV College initiated BCA Program from educational year 2019 whose main objective is to produce the highly qualified computer professionals & to impart what the real world market demands from the IT Expert. DAV Helps the student to enhance their skills and level of expertise in the field of the computer application development. Information technology (IT) is an area of business that emphasizes on the areas like computer technology support, computer network and database management, business software operations and information security. In this current global scenario, information technology is facing new challenges and issues related to diverse aspects like the growth of internet, additional computational capabilities, latest operating systems, web security, wireless and mobile communication protocol systems, etc. we are adding the one ladder ahead in the field of Information technology to make our country prosperous.

Vision

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

Mission

- Inspire to innovate and develop through Hi-tech life skills.
- Spearhead entrepreneurship for sustainability with ICT.
- To inculcate values that foster Nepalese culture.
- To ingrain the abilities and skills to survive, adapt, improvise and excel in the Global world of Science & Technology.

Goal

- Provide an array of intentional and relevant support and resource systems to help our students learn and to develop as leaders.
- Connect technology with social science.
- Recognizing the student's skills and strength.
- Enhancing the skills of the students.
- Empowering students to lead Nepal with ICT in the world areana.

Facilities

Globally fit faculty members

Scholars mind mapping classes

Workshop & project

Global certification courses

Learning through earning

Professional internship

State of art infrastructure with cutting edge research technology

BCA (Bachelor in Computer Application)

Medium of instruction and Examination	:	English
Duration	:	4 Years, 8 Semester
Intake	:	Every Year (August)
Awarded by	:	Tribhuwan University
Entry Requirements	:	PCL or +2 or equivalent

Minimum 40% marks or 2 CGPA (not less than D+ in single Subject) are eligible for admission in BCA program of Tribhuvan University.

Shift (Class Time) : Morning (6:30 AM to 12:00 PM)

Admission Procedure

Passed students in entrance examination (Conducted by office of Dean, Faculty of Humanities and Social Science, Tribhuvan University) shall be admitted on merit basis.

BCA Course Cycle

First Semester

SN	Course Code	Course Title	Credit Hrs	At DAV
1	CACS101	Computer Fundamentals & Applications	4	- Induction class
2	CASO102	Society & Technology	3	- Guest lecture by Dr. Dibakar raj Pant
3	CAEN103	English I	3	- Code for Change HTML and CSS training.
4	CAMT104	Mathematics I	3	- Photoshop Workshop
5	CACS105	Digital Logic	3	
		Total	**16**	

Second Semester

SN	Course Code	Course Title	Credit Hrs	At DAV
1	CACS151	C Programming	4	- Access World Visit
2	CAAC152	Financial Account	3	- Guest lecture on Block Chain Technology by ESatya
3	CAEN153	English II	3	- ICT Course CCNA, CCNP, Firewall, RedHat
4	CAMT154	Mathematics II	3	- Accounts Training Tally
5	CACS155	Microprocessor & Computer Architecture	3	
		Total	**16**	

Third Semester

SN	Course Code	Course Title	Credit Hrs	At DAV
1	CACS201	Data Structure and Algorithm	3	
2	CAST202	Probability & Statistics	3	- Object oriented programming Training JAVA & C#
3	CACS203	System Analysis & Design	3	
4	CACS204	OOP in JAVA	3	
5	CACS205	Web Technology	3	
		Total	**15**	

Fourth Semester

SN	Course Code	Course Title	Credit Hrs	At DAV
1	CACS251	Operating System	3	
2	CACS252	Numerical Method	3	
3	CACS253	Software Engineering	3	- Software engineering life cycle
4	CACS254	Scripting Language	3	- Project I: Live project demonstration
5	CACS255	Database Management System	3	
6	CAPJ256	Project I	2	
		Total	**17**	

Fifth Semester

SN	Course Code	Course Title	Credit Hrs	At DAV
1	CACS301	MIS and e-Bussiness	3	
2	CACS302	DotNet Technology	3	- Graphics and animation related project presentation
3	CACS303	Computer Networks	3	- Business Model Simulation Presented by Kedia
4	CAMG304	Introduction of Management	3	Organization
5	CACS305	Computer Graphics & Animation	3	
		Total	15	

Sixth Semester

SN	Course Code	Course Title	Credit Hrs	At DAV
1	CACS351	Mobile Programming	3	
2	CACS352	Distributed System	3	- Android & IOS Training
3	CAES353	Applied Economics	3	- Project II Demonstration
4	CACS354	Advanced Java programming	3	- ICT Examination
5	CACS355	Network Programming	3	
6	CAPJ356	Project II	2	
		Total	17	

Seventh Semester

SN	Course Code	Course Title	Credit Hrs	At DAV
1	CACS401	Cyber Law & Professional Ethics	3	
2	CACS402	Cloud Computing	3	- Cloud Computing Company visit
3	CAIN403	Internship	3	- Internship
4		Elective I	3	
5		Elective II	3	
		Total	15	

Eighth Semester

SN	Course Code	Course Title	Credit Hrs	At DAV
1	CAOR451	Operations Research	3	
2	CAPJ452	Project III	6	- Research & Innovation
3		Elective III	3	- Project III Demonstration
4		Elective IV	3	
		Total	15	

List of Electives

SN	Course Code	Course Title	Credit Hrs	At DAV
1	CAPS476	Applied Psychology	3	
2	CACS477	Geographical Information System	3	
3	CACS478	IT in Bank	3	. Elective Selection
4	CACS479	Hotel Information System	3	
5	CAER480	Enterprise Resource Planning	3	

Focus on Employability Skills

DAV College has a winning combination of world-class infrastructure, highly-qualified faculty combined with a unique academic delivery of domain knowledge, career advancement and employability skills. DAV also has a large contingent of respected professionals as visiting faculty. DAV College believes that holistic education that nurtures the mind, body, emotions and social responsibility is key to creating model citizens of the future. DAV's Centres of Excellence for personality development, continuous employability and social responsibility have been set up expressly for this. Besides, an emphasis on extra-curricular pursuits including research incubation, cultural activities and sports help students develop into well-rounded individuals.

Industry Labs

DAV labs are designed to keep pace with rapid technological advances which require resources to house cutting-edge tools and resource-intensive software. Access to Internet is provided through 24x7 dedicated leased line connectivity. All the systems are multimedia-enabled and run applications like Microsoft Office, SPSS, SAS Visual Basic, Oracle and tools for data modeling and simulation and also have well equipped labs for Digital Logic and Microprocessors.

Computer Lab complements the students 'in-class' theoretical learning experience with practical knowledge and real-world examples. Students get hands-on experience with the latest trends, tools and best practices of the industry. The students also get an opportunity to practice live trending on global IT sectors.

Personality Enhancement Program

DAV holds the opinion that the developing personality is one that has attributes that are enviable; the ability to perform well in public and be able to hold your own and make an impression on people with your skills socially and as a good personality, is something that cannot be matched up to by any other skill. Right from the first semester students are trained to grow personally & professionally.

The Personality Development Program at DAV helps in the following way to develop students' personality:

Highly experienced Trainers at DAV encourages you to bring out some of your hidden personality, thus helping you understand yourself and your value system better. This will help you to realize what you actually want and who you are.

DAV IT Club

This club aims at bridging the gap between class room teaching and practical knowledge through various activities like International Certification Course, Coding and Debugging, Quiz, Group Discussions etc.

DAV Business Club

This club organizes different events like Latest IT trends Program, entrepreneurship, Role Play, Quiz etc. to teach practical implications of theoretical knowledge.

DAV Innovation Centre

We search the different new ideas in the field of
information technology and where the world is going.

DAV Sports Club

This club organizes different sports games like Futsal, Cricket, Xbox Game, Indoors game e.t.c.

Internship and Live Projects

DAV's unique Internship projects have been very well received by recruiters across industries for its unmatched exposure and valuable on-the-job learning. Over the years, students are being benefited from the internship for its practical edge and industry experience. DAV students pursue internships with leading companies, which adds to their repertoire of achievements and accomplishments. Internship is one of the most effective methods of enhancing employability and a very important time span for Some of the marque companies who have offered internship and live projects to our students.

Guest Lecture by Assoc.Prof. Dr. Dibakar Raj Panta

Induction Class

Student Life

DAV offers a supportive and caring campus environment for you to develop socially, physically, intellectually, and spiritually. The college has a broad range of options for leadership growth, social activities, and community involvement while providing for students' extra courses.

Open GYM & YOGA

- DAV provides the environment for learning through the concept open gym and yoga.
- Provides not only quality education but also free to explore students idea by playing these Tools.

e-Library

Global level Library with well-furnished and peaceful environment.

Scopes

- Software Specialist
- Server Administrator
- Network Specialist
- IOT Designer
- Project Manager
- IT officer in Government & Private Sector
- IT Expert
- Freelancer
- Entrepreneurship
- Established his/her own Software Company

MoU

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BCA Prospectus 2019

www.davcollege.edu.np

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