



B. Sc. CSIT

(BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND INFORMATION TECHNOLOGY)

BCA*

(BACHELOR OF ARTS IN COMPUTER APPLICATION)



Affiliated to
Tribhuvan University



Message from the Principal

Welcome to Asian College of Higher Studies (ACHS), a center for innovative study. It gives me immense pleasure and a sense of gratitude to be part of ACHS as the Principal since its beginning. Being part of ACHS means being part of a family who is besides you during your contentment as well as toil. Everyone in ACHS is part of the family, not just an individual.

ACHS offers way more than just IT curricular studies to its students. Along with regular curricular studies, students are provided with lots of opportunities to learn via Guest Lectures, Workshops, Seminars, Trainings and several other co-curricular activities. ACHS since its beginning, now and will throughout promote students in such activities which enhances their skills and provides ample exposure to them.

ACHS infrastructure, management team, faculty members, teaching learning methodology to

other activities, everything is designed in scientific way that it will assist the students not only be a studious scholar but a contemporary professional who is market ready.

Ethics and morality are the major ingredients missing from modern day life-style. ACHS has a special emphasis on imparting these values to its students such that they become a better individual, a better professional and bring about the necessary change required by the society as well as country as a whole.

ACHS leaves no stone unturned to achieve its goals and objectives. Through skilled and experienced faculty members and dedicated management, ACHS has been and will indeed achieve new highs. Come join us in our innovative journey in an attempt to transpire the face of the nation.

~ Sabindra Maharjan

WEL-COME



WHO WE ARE

Asian College of Higher Studies (ACHS) is one of the finest college for IT studies in Nepal. Association with industry, collaboration with the leading IT companies of Nepal, state of the art infrastructure, experienced faculty members and other factors that have made ACHS a great place for IT education. ACHS's unique and innovative standards of education, are perpetuated by a world class advisory board. The Advisory Board comprises some of the most distinguished names from various companies and academic institutions of Nepal. ACHS invites you to join the journey of IT and Science education. We take you to your final destination of a bright career through holistic development of attitude, skill and knowledge. We offer four years Bachelor of Science in Computer Science and Information Technology (B.Sc. CSIT) affiliated to Tribhuvan University for students who wish to make key transitions in their career.

- ▶ To be an innovative global leader in imparting competitive quality education by transforming lives that will change the world for the better, at whatever level of the human endeavour they are involved.

Vision



Mission

- ▶ The mission of ACHS is to develop citizens of integrity with the technical expertise, vision, pragmatism and ethical sensibility to succeed professionally and personally on their own and with others. Also, we intend to prepare leaders to face the challenges of a dynamic and diverse world grounded in our ideas of excellence in education, the importance of community, and commitment to service.

INFRASTRUCTURE & FACILITIES





B. Sc. CSIT

(BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND INFORMATION TECHNOLOGY)

B. Sc. CSIT (Bachelor of Science in Computer Science and Information Technology) is a four years / 8 semesters / 126 credit hours course that offers intensive courses in Computer Science and Information Technology. This course allows you to specialize in the subject of your choice during the final semester. With lots of emphasis on practical based learning, the course gives you ample opportunities to pursue your career anywhere in the world.

Course Highlights:

- This is a very multidisciplinary course, with the opportunity to undertake exciting extra courses other than ones in CS IT Syllabus. Student studying this course will gain highly sought-after skills in computer programming, database development, networking, website development and computer security.
- Practical hands-on experiments is the most important requirement in any IT courses, for the purpose we have well equipped modern labs which will be used to illustrate how the theoretical concepts learned on class applies to the real context and the challenges it brings. These are vital skills for gaining entry into organizations, which demands confident and technically equipped IT graduates.
- Students will have the opportunity to work on real-world projects via 'Industry Projects' programmes, focusing on specialist areas of their choice, including: web technology, database or software development and to gain real-world work experience which is conducted by college every semester.
- Experience in co-operative working, planning and decision making through various group projects and class activities.
- Development of personnel professional level skills in technical writing, report writing, public speaking and presentation.



SUBJECT LISTING

YEAR 1

- Introduction to Information Technology
- C Programming
- Digital Logic
- Mathematics I
- Physics

SEM-I

- Discrete Structure
- Object Oriented Programming
- Microprocessor
- Mathematics II
- Statistics I

SEM-II

YEAR 2

- Data Structure and Algorithms
- Numerical Method
- Computer Architecture
- Computer Graphics
- Statistics II

SEM-III

- Theory of Computation
- Computer Networks
- Operating Systems
- Database Management System
- Artificial Intelligence

SEM-IV



List of Electives

Computer Science Elective V (Any one of the following courses)

Multimedia Computing
Wireless Networking
Image Processing
Knowledge Management
Society and Ethics in Information Technology
Microprocessor Based Design

Computer Science Elective VI (Any one of the following courses)

Applied Logic
E-commerce
Automation and Robotics
Neural Networks
Computer Hardware Design
Cognitive Science

Computer Science Elective VII (Any one of the following courses)

Information Retrieval
Database Administration
Network Security
Software Project Management
Digital System Design
International Marketing

Computer Science Elective VIII (Any one of the following courses)

Advance Networking with IPv6
Distributed Networking
Game Technology
Distributed and Object Oriented Database
Introduction to Cloud Computing
Decision Support System and Expert System
Geographical Information System
Mobile Application Development
Real Time Systems
Network and System Administration
Embedded Systems Programming
International Business Management

YEAR 3

- Design and Analysis of Algorithms
- System Analysis and Design
- Cryptography
- Simulation and Modeling
- Web Technology
- Elective I

SEM-V

- Software Engineering
- Compiler Design and Construction
- E-Governance
- NET Centric Computing
- Technical Writing
- Elective II

SEM-VI

YEAR 4

- Advanced Java Programming
- Data Warehousing and Data Mining
- Principles of Management
- Project Work
- Elective III

SEM-VII

- Advanced Database
- Internship
- Elective IV
- Elective V

SEM-VIII

BCA

BACHELOR OF ARTS IN COMPUTER APPLICATION

BCA is a four year undergraduate degree course in the field of computer applications or computer science. After BCA the students can do further studies as MCA master in computer application. It is a common degree for CS/IT universities and is an alternative to the engineering counterpart, BE/BTech in Computer Science/IT which also takes four years. It is a technical degree that prepares students for a career in the field of computer applications and software development.



Course Highlights:

- This is an integrative course, with an opportunity to know and learn about several other courses than just computer related course. Students after completion of the course can be associated with different genres of industries. Along with being part of IT industry, students can also be associated with industries like Banks, NGO's and INGO's and many others.
- The course consists of several hand-on and on the filed activities rather than just class room based teaching and learning. This enables students to gain real world and practical based skills to be easily marketable for industry.
- Internship and project works are key aspects of this course. Students via these on-the-site courses get ample opportunity to learn about the working procedure of the industry. It provides prospect to the students to know about industry during their academic years itself.
- Experience in co-operative working, planning and decision making through various group projects and class activities.
- Development of personnel professional level skills in technical writing, report writing, public speaking and presentation.



SUBJECT LISTING

YEAR 1

- Computer Fundamental & Application
 - Society & Technology
 - English I
 - Mathematics I
 - Digital Logic
- SEM-I
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- C Programming
 - Financial Accounting
 - English II
 - Mathematics II
 - Microprocessor and Computer Architecture
- SEM-I

YEAR 2

- Data Structure & Algorithms
 - Probability and Statistics
 - System Analysis and Design
 - OOP in Java
 - Web Technology
- SEM-II
-
- Operating System
 - Numerical Methods
 - Software Engineering
 - Scripting Language
 - Database Management System
 - Project I
- SEM-IV

YEAR 3

- MIS and e-Business
 - Dot Net Technology
 - Computer Networking
 - Introduction to Management
 - Computer Graphics and Animation
- SEM-V
-
- Mobile Programming
 - Distributed System
 - Applied Economics
 - Advance Java Programming
 - Network Programming
 - Project II
- SEM-VI

YEAR 4

- Cyber Law & Professional Ethics
 - Cloud Computing
 - Internships
 - Elective I
 - Elective II
- SEM-VII
-
- Operations Research
 - Project III
 - Elective III
 - Elective IV
- SEM-VIII

List of Electives

- Applied Psychology
- Geographical Information System
- IT in Banking
- Hotel Information System
- Enterprise Resource Planning
- Knowledge Engineering
- Advanced DotNet Technology
- Database Programming
- Database Administration
- Network Administration



Hamro LMS ACHS LEARNING SYSTEM

ACHS Learning System is a web portal system that provides all students with individualized web services and information – all from one simple login point. Once student logged in into the system, the system will act as a gateway to all the resources required for students. The main features of LMS includes records of attendance, assignments, notices, messaging system, discussiveion forum, downloading course resources, individual course activities, uploading and downloading files and resources which facilitates an effective teaching-learning platform.

Beyond Curriculum

Teaching Methodology

Learning at ACHS is not just about books but preparing for life. ACHS has designed a state-of-art synchronous learning methodology combining the best features of conventional classroom learning with world-class resource center and job readiness internship program, thus providing a true link between education and employment.

Student's Club

The student's club is aimed at encouraging togetherness by organizing various campaigns, activities and events that help students in pursuing their career goals, while installing strong values and principles in them.

Understanding Life Skills

We want our students to have a holistic approach which transforms them into multifaceted professionals. Therefore, ACHS helps the students understand people skills, managing their career, multi- tasking work, learn presentation skills, building confidence, managing self and having a multicultural approach.

Career Development Cell

We are ACHS strive to develop campus life by providing opportunity for personal growth and leadership development to all students. This is accomplished by giving freedom of expression, social interaction and active participation for all students. Students input, opinion and action are highly appreciated.

Industry Interface

An integral aspect of CSIT studies is the industry project. Students will get ample of opportunities to work on industrial projects and in house training sessions which help them to get familiarized with the real world work.





Monika Rana (2014 Batch)

After +2, I was so confused to choose right college that would fulfill my expectation in the field of IT. ACHS college was suggested to me by one of my friend. Now I'm already a part of it, I am fully satisfied with the teaching-learning methodologies and infrastructures. This is the perfect place to make you academically acquainted.

Shisir Thapa (2015 Batch)

Approaching for advanced e-learning management system makes ACHS one step ahead from any other IT colleges. ACHS believes in student's skill and motivates to bring most out of them.



Shreya Shrestha (2016 Batch)

The dedication and support shown by each of the staff is remarkable and enables students like myself to achieve their dreams. The effort put by the staffs of ACHS College motivates students to get better in every aspects of life. Thank You ACHS College for all your efforts.



Nischal Thapaliya (CSIT 4th Semester 2073 Batch)

After visiting several colleges, I believed that my best route will be to peruse my bachelor from ACHS College. Thank you ACHS! For being the place where I discovered myself, where I got opportunity to spread my wings and got to be part of memorable experience and also providing a better platform for me to show my talent, elaborate my knowledge and improve on my weaknesses.



Diksha Lamichhane (CSIT 2nd Semester 2074 Batch)

After visiting several colleges, I believed that my best route will be to peruse my bachelor from ACHS College. Thank you ACHS! For being the place where I discovered myself, where I got opportunity to spread my wings and got to be part of memorable experience and also providing a better platform for me to show my talent, elaborate my knowledge and improve on my weaknesses.





ADMISSION PROCESS

Eligibility:

10+2 or equivalent in science discipline with minimum of 50% marks in aggregate from a recognized board.

Applicants are required to appear in the entrance test conducted by Institute of Science and Technology, Tribhuvan University (ISOT-TU) and should secure at least 35% marks in order to be eligible.

Application Form:

The Admission Form and Entrance Model Questions can be received from any of the B.Sc. CSIT colleges. Students do not need to fill up the TU Admission Form in more than one college. Form filled from one college will be valid for all colleges/campuses.

TU Entrance Examination:

- The Entrance Examination will be of 100 Full Marks including the subjects of Intermediate/10+2 level or equivalent incorporating English, Mathematics, Physics and Chemistry subjects.
- All the Questions of Entrance Examination will be Objective Type.
- The Pass Marks of the Entrance Examination is 35 Marks.
- The Examination Time Duration will be of 2 hours.

OUR PARTNERS

EKbana



DIGITAL GURKHA
THE GROWTH HACKERS



inficare

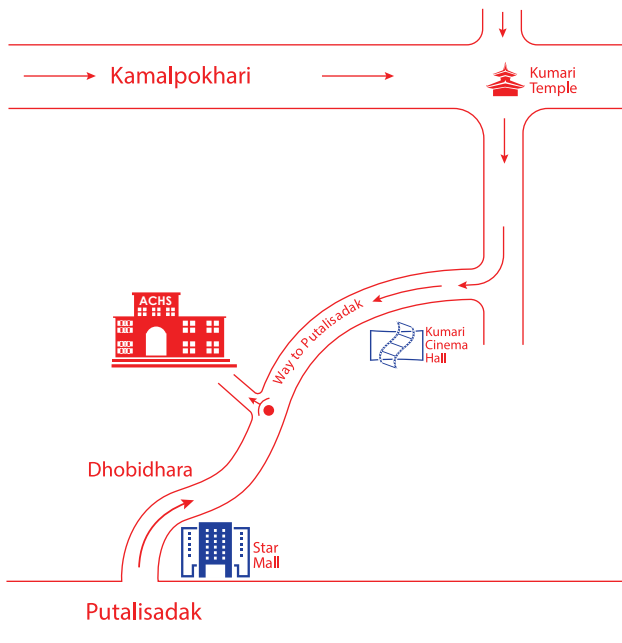
INTERNATIONAL TIE-UP



LIFE@ ACHS







Location

ACHS is situated at a peaceful premise in Dhobidhara, Kathmandu, way to Kumari QFX Cinema.

How to get there:

By walk:

- 50 meters ahead from Putalisadak Chowk.
- 100 meters from Kumari Temple Kamalpokhari.



Dhobidhara, Kathmandu,
State-3, Nepal

(Near Kumari QFX Cinema)

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