KCT Kathmandu College of Technology

ismt™ Group

BBS | BCA | BSc. CSIT

Affiliated to Tribhuvan University

www.kct.edu.np

About US

Kathmandu College of Technology (KCT), a modern college, is established in 2013 with an aim to significantly contribute to shape the career of +2 graduates in the field of Applied Computing, Information Technology and a range of management and leadership roles. The programs , BBS, BCA & BSc. CSIT at KCT is affiliated to Tribhuvan University (TU). The college, in fact, is committed to helping students to develop skills, knowledge, and attitudes that help them pursue careers in a range of roles in IT, Computing and management and leadership positions.

KCT understands the advancement of Information Technology which continues to have a profound impact on industries and businesses in our life, and addresses the need of technically competent graduates to provide appropriate applied computing solutions that industry requires.

Besides curricula designed by the University, the college will also teach students soft skills, problem solving skills, critical thinking, and industry relevant additional IT courses. Most importantly, the course taught offers both theories & practical applications where students are encouraged to apply their classroom instructions to professional environment through project works and internship opportunities. Emphasis is placed on helping students to develop skills, knowledge in technical areas that have practical value in the workplace.

KCT exists to provide its students a combination of leading-edge theories and technical understanding plus hands-on practical experience to prepare our students for a successful career as an IT professional within the country and around the globe.

AIM

We aim to teach, train, guide and motivate students to equip them with the comprehensive skills and knowledge necessary to excel in both the dynamic fields of technology and business.

MISSION

The mission of the KCT is to empower the next generation of professionals in Computing, IT and Management by providing a transformative educational experience that combines the latest and updated technical expertise along with strategic business skills, fostering innovation, research and creativity.

VALUES

Institutional values influences how we make and carry out decisions, and how we interact with internal and external constituencies. Our core values are:

- **Dedication**
- **Honour**
- **Respect**
- **Responsibility**
- **Trust**

BSc.CSIT

BSc. Computer Science & Information Technology

The course is taught over the four years and in eight semesters. Students spend considerable time in the lab, where they are encouraged to apply what was taught in the classroom and see for themselves how, why and what makes things work.

BSc.CSIT Syllabus

FIRST SEMESTER

CSC-114	Introduction to information Technology
CSC-115	C Programming
CSC-116	Digital Logic
MTH-117	Mathematics I
PHY-118	Physics

SECOND SEMESTER

CSC-165	Discrete Structure
CSC-166	Object Oriented Programming
CSC-167	Microprocessor
MTH-168	Mathematics II
STA-169	Statistics I

THIRD SEMESTER

CSC-211	Data Structure and Algorithms
CSC-212	Numerical Method
CSC-213	Computer Architecture
CSC-214	Computer Graphics
STA-215	Statistics II

FOURTH SEMESTER

CSC-262	Theory of Computation
CSC-263	Computer Networks
CSC-264	Operating Systems
CSC-265	Database Management System
CSC-266	Artificial Intelligence

FIFTH SEMESTER

CSC-325	Design & Analysis of Algorithms
CSC-326	System Analysis & Design
CSC-327	Cryptography
CSC-328	Simulation & Modelling
CSC-329	Web Technology

Elective: Any one

CSC-330	Multimedia Computing
CSC-331	Wireless Networking
CSC-332	Image Processing
CSC-333	Knowledge Management
MGT-334	Society & Ethics in IT
CSC-335	Microprocessor Based Design

SIXTH SEMESTER

CSC-375	Software Engineering
CSC-376	Compiler Design & Construction
CSC-377	E-Governance
CSC-378	NET Centric Computing
CSC-379	Technical Writing
	Elective II

Elective: Any one

CSC-380	Applied Logic
CSC-381	E-commerce
CSC-382	Automation & Robotics
CSC-383	Neural Networks
CSC-384	Computer Hardware Design
CSC-385	Cognitive Science

SEVENTH SEMESTER

CSC-419	Advanced Java Programming
CSC-420	Data Warehousing & Data Mining
MGT-421	Principles of Management
CSC-422	Project Work
	Elective III

Elective: Any one

CSC-423	Information Retrieval
CSC-424	Database Administration
CSC-425	Software Project Management
CSC-426	Network Security
CSC-427	Digital System Design
MGT428	International Marketing

EIGHTH SEMESTER

CSC-475	Advanced Database
CSC-476	Internship
	Elective IV
	Elective V

Elective: Any two

CSC-477	Advanced Networking with IPV6
CSC-478	Distributed Networking
CSC-479	Game Technology
CSC-480	Distributed & Object Oriented Database
CSC-481	Introduction to Cloud Computing
CSC-482	Geographical Information System
CSC-483	Decision Support System & Expert System
CSC-484	Mobile Application Development
CSC-485	Real Time Systems
CSC-486	Network & System Administration
CSC-487	Embedded Systems Programming
MGT-488	International Business Management

BCA

Bachelor in Computer Application

Bachelor of Computer Applications (BCA) is an undergraduate degree course affiliated with TU, taught over four years and eight semesters. With the rapid growth of IT industry in worldwide, the demand of computer professional is increasing day by day. This increasing growth of IT industry has created a lot of opportunities for the computer graduates. KCT has outstanding result in BCA till date.

Bachelor in Computer Application (BCA) is one of the courses that connects students to an promising career in computing and IT. The course helps students develop a lot of practical in hand skills in different areas in IT and computing. The students interested in computer field and wants to work in the IT sector as Programmer or Software Developer can study this course.

BCA Syllabus

FIRST SEMESTER:	
BCA 101	Computer Fundamentals and Applications
BCA 102	Programming in C
BCA 103	Digital Logic
BCA 104	Mathematics-I
BCA 105	Professional Communication and Ethics
BCA 106	Hardware Workshop

SECOND SEMESTER:	
BCA 151	Discrete Structure
BCA 152	Microprocessor and Computer Architecture
BCA 153	OOP in Java
BCA 154	Mathematics-II
BCA 155	UX/UI Design
BCA 156	Principles of Management

THIRD SEMESTER:	
BCA 201	Data Strucrure and Algorithms
BCA 202	Database Management System
BCA 203	Web Technology-1
BCA 204	System Analysis and Design
BCA 205	Probability and Statistics
BCA 206	Applied Economics

FOURTH SEMESTER:	
BCA 251	Operating Systems
BCA 252	Software Engineering
BCA 253	Numerical Methods
BCA 254	Python Programming
BCA 255	Web Technology-II
BCA 256	Project-I

FIFTH SEMESTER:	
BCA 301	Computer Network
BCA 302	Artificial Intelligence
BCA 303	Advance Java Programming
BCA 304	MIS and E Business
BCA 305	Society and Technology
BCA 306	Project II

SIXTH SEMESTER:	
CACS351	Mobile Programming
CACS352	Distributed System
CAEC353	Applied Economics
CACS354	Advance Java Programming
CACS355	Network Programming
CAPJ356	Project II

SEVENTH SEMESTER:	
BCA 401	Cyber Security and Ethical Hacking
BCA 402	Software Project Management
BCA 403	Financial Accounting
BCA 404	Project IV
BCA 405	Elective I
BCA 406	Elective II

EIGHTH SEMESTER:	
BCA 451	Cloud Computing
BCA 452	Internship
BCA 453	Elective III
BCA 454	Elective IV

LIST OF ELECTIVE COURSES

SEVENTH SEMESTER

Elective I

BCA 404 -I	Machine Learning
BCA 404 -II	E Commerce
BCA 404 -III	Database Admission
BCA 404-IV	Linux

Elective II

BCA 405-I	Dotnet Technology
BCA 405-II	Business Intelligence
BCA 405-III	Software Testing and Quality Assurance
BCA 405-IV	Data Visualization

EIGHTH SEMESTER

Elective III

BCA 453 I	Network Administration
BCA 453 II	E Governance
BCA 453 III	Database Programming
BCA 453 IV	Geographical Information System

Elective IV

BCA 454 -I	Digital Marketing And SEO
BCA 454 -II	Image Processing
BCA 454-III	Internet Of Things
BCA 454 -IV	Data Mining and Datawarehouse

Why Study

BSc. CSIT BCA & BBS AT KCT ?

KCT recognizes the exiting gaps between industry and human resources available. Therefore, the college is committed to delivering the education that addresses the needs of industries face or likely to face in the mid twenty-first century. The teaching and learning strategies applied enable students develop capabilities to solve the problems and deal with the challenges in both familiar and unfamiliar circumstances. This means KCT prepares students to address the need of technically competent IT professionals that business industries, government bodies, NGOs, INGOs, hospitals, banks and other kinds of organizations require.

This is achieved through engaging students in different project works and assignments which help them possess the appropriate combination of knowledge and practical to take care of both organization's information technology infrastructures and the people who use it. Further, experiential learning and hands-on exposure to current and emerging technology is a key feature at KCT's IT courses. Students will have access to fully equipped and specialized computer laboratories right from the beginning of your course. Also, the college maintains strong industry links through research and educational programmes, so our students have the opportunity to be involved in the industry projects and work experience.

Most importantly, KCT puts all its efforts to produce graduates who are multi-skilled, multi-tasked and good human who will be well-rounded IT professionals with significant exposure to a diverse range of IT practices and possess the ability to identify changing needs of relevant sectors through research and develop IT and computing solutions to address those needs in this ever-evolving and fast moving industry.

Additional Courses offered at KCT

There can be variation as per the need of students and industry requirements

Career Path

- *Software Developer*
- *Web Developer*
- *Network Administrator*
- *Database Administrator*
- *IT Manager*
- *Cryptographer*
- *Ergonomics Program*
- *System Analyst*
- *Project Manager*
- *AI Specialist*
- *Information System Manager*
- *Database Operator*
- *Researcher*
- *Database Engineer*
- *And many more…*

BBS

Bachelor of Business Studies

The Bachelor of Business Studies (BBS) is a four-year undergraduate program. The program aims to cultivate students' analytical and critical thinking abilities, empowering them to make informed decisions in the business realm. With a mix of theoretical knowledge and practical experiences, the BBS course sets students up for diverse career opportunities in management, entrepreneurship, or further studies. Get ready to embrace an exciting educational path that equips you for success in the ever-evolving business landscape.

BBS Syllabus

First Year (500)	
MGT-201	Business English 100
MGT-202	Business Statistics 100
MGT-203	Microeconomics 100
MGT-211	Accounting for Financial Analysis 100
MGT-213	Principles of Management 100

Second Year (500)	
MGT-205	Business Communication 100
MGT-206	Macroeconomics 100
MGT -212	Cost and Management Accounting 100
MGT-214	Fundamentals of Marketing 100
MGT-216	Foundation of Human Resource Managent 100

Third Year (500)	
MGT-204	Business Law 100
MGT-215	Fundamentals of Financial Management 100
MGT-217	Business Environment and Strategy 100
MGT-218	Taxation and Auditing 100
MGT-219	Organizational Behavior 100

Fourth Year (500)	
MGT-220	Entrepreneurship and Enterprise Development 100
MGT-401	Business Research Methods 50
MGT-221	Business Research Methods 50
	Concentration I 100
	Concentration II 100

Students Testimonial

★ ★ ★ ★ ★

I couldn't be happier with my experience at Kathmandu College of Technology. The supportive staff truly make a difference in the learning environment. From the moment I enrolled, the faculty and administrative team have been incredibly welcoming and attentive to student's needs.

Apart from academic excellence offered by this college system it has also extended generous scholarships that were instrumental in making my education less expensive than it should have been. Such funds enable me to devote all my energies towards studying. I highly recommend Kathmandu College of Technology to anyone seeking a supportive and enriching educational experience in the IT field.

Prashana shrestha
(BSc. CSIT 2076 Batch)

★ ★ ★ ★ ★

As a BCA 6th semester student at Kathmandu College of Technology, I have had a highly positive experience with the teaching and learning environment here. The college strongly emphasizes practical education, aligning with the requirements of our course. This approach has significantly enhanced my understanding and application of the concepts we study. Additionally, the college administration is extremely supportive, consistently coordinating and considering the needs of the students. I am grateful for the nurturing and professional atmosphere that KCT College provides, which has contributed significantly to my academic and personal growth.

Prajwal Khatiwada
(BCA 2077 Batch)

★ ★ ★ ★ ★

As a student of Kathmandu College of Technology, I wanted to share some thoughts and feedback regarding our current academic environment.

Firstly, I want to express my appreciation for the dedication and effort of our faculty and administration in maintaining a high standard of education and support. The opportunities provided for both academic and personal growth are truly valuable.

I believe that by working together, we can continue to make KCT an even better place for all students. Thank you for your time and attention.

Soniya Shrestha
(BCA 2080 Batch)

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