

INTRODUCTION

Nagarjuna College of Information Technology (NCIT), excellently managed by Nagarjuna Group of Institutions, is a dynamic educational institution. NCIT has been successfully running B.Sc. CSIT, BCA, BIM, BBM and BBS programmes in affiliation with Tribhuvan University. NCIT has been founded with a set of academicians and entrepreneurs to meet the global demand for qualified and skilled manpower in the field of science and technology with special focus on IT and Management. NCIT has many professors, readers, lecturers, scholars and IT experts for attending the classes for both theory and practice. NCIT gives equal emphasis to theoretical and practical pedagogy to develop students with the requirement of the century by enhancing their multifaceted professionalism for survival in the era of competition.

NCIT believes that students should not be just book worms; therefore, we make our effort to provide them great deals of opportunities to broaden not only subject knowledge but also their comprehensive knowledge with the current developments. NCIT has got a prominent location within an easy reach just near Shankha Park, Lalitpur. It is equipped with latest technology, resources and communities. The college; thus, turns to be an ideal center of the education characterized by its stimulating and supportive environment.

Mission of NCIT

The mission of NCIT is to enroll exceptional students from all walks of life from all across the country and educate them to reach their full intellectual, moral, civil and creative potential.

NCIT provides a high quality, student - centered educational experience using outing-edge research to push the boundaries of knowledge and global education. It also provides a long - term educational foundation based on the quest for knowledge and the development of professionalism, which will give students a competitive advantage in their ability to perform at a global level.

Vision of NCIT

Nagarjuna College of Information Technology is a lifetime partnership that analyzes and adopts a creative thinking approach from both a local and global perspective, preparing students for 21st-century concerns. Dedicated to bringing Nepalese education up to international standards. A globally respected academic institute that promotes noble professional practices in Nepal and South Asia by forging new paths and cultivating "ethical," trustworthy, entrepreneurial, and socially conscious leaders, educators, and IT professionals dedicated to achieving outstanding achievements.

Values of NCIT

- · Dedicated to students' education, training and support.
- Treat everyone with respect.
- Encourage an equal opportunity culture that values diversity.
- · Continually seek to remain affordable to students.
- · Committed to ensuring that Nepalese students have access to high quality education.

Goals of NCIT

- To enhance research activities by investing new technology to enhance the student learning experience.
- To foster national and international collaboration by building partnership with other colleges and universities along with business and organization outside the education sector.
- Maximizing the educational quality, experience and core outcomes for every student.
- To increase faculty development opportunities or investing in new technologies or resources to enhance the student learning experience.
- To ensure sustainable growth, financial responsibility and financial stability.
- · To create an inclusive college environment that promotes diversity, equity and inclusion.
- To enhance educational quality based on results of internal and external assessments by implementing recommendations and best practices in curriculum development, teaching and students support services.



Bachelor of Science in Computer Science and Information Technology (B.Sc. CSIT)

B.Sc. CSIT is a four year (eight semesters) programme of Tribhuvan University offering an integrated information technology and science courses. The students from this programme will be equipped with IT knowledge of both software and hardware systems. The programme equally focuses on intensive courses in theory, design, programming and application of computers as well as service courses to meet the need of ultra-modern technology and applications like artificial intelligence, machine translation, simulation and modelling.

OBJECTIVES AND MISSION

The mission of NCIT is to provide innovative educational environment, opportunities and experiences that enable individuals to grow prosper in the field of information technology.

The objective of B.Sc. CSIT course is to prepare the students to pursue career advancement in the field of both CS and IT. At the completion of this degree, the students will be able to solve the problems in computer science and IT, able to design the real world problem, e-media product and create technical solution to hardware and software problems.



SPECIFIC OBJECTIVES OF THE PROGRAM

- To prepare IT professionals proficient in the use of computers and computational techniques in order to develop effective information system to solve real life problems in the organizational milieu.
- To offer intensive knowledge in the theory, design, programming and application of computers.
- To provide necessary skills in the functional knowledge of hardware and software systems.

KEY FEATURES OF B.SC. CSIT

- B.Sc. CSIT is the industry focused course to build a strong foundation in Computer Science and Information Technology.
- · Learning by both theory and practice.
- Developing under principles of both CS and IT to solve real world problems.
- Aims to produce middle and top level IT professionals, who are ready enough to accept ever growing challenges.



SCHOLARSHIPS

The students able to prove their excellence in academics, sports and extra curriculum activities are eligible to apply for the scholarship at college administration.

NCIT offers various scholarships in the form of tuition waiver to encourage and support talented, needy and deserving students with outstanding academic credentials and exceptional extra-curricular achievements in other fields by which they can uplift the fame of college.

- Free laptop to the TU topper in the University Board Examination.
- Attractive schemes for semester exam topper (s).
- Free scholarship for the needy and meritorious students.

B.SC. CSIT PROSPECTS OF CAREER AND ADVANCE EDUCATION

The B.Sc. CSIT graduates have a prosperous career opportunity at government, private and public organizations like software companies, telecommunications, network companies, banks, etc. A successful B.Sc. CSIT graduate can perform as Software Engineers, Network Administrators, Database Administrators, Web Developers, IT Managers, Government Officers, Application Developers, Quality Assurance Engineers, Technical Content Writers, Cryptographers, Telecommunication Engineers, Information Security Analysts and so on.

TEACHING PEDAGOGY

The teaching pedagogy includes class lectures, group discussion, case studies, practical exercise, laboratory work, project work, tutorials, workshop, seminars, presentation, software industry visit, observation and term paper presentations. The faculty will determine the choice of the teaching methodology according to the needs of the course. The concerned teacher/instructor shall develop a detailed course outline and work plans at the beginning of each semester and also recommend the basic textbook and other reference materials for teaching learning of the course modules.



ELIGIBILITY REQUIREMENTS

- The applicant applying for B.Sc. CSIT program must have completed at least 12 years of schooling or equivalent from any university/board recognized by Tribhuvan University.
- Applicant should have minimum grade "C" (1.8 CGPA) in all the subjects of grade 11 and 12 or minimum score of second division marks in 10+2 Science with 100 marks Math.
- Applicant from A Level Science with 100 marks Math should have minimum D Grade.
- Applicant from CTEVT should have 3 years diploma Engineering with Math & Physics major.
- · Should have passed the entrance examination conducted by Institution of Science and Technology (IOST), TU.

B.SC. CSIT SEMESTER COURSE CYCLE

The B.Sc. CSIT Curriculum is designed by following the course practice in International Universities. In addition to core computer science course, the program offers service courses to meet the need of technology applications. All the students are required to complete 126 credit hours of computer science and information technology courses. This program comprises the following courses in eight different semesters.

Course Code

PHY 118

CSC 211

CSC 212 CSC 213 CSC 214 STA 215

CSC 114 Introduction to IT **CSC 115** C Programming **CSC 116** Diaital Loaic MTH 117 Mathematics I

Physics



Course Code

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

SEMESTER

Course Code

the state of the s
Data Structure and
Algorithms
Numerical Method
Computer Architecture
Computer Graphics
Statistics II

Course Description

Course Description

Course Description



Course Code Course Description

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



Course Code

CSC 325	Design and Analysis of Algorithms
CSC 326	System Analysis and Design
CSC 327	Cryptography
CSC 328	Simulation and Modeling
CSC 329	Web Technology
	Elective I



Course Description

	Course Bosonphism
CSC 375	Software Engineering
CSC 376	Complier Design and
	Construction
CSC 377	E-Governance
CSC 378	Net Centric Computing
CSC 379	Technical Writing
	Elective II



Course Code

Course Description

	•	
CSC 419	Advanced Java	6
	Programming	E
CSC 420	Data Warehousing and	
	Data Mining	
MGT 421	Principles of Management	
CSC 422	Project Work	
	Elective III	



Course Code Course Description

CSC 475 CSC 476	Advanced Database Internship
	Elective V
C3C 470	Elective IV



BACHELOR IN COMPUTER APPLICATION (BCA)

BCA is a technical degree of Tribhuvan University offering an integrated humanities and social science courses in the field of computer application. It is an eight semesters (four year) programme that prepares students to take the challenges in the area of software development, system and application development as well as management. It provides a comprehensive pedagogy in information technology and computer application. Nagarjuna College of Information Technology offers BCA program to the interested students with strategic plan, vision, mission and goals in computer science and information technology.

OBJECTIVES AND MISSION

The mission of BCA is to produce software developers, network engineers, system designers and system administrators. This programme is specially designed to equip graduates with computer skills in liberal arts.

SPECIFIC OBJECTIVES OF THE PROGRAM

- To produce advanced computer applications users and developers.
- To produce IT professionals proficient in the field of computer application and information technology.
- To provide functional knowledge regarding hardware system and software development.
- To prepare students able to handle problems related to computer systems and their applications.
- To prepare students for further higher studies in MCA, MIT, MBA, etc.

KEY FEATURES OF BCA

- BCA, the technology focused computer course, provides a strong foundation in computer system and its application.
- · Learning by both theory and practical application.
- Developing under the principles of computer system and application.
- Aims to produce top level IT professionals, who are ready enough to accept evergrowing challenges.
- Prepares IT professionals in computer system, computational techniques to develop effective information technology to solve real world problems.

ELIGIBILITY REQUIREMENTS

- The applicant applying for BCA program must have completed at least 12 years of schooling or equivalent from any university/board recognized by Tribhuvan University.
- The applicant must pass PCL or +2 or equivalent examination with at least 45% marks or 1.8 CGPA (with minimum D+ in each subject).
- The applicant should have passed the entrance examination conducted by T.U.



BCA SEMESTER COURSE CYCLE

The BCA course is designed to equip the graduates with the skills and attributes required to be effective and efficient in computer science and IT professionals. It has 126 credit hours. The total credit hour is distributed among various subjects as listed below.

Course Code

Course Description Computer Fundamentals

CACS 101 and Applications Society and Technology **CASO 102 CAEN 103** English I

CAMT 104 Mathematics I Diaital Loaic **CACS 105**

Course Code Course Description

CACS 151 C Programming **CAAC 152** Financial Accountina **CAEN 153** Enalish II

CAMT 154 Mathematic II **CACS 155**

Microprocessor and Computer Architecture



Course Code

Course Description

CACS 201 Data Structure and Algorithms

Probability and Statistics **CAST 202 CACS 203** System Analysis & Design

CACS 204 OOP in Java **CACS 205** Web Technology



SEMESTER

Course Code Course Description

CACS 251 Operating System **CACS 252** Numerical Methods **CACS 253** Software Engineering **CACS 254** Scripting Language

CACS 255 Database Management

System **CAPJ 256** Project I



Course Code

Course Description

CACS 301 MIS and e-Business **CACS 302 Dot Net Technology CACS 303** Computer Networking **CAMG 304** Introduction to Management CACS 305 Computer Graphics and **Animation**

SEMESTER

Course Code

Course Description

CACS 351 Mobile Programming CACS 352 Distributed System **CAEC 353 Applied Economics CACS 354** Advance Java Programming **CACS 355 Network Programming**

CAPJ 356 Project II



Course Code

CAIN 403

Course Description

CACS 401 Cyber Law and **Professional Ethics CSCS 402 Cloud Computing**

Internship Elective I Flective II

SEMESTER

Course Code Course Description

CAOR 451 Operations Research **CAPJ 452** Project III

Elective III Elective IV



BACHELOR OF INFORMATION MANAGEMENT (BIM)

The Bachelor of Information Management (BIM), a four years (eight semesters) programme affiliated to Tribhuvan University, is an integration of IT and management courses.

Nowadays, the entire organizational concept has been computerized and this has been a global phenomenon. Under such circumstances, no one can achieve perfection without the knowledge of information technology and proper management of information.

So, BIM is basically the application of Information Technology in managerial pursuits. It is a degree that really works to raise you up to the costliest and the best of IT managers with a well coordinated synthesis of computer applications as well as your managerial skills.



OBJECTIVES AND MISSION

The mission of the Bachelor of Information Management (BIM) program is to develop socially responsible, scientifically and logically able information technology professionals. This program is specially designed to equip graduates with highly specific skills and attributes required to efficient technocrats for tomorrow.

SPECIFIC OBJECTIVES OF THE PROGRAM

- To prepare IT professionals proficient in computers and computational techniques to develop effective information systems and solve real life problems in the organization milieu.
- To develop students' skill in software design methods and data management systems.
- To provide professional training to students by combining information technology with managerial skills.
- To prepare students to proceed on to post-graduate level of study in information management within and outside the country.

BIM PROSPECTS OF CAREER AND ADVANCE EDUCATION

The completion of BIM opens a wide horizon for the student with multiple future options for advance study and rewarded employment as well. At the place of employment, the BIM Graduate commands central role in information management of an organization, Being a software engineer with managerial insights, the student is expected to be providing crucial support to all functional areas as well as strategic management. The student, in particular, is expected to play a key role in MIS function of the organization. In addition, BIM graduates can find the diversity of jobs that exist for them including Software Engineers, System Analysts, Designers, Network Administrators, Database Administrators, Web Developers, Managers, IT Officers, Instructors, etc.

The graduates can apply for MBA program, MIS or other areas as well as MIT in Computer Science or Computer Information System.

SCHOLARSHIP SCHEMES

The college offers various scholarships in the form of tuition waiver to encourage and support talented, needy and deserving students with outstanding academic credentials, exceptional extra-curricular achievements in other fields by which they can uplift the fame of college.

- Free laptop to the TU topper in the University Board Examination.
- Attractive schemes for semester exam topper(s).
- Free scholarship for the needy and meritorious students.

PROFESSIONAL TRAININGS AND INTERNSHIPS

College provides different professional trainings such as android application development, system administration, networking and web development as per market demand to the students. College also facilitates the students to find internship during their 8th semester, and internship placement in different software companies and ISPs.

ELIGIBILITY REQUIREMENTS

- The applicant applying for BIM program must have completed at least 12 years of schooling or equivalent from any university/board recognized by Tribhuvan University.
- Applicant should have at least grade 'D+' (1.8 CGPA) in all the subjects of grade 11 and 12 or minimum score of second division marks in 10+2, PCL or equivalent in any discipline.
- Applicant should score minimum 40 marks in CMAT.

GRADUATION REQUIREMENTS

The BIM program is a four year programme that extends over eight semesters (four academic years). The BIM Degree is awarded on its successful completion; all candidates for the BIM degree must fulfill the following requirements.

- The successful completion of 126 credit hours as prescribed, with a minimum of passing grade in all papers and an aggregate CGPA of 3.00
- A minimum of grade "B" obtained in the Internship/Industrial Attachment Projects.
- Completion of course for the fulfillment of the requirements of the BIM program must occur within seven years from the time of registration.



Seminar on ICT for Staff Capacity Development and Office Automation



Public Speaking Session

BIM COURSE CYCLE

The BIM course is designed to equip the graduates with the skills and attributes required to be effective and efficient IT professionals. It has 126 credit hours. The total credit hour is distributed among various subjects as listed below.

Course Code

Basic Mathematics

MTH 204 **ENG 206** IT 231

English I Foundation of Information

Course Description

Technology

Foundation of Business MGT 231

Management IT 232 C Programming



Course Code Course Description

ACC 201 STT 201 IT 236

Financial Accountina **Business Statistics**

Microprocessor & Computer

Architecture IT 237 Web Technology I

IT 238 Data Structure & Algorithms



Course Code Course Description

MKT 201 IT 228 IT 242

Fundamentals of Marketing Artificial Intelligence Software Design & Development

IT 243 Programming with Python IT 244 Information Security



Course Code Course Description

Sociology for Business SOC 203 Management

MGT 205 Operations Management MGT 240 Strategic Management IT 247 E-Commerce and Internet

Marketing Elective I

SEMESTER

Course Code Course Description

ENG 203 IT 233

Business Communications Digital Logic

IT 234 Object Oriented Programming

with Java

IT 235 Discrete Structure MGT 241 Organizational Behavior & Human

Resource Management

SEMESTER

SEMESTER

Course Code Course Description

ACC 202 ECO 206

Cost and Management Accounting

Business Research Methods

Economics for Business IT 220 Database Management System

IT 239 Web Technology II

Business Data Communication & IT 240

Networking

IT 241 Operating System

Course Code Course Description

RCH 201 FIN 229

Fundamentals of Corporate Finance

MGT 236

Business Environment IT 245 **Business Information Systems** IT 246 IT Ethics and Cybersecurity

IT 352 Project



Course Code Course Description

IT Entrepreneurship and IT 248 Management

IT 249 **Business Intelligence** IT 250 Digital Economy IT 350 Internship Elective II

SEMESTER

BACHELOR OF BUSINESS MANAGEMENT (BBM)

BBM is a four year (eight semesters) programme of Tribhuvan University, Faculty of Management. This program is designed for aspiring business leaders and managers of the future. At the completion of BBM course, the students will be equipped with adequate skills and knowledge, self-confidence for successful management for changing and competitive national as well as global business environment.

OBJECTIVES AND MISSION

The mission of Bachelor of Business Management (BBM) program is to produce socially responsible, scientifically and logically able managerial manpower in the sectoral areas.

SPECIFIC OBJECTIVES OF THE PROGRAM

- To develop students' skill in creative thinking, decision making, leadership, communication and understanding of operations and change.
- To develop students' understanding of entrepreneurship and innovation and effective management of business
 operations in a dynamic business environment.
- To prepare students for professional life to work as business manager and entrepreneur.

BBM PROSPECTS OF CAREER AND ADVANCE EDUCATION

The completion of BBM opens a wide horizon for the students with multiple future options in the field of business management as business leaders and qualified managers. The BBM graduates command a vital role with effective knowledge abilities, self-confident and skills to contribute in successful and efficient information and management and transform themselves so as to lead changing and competitive contemporary world.

ELIGIBILITY REQUIREMENTS

The applicant applying for BBM program must have completed at least 12 years of schooling (1.8 CGPA) or equivalent from any university/board recognized by Tribhuvan University.

The applicant should pass CMAT examination taken by Faculty of Management (FOM).

GRADUATION REQUIREMENTS

The BBM program extends over four academic years (eight semesters). The BBM degree is awarded on its successful completion. The successful completion of 120 credit hours as prescribed and for the fulfillment of the requirements of BBM program must occur within seven years from the time of registration.



BBM COURSE CYCLE

MGT231

The BBM course is designed to equip the graduates with the skills and attributes required to be effective and efficient managers and business professionals. It has 120 credit hours. The total credit hour is distributed among various subjects as listed below.

Course Code ENG 201 ENG 201 MTH 201 ECO 203 Micro Economics for Business SOC 203 Sociology for Business Management Course Description SEMESTER O 1

Foundation of Business Management

Course Code
STT 201
Business Statistics
ACC 202
Cost & Management
Accounting
ENG 203
Business Communication
SOC 204
Nepalese History & Politics
FIN 206
Fundamentals of Finance

Course Code

MKT 201

MGT 205

Fundamentals of Marketing
Operations Management
FIN 208

IT 231

IT & Application
Focus Area Course I

A 208 Financial Markets & Services
231 IT & Application
Focus Area Course I

SEMESTER

IT 204

MGT 239

Business Ethics & Corporate
Governance
Elective Course I
Focus Area Course IV

SEMESTER

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Course Code **Course Description** ACC 201 Financial Accountina **ENG 202** English II **SEMESTER** Business Mathematics II MTH 202 ECO 204 Macro Economics for Business ECO 205 Seminar on Contemporary Issues of Macro Economics **MGT 232** Leadership & Organization Behavior **MGT 233** Seminar on Leadership & Organizational Behaviour

Course Code

RCH 201

PSY 202

ACC 204

FIN 207

MGT 234

RCH 201

Business Research Methods

Psychology

Taxation & Auditing

Financial Management

Legal Environment for

Business in Nepal

Course Code

IT 232

Database Management
System

MGT 236

Business Environment
Entrepreneurship & Business
Resource Mapping

MGT 238

Practicum on Business Plan
Focus Area Course II

Course Code

MGT 240

Strategic Management
Focus Area Course V
Elective Course II
Elective Course III
Project Report Writing/
Internship with Report

SEMESTER 08

SEMESTER

BACHELOR OF BUSINESS STUDIES (BBS)

BBS is a four year programme in annual/yearly system. This programme offers the students with the operation and management of organizations. NCIT has offered IT enabled BBS program with additional computer courses such as SPSS, Tally, Vat & Tax, etc. Besides, the college owns favorable environment with dedicated facilities and IT experts to equip the BBS students with managerial skills and information technology. On the completion of BBS, students shall join MBS, MBA, MBM, CA and other professional courses of higher studies.

OBJECTIVES AND MISSION

The mission of NCIT is to provide favourable environment, opportunities and experience that enable individuals to prosper in the field of management and information technology. The objective of BBS course is to prepare the students as competent managers for any organization.

SPECIFIC OBJECTIVES OF THE PROGRAM

- To equip the students with conceptual knowledge of business and administration to develop general management perspectives in them.
- To develop the necessary attitudes, abilities and practical skills in students to constitute a foundation for their growth as competent and responsible business managers.
- To encourage entrepreneurial capabilities in students to make them effective change agents in wider societies.
- To develop required foundation for higher studies in management courses.

ELIGIBILITY REQUIREMENTS

- The applicants applying for BBS must have completed PCL/+2 in management or an equivalent course recognized by Tribhuvan University.
- The applicants must have studied mathematics or economics as full paper at +2 programme.
- The applicants must have scored at least D+ in each subject in +2 level.



Practical Session: Robotic Car Demonstration Team

BBS COURSE CYCLE

The BBS course is designed in annual pattern to equip the graduates with the skills and attributes required to be effective and efficient managers and business professionals. It comprises four separate and distinct course components as listed below.



INDUSTRIAL ATTACHMENT PROJECT

Industrial Attachment is the most essential and crucial factor involved with the success of BIM, BBM, BBS, B.Sc. CSIT and BCA. It should be efficiently carried out through our "Placement Division". The students are required to take up this project at the last semester or the final year with various well known industries and organizations. One strong point about NCIT is that it has signed an MOU with Microsoft Innovation Center, Nepal to help students grow up with the changes in IT.

Similarly, NCIT has signed MOU with software development companies like BentRay Tech, SoftNET, Skill Lab and other prominent business houses to place the students as intern to sharpen their skills.



College has well maintained Computer Center for the students. Each student will get a single computer to work in a computer lab while doing practical and every student are encouraged to use computer for email, Internet and other purposes during leisure time. College is fully Wi-Fi enabled and students can access high speed Internet.





LIBRARY FACILITIES

To bring better output, the College has provided the good facility of books in library. More than 5000 textbooks and reference books are there in library. All daily newspapers, IT and management magazines are available in the library. Students can borrow books from library in each semester.





College not only focuses on academic activities but also on sports and extra curricular activities. Students are always encouraged to take part in most indoor and outdoor sports events. College has spacious play ground with futsal, basketball and badminton courts.





Medal and Certificate Distribution



Sports Meet



Medal and Certificate Distribution



Group Discussion



Collaborative Study



Workshop on IT





NAGARJUNA COLLEGE of Information Technology

Shankhamul-09 (Near Shankha Park), Lalitpur, Nepal Phone: +977-1-5268890, 5268894 Email: ncitcollege@hotmail.com, info@nagarjunacollege.edu.np Website: www.nagarjunacollege.edu.np