



# Bachelor of COMPUTER SCIENCE (HONS)

**WORLD #350**

Computer Science &  
Information Systems



# BCS

*Bachelor of Computer Science (Hons) with*  
**MOBILE COMPUTING**

*Bachelor of Computer Science (Hons) with*  
**DATA SCIENCE**

*Bachelor of Computer Science (Hons) with*  
**CYBER SECURITY**

*Bachelor of Computer Science (Hons) with*  
**ARTIFICIAL INTELLIGENCE**



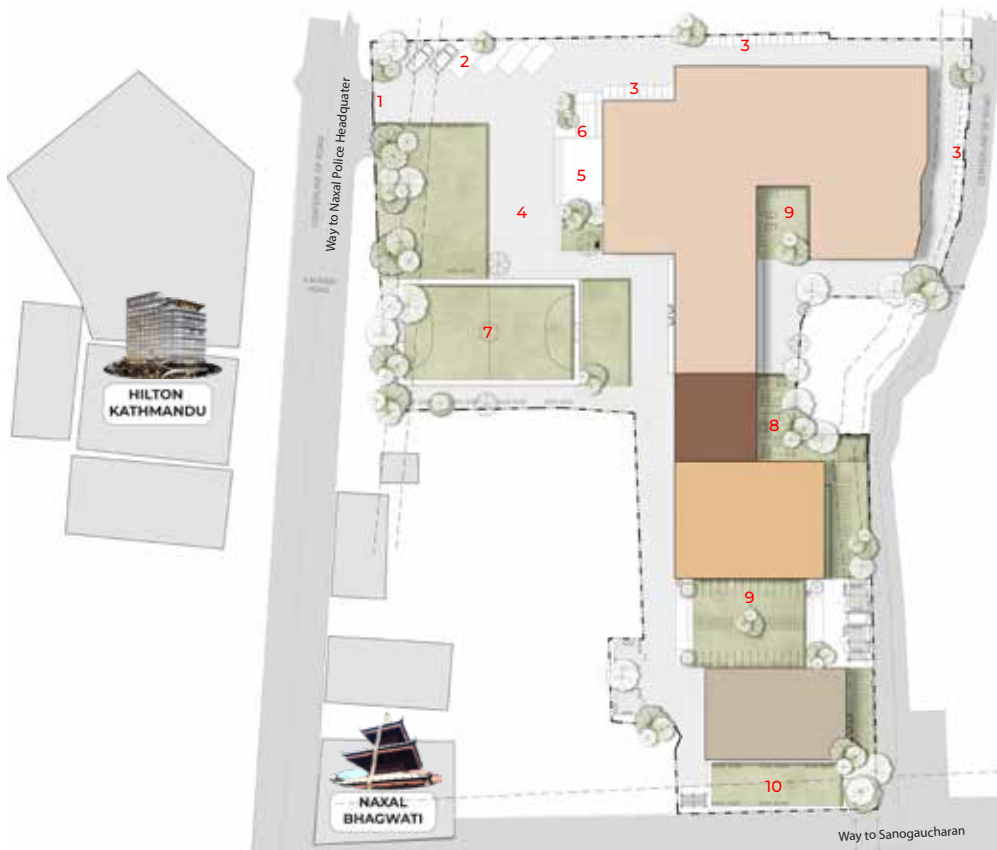
# WHO WE ARE

IIMS (Institute of International Management Science), in 2010, was established with the intention of providing Nepalese students with industry relevant education helping graduates to stand out in this highly competitive global marketplace. We instill in our students a global perspective and by offering globally ranked undergraduate & graduate programs from highly ranked International collaborations. Currently, we offer degree programme in Computer Science, Hospitality Management & Business Administration. SO far, 3500+ students have graduated from IIMS College and is a strong testament to its evolution as the preferred college for study choices in Nepal. With time passing by, the IIMS bubble of alumni, faculty and industry partners have also multiplied. We provided state of the art infrastructure, deploy industry experts as faculty members and has been able to live up to the expectation of recruiters, which further makes us an ideal place to study. We take you to your final destination of bright career through holistic development of attitude, skill and knowledge. IIMS invites you to join its journey in educating the Nepalese youth and transforming them into professionals who are to be the leaders of tomorrow's world.



THE ARTIST'S IMPRESSION  
OF IIMS COLLEGE **FROM 2025**

# IIMS FROM 2025



1. Entrance
2. Parking ( 4-Wheeler )
3. Parking ( 2-Wheeler )
4. Plaza
5. Front Porch
6. Ramp
7. Futsal
8. Outdoor Seatings
9. Courtyard
10. Garden

- IT & Management Block
- Cafeteria
- Administration Block
- Hospitality Block

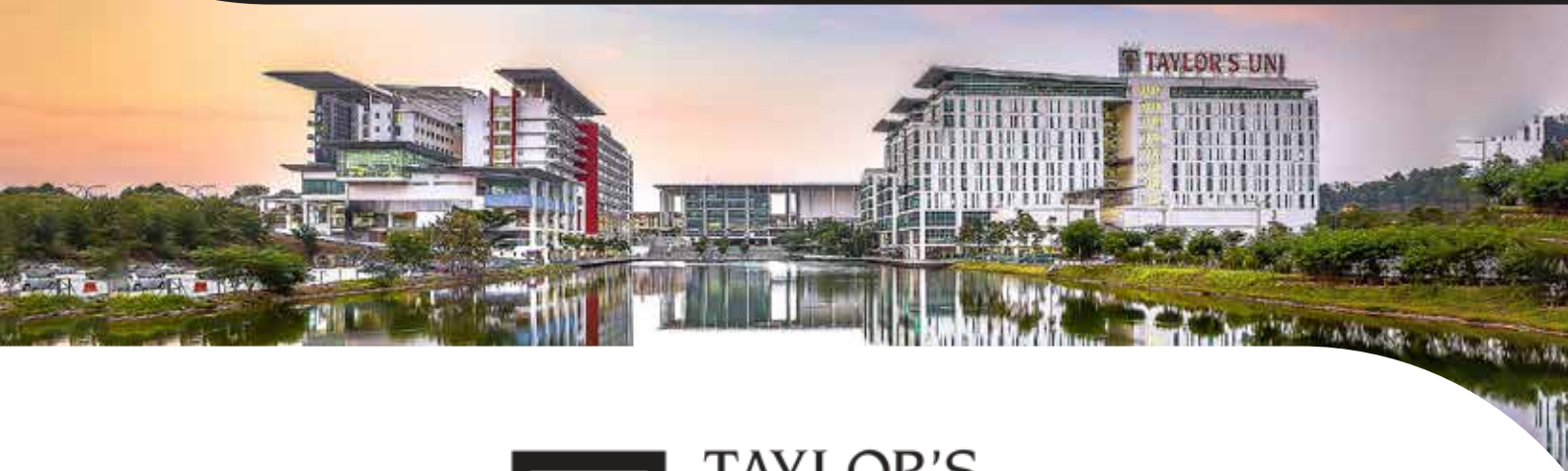
## MISSION

To provide high-quality education and training that support student goals, a skilled workforce, and the economic vitality of our communities.

## VISION

A model of innovation and distinction in management and technical education, recognized as an outstanding gateway to rewarding careers.





**TAYLOR'S  
UNIVERSITY**  
Wisdom • Integrity • Excellence

## **RISE WITH THE BEST AND GRADUATE IN DEMAND**

Since its inception in 1969, Taylor's has continuously provided excellent services for its students in terms of diverse study options, relevant curriculum and teaching methods, ongoing partnerships with leading universities worldwide, strong industry linkages, up-to-date facilities and well-equipped campuses.

Taylor's University nurtures its students in the three aspects of intelligence: intellect, practical wisdom, and craft through its Taylor'sphere ecosystem of flexible curriculum, innovative pedagogy, multidisciplinary projects, impact-based research, as well as networks with peers and alumni.

# **ACHIEVEMENTS**

**OUR AWARDS VALIDATE OUR WORLD-CLASS GRADUATES, STANDARDS & FACILITIES**

WORLD  
**TOP 1%**

UNIVERSITIES  
#251



2025

**TOP 50**

IN ASIA



ASIA 2024

**NO. 1**

PRIVATE UNIVERSITY  
IN SOUTHEAST ASIA  
5 YEARS IN A ROW



2025

WORLD  
**TOP 20**

FOR GRADUATE  
EMPLOYABILITY RATE



GRADUATE EMPLOYABILITY RANKINGS 2022

# GLOBALLY RANKED SUBJECTS

## TOP 20

#19  
Hospitality & Leisure  
Management

## TOP 100

#51-70  
Data Science & AI

#51-100  
Art & Design

## TOP 250

#151-200  
Social Sciences & Management  
Economics & Econometrics  
Sociology

#201-250  
Communication & Media Studies  
Pharmacy & Pharmacology  
Arts & Humanities

## TOP 350

#301-350  
Computer Science &  
Information Systems

## TOP 50

#21-50  
Marketing

## TOP 150

#101-150  
Accounting & Finance

Architecture &  
Built Environment

Business &  
Management Studies

## TOP 500

#401-450  
Electrical & Electronic  
Engineering

#451-500  
Medicine

Engineering  
& Technology

\*Based on the QS World University Rankings by Subject 2024

SN	2025	INSTITUTION
1	60	Universiti Malaya (UM)
2	138	Universiti Kebangsaan Malaysia (UKM)
3	146	Universiti Sains Malaysia (USM)
4	148	Universiti Putra Malaysia (UPM)
5	181	Universiti Teknologi Malaysia
6	251	Taylor's University
7	265	UCSI University
8	269	Universiti Teknologi PETRONAS (UTP)

QS WORLD  
RANKING  
UNIVERSITY  
MALAYSIA 2025

Source : <https://www.topuniversities.com/>


AWARDS &  
RECOGNITION  
We have appetite for awards



# The future of COMPUTER SCIENCE

At Taylor's University, we are constantly keeping ahead to ensure our students graduate future-ready and future-proof. This 4th Industrial Revolution (4IR) will change the way business is done. The revolution is characterized by a range of new technologies that are fusing the physical, digital and biological worlds, impacting all disciplines, economies and industries, and will challenge the status quo of education and its graduates.


Like most progressive fields of studies, computing and IT is fueling the speed of technological acceleration. Here are some advancements that are being discussed, anticipate and adopted globally :



**3 KEY Pillars of BLOCKCHAIN TECHNOLOGY**


- > Decentralisation
- > Transparency
- > Immutability

A set of immutable data records, managed via neutral clusters of computers.




The ability of computers that can simulate **HUMAN-LIKE BEHAVIOURS, INSTINCTS, and to FORMULATE SOLUTIONS BASED ON EXPERIENCES.**

**AI** - enabled user interfaces and process automation will replace 1/3 of today's screen-based apps.




- > **DIGITAL SKILLS**
- > **ANALYTICAL ABILITIES**
- > **CONTINUOUS LEARNING CAPABILITIES**

With AI technology, traditional and manual skills would be in excess in the market. At the ever-changing work landscape, employers seek staff equipped with **HIGHER COGNITIVE CAPABILITIES** in order to help transform their businesses.



**CLOUD AND EDGE COMPUTING**

Provide businesses **HIGHER COMPUTING POWER** to analyse crucial data while reducing on-premise hardware required for network connection.



**KEY PROPONENT OF THE 4<sup>TH</sup> INDUSTRIAL REVOLUTION**

- > Faster speeds
- > Faster connections
- > Faster cloud access

We continuously focus to research what's ahead to ensure we have the capacity, skills and knowledge to equip our students with unconventional teaching and learning methods.



Why

# COMPUTER SCIENCE @IIMS

*Here is our Edge and your Advantage*

## **TAYLOR'S CURRICULUM FRAMEWORK (TCF)**

IIMS follows the first-of-its-kind curriculum prescribed by partner University that allows you to mix & match modules to customize your degree.

## **MEETING INDUSTRY STANDARDS**

IIMS, besides University courses, offers a range of career-focused industry-led trainings where graduates continue to meet industry standards filling out the talent pool in ICT.

## **DRIVING INNOVATION THROUGH TECHNOLOGY**

We aim to provide students with ample opportunities to influence the future of the modern world pioneering the frontiers of Computing and Information Technology with a positive impact on society.

## **INDUSTRY RELEVANT CURRICULUM**

Our industry relevant curriculum is a result of a conducive environment and multiple strong collaborations including, close ties to the industry, professional bodies, government agencies and academia.

## **PROGRAMMES OFFERED ARE COMPREHENSIVE**

Our programmes offered are comprehensive in practical content, using relevant and latest learning technologies. We ensure that you are future-ready, as we enter the 4IR.

## **SEED FUNDING**

IIMS students with unique and innovative idea receives start-up fund to transform their idea into reality.

## **ACCELERATORS & INCUBATORS**

IIMS students through in-house accelerator & incubation program can pitch their ideas to get funding and mentorship opportunities.

## **INTERNSHIP & PLACEMENTS**

IIMS offers unique experience for students to practically learn and sharpen their theoretical skills through short-term internships and job placement opportunities.

## **INTERNATIONAL TOURS**

IIMS student gets to participate in student exchange programs. Students can choose to study one semester at University with no added cost.

# REAL WORLD EXPERIENCE

At IIMS, experience is at the heart of the learning process. Our carefully-tailored approach combines a strong foundation of theories, as well as avenues to apply these theories into practical settings to maximize learning. In order to achieve this, we employ a variety of teaching and learning strategies, where students are exposed to real-life scenarios and industry-relevant experiences that enhance student engagement, both inside and outside the classroom.

## BIZHUB

IIMS Bizhub is an academic incubation space to cultivate distinct academic eco-systems created to address the needs of aspiring entrepreneurs by helping them realize their concept and transform it into reality. This dedicated entrepreneurial space is a go-to place for the students across multiple programs to unite, collaborate and work with other fellow entrepreneurial minds. The idea of this project is to assist budding entrepreneurs in their start-up journey and beyond, through training workshops, mentorship, shared working space, seed funding & investment opportunities to remain afloat.



## INDUSTRY IMMERSION PROGRAMME

The industry immersion programme is a 10-week course designed to help maximize your experience and provide you with the guidance, skills and knowledge to succeed in the ever-evolving business world.

Split into two stages, you'll first go through a workshop where you'll be exposed to personal mastery, team dynamics, and project management to prepare you for the full business immersion experience.

Then you'll enter the field to work with real clients on actual business projects. This is where you'll take the brief, conduct research, implement a strategy, test, execute and finally end with a final presentation of learnings.

## INDUSTRY VISITS

Our students have the opportunity to visit companies and gain first-hand insight into the real world of business providing them a platform to communicate and network with professional organizations and its employees.



## NATIONAL & INTERNATIONAL FIELD TRIPS

Students are exposed to international business practices in a different cultural setting whilst exchanging views, experience, and network with students of foreign universities and communities. This is to drive international-mindedness for all our students as they step into the 4th Industrial Revolution.



## STUDENT MOBILITY PROGRAMME

This is a unique opportunity for students to combine an overseas travel and cultural experience, focusing on various aspects of a region or areas of studies. This promotes international-mindedness in our students.



## KEYNOTE SPEAKERS SERIES, FORUMS, WORKSHOPS & CONFERENCES

These platforms link our students with industry leaders, through insightful talks and lectures. Students gain insights on global developments and issues that may impact their future practices.



# COMMUNITIES

# & CLUBS

## GDS

### GROWTH AND DEVELOPMENT SERVICES

IIMS Growth and Development Services (GDS) is a cell conceptualized to provide services and facilities to students beyond academics. In a competitive world such as today, be it professional or personal, pure academics would not suffice for individuals to become competent and industry-ready. The GDS cell through its services like events and activities (Dashain Carnival & Nepal Food Festival, Holi Blast, Khel Utsav), student club inception and support, business incubation (Bizhub), soft skills enhancement clubs and activities (Toastmasters, CV and Cover Letter writing, Interview Facing and many more), industry-specific guest lectures, panel discussions and others ensure students learn every integrities about the corporate world in the college life itself such that IIMS graduates are class apart from others in the industry.



### THE HOSPITALITY HUB

The Hospitality Hub is a new community for students passionate about service, travel, hospitality, and creating exceptional experiences. This hub offers a unique blend of learning and development opportunities through workshops, practical exposure, events, and industry discussions. Students can gain practical experience, elevate hospitality expertise, and build valuable connections with peers, faculty, and industry professionals.

## TEDx IIMS

TEDxIIMS is an esteemed TEDx event organized by IIMS College in Kathmandu, Nepal. Rooted in the belief that ideas have the power to transform lives and societies, TEDxIIMS aims to provide a platform where innovative ideas and inspiring stories can be shared. TEDxIIMS is committed to fostering a culture of curiosity, creativity, and collaboration among students, educators, and professionals in Nepal. The event aims to bring together thought leaders and change-makers from various disciplines to explore diverse topics such as technology, emotional intelligence, customer service, and social impact.

## MEDIA CLUB

IIMS Media Club is a vibrant and dynamic group dedicated to fostering creativity, innovation, and collaboration among students interested in media and communication. The club offers a platform for students to explore various aspects of media, including journalism, photography, videography, graphic design, and social media management. Through workshops, events, and hands-on projects, members gain practical experience and develop essential skills that prepare them for careers in the media industry. IIMS Media Club also plays a crucial role in documenting and promoting campus activities, ensuring that the vibrant life at IIMS is effectively communicated to a broader audience.



### IIMS SPORTS CLUB

IIMS Sports Club is a student club formed to create a community of like-minded individuals who share a passion for sports and athleticism. It is a platform created to encourage and motivate students to be involved in various sports activities at both inter and intra-college levels.

Overall, the club aims to uplift the sports enthusiasts and players and grow the sportsmanship at IIMS College.



### IIMS TOASTMASTERS CLUB

Club No.: 28675531, Area 1, Division D, District 41

Empowering students since July 2022, the IIMS Toastmasters Club is a club dedicated to the personal and professional growth of each member. In a friendly, fun, and supportive environment, members gather weekly to enhance public speaking, build confidence, and take on leadership roles. It offers valuable experience by allowing students to develop in-demand communication, leadership, and networking skills. Part of a global network, the club offers opportunities to connect with diverse educational, corporate, and community clubs.

Headquartered in Colorado, USA, Toastmasters International has been transforming individuals into confident speakers, communicators, and leaders. Since 1924, it has built a huge network with over 270,000 members in more than 14200 clubs across 148 countries.



IIMS IT Club is a dynamic community dedicated to exploring the ever-evolving world of information technology. The club provides a platform for students to enhance their technical skills and knowledge through hands-on projects, workshops, and collaborative events. Members have the opportunity to delve into various IT domains, including software development, cybersecurity, networking, data analysis, and emerging technologies like AI and blockchain. IIMS IT Club aims to foster innovation and problem-solving, preparing students for successful careers in the tech industry while also contributing to the technological advancement of the IIMS community.

# IIMS HACKATHON



## IIMS HACKATHON

IIMS Hackathon: Deep Learning Codefest, hosted on July 7th, 2024 is a 10-hour continuous hackathon designed to bring together student teams from the Bachelor of Computer Science faculty to tackle real-world challenges using deep learning techniques. Each student team comprises senior students from the March & August 2022 Intake and juniors and freshers from the recent intakes. This encourages knowledge sharing and fosters skill building as they come together to take on the coding challenge. Student teams were evaluated and awarded in four categories i.e. Best Model, Best Team Spirit, Outstanding Presentation and Innovative Solution.



# IIMS MUSIC AS MEDICINE

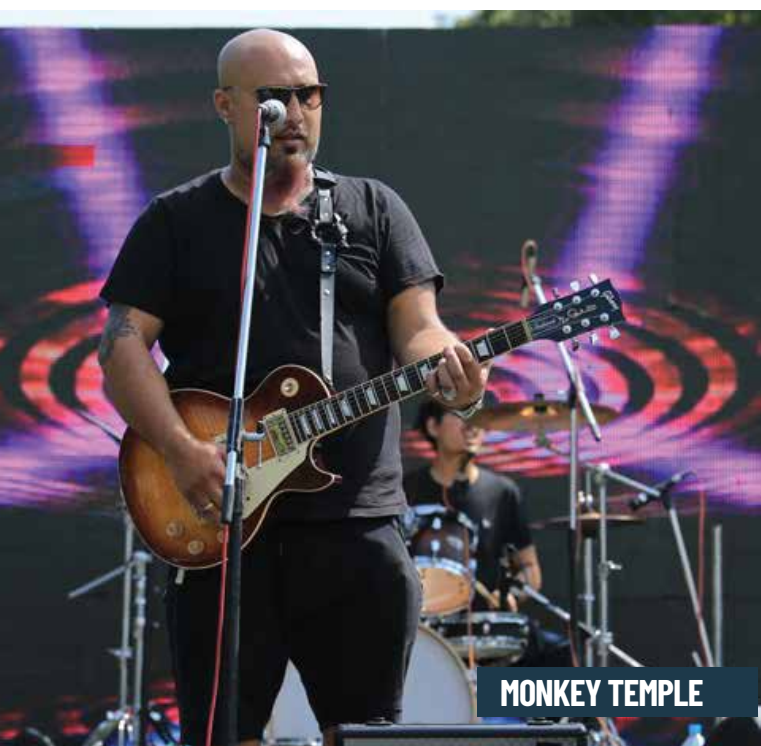
Music is a language understood by all living beings. It even has healing capabilities. A host of celebrities have performed during various events at IIMS and mesmerized the IIMS family with their soothing performances.



SAMIR SHRESTHA



COBWEB



MONKEY TEMPLE



KARMA BAND



DEEPAK BAJRACHARYA & THE RHYTHM



SUJATA THAPA



ALEX NEPALI



MUKTI & REVIVAL



KENGAL MEHAR SHRESTHA



SABIN RAI & THE PHARAOH



KUTUMBA



PARIWARTAN BAND



VEK



ABHAVA AND THE STEAM ENGINES



PRAJINA FT. REGAN



SUSHANT GHIMIRE



# WORLD-CLASS STANDARDS, FACILITIES AND ENVIRONMENT

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01

Strong Local & International Industry Linkages

02

Well-Equipped Facilities on-Campus

03

Prioritised Research & Innovation

04

Well-Balanced Curriculum to prepare you for the future

05

Customisable Degrees with the Taylor's Curriculum Framework

As your vested partner throughout your education journey, future-proofing you is our priority. We continuously provide our students with more than just academics, but also life skills to be business leaders and successful entrepreneur of the future. To do that, we ensure we upkeep our standards and facilities, nothing less than world-class.



**WORLD-CLASS STANDARDS,  
FACILITIES & ENVIRONMENT**



# BECOME FUTURE-PROOF

( International Degree with Local Industry Alliance )

## STUDENT TECHNOPRENEURSHIP DEVELOPMENT

A new initiative by IIMS starting the 2021 session, to develop students technical skills alongside entrepreneurial skills. We call that technopreneurship, which will be delivered under supplement training requiring students to work on the project of their interest upon completion of the training courses. Much of the delivery will be based on workshops focusing on how to materialize the idea. Students are usually grouped together to form start-up companies. You will be taught to create jobs instead of seeking jobs.



## INDUSTRY-DRIVEN FINAL YEAR PROJECTS

All students are mandatorily required to complete their major final year project. Though students are allowed to continue with the project topics of their interest, IIMS also allows students to continue with the topics proposed by our industry partners.

Certainly this is like taking a hike in a rocky desert while you can drive. Hiking being the later part. But definitely will be rewarding as students will be exposed to current industry practices, challenges faced by industry partners and understand the real complexity aiding towards better learnings.

- Personal and group travel planner
- Automated question generator with applied Bloom's Taxonomy
- Course registration tools with Python
- Realizing Near Field Communications
- The automated storyteller
- Kazoku, a family budget planner

## INDUSTRY REGULATED TRAININGS

Training at IIMS is unlike anywhere else, We don't teach tech but nurture you how to use one. IIMS hosts yearly training for all interested students. Unlike traditional sessions where the teacher teaches/explains codes, at IIMS, the training is largely shaped, influenced and delivered by the industry partners so as to meet their needs and industry demands so as to equip students not only with technology know-how but also the working dynamics. Involved trainers closely monitor students progress and skills honed assisting towards the head-hunt process. In a nutshell all training at IIMS is industry-driven and delivered leading to direct placements.



### TRAINING

### TRAINED

• Python for Everybody	543
• Code with Node.js	246
• Restful API with Laravel	256
• UI UX Training	578
• Software Quality Assurance & Testing	560
• Front-End development with React.js	270
• Backend development with Node.js	270
• Web Development in Laravel	280
• Developing Mobile App with Flutter	550

\* Amazing fact is our students were finding placement even during a pandemic.



# INDUSTRIAL ATTACHMENT

You will undergo a 6-month industrial training for the last 2 semesters of their programme. This will provide you with the necessary industrial experience and the opportunity to explore your interest and apply the knowledge acquired from programme. Many of our industrial attachment partners are top ICT companies. A good percentage our students are offered jobs in the same company after their industrial attachment.

## COMPANIES THAT HAVE HIRED OUR GRADUATES

- Agile IT Solutions
  - Amnil Technology
  - Aryatara Investment & Security
  - ContentIO Lab
  - Darshan Tech
  - Dry Ice Solution
  - Braindigit
  - E.K Solutions
  - EKTA IT SERVICES
  - E-Prabidhi Pvt Ltd
  - Fantastic Story, Inc
  - F1 Soft
  - Fusemachines Nepal Pvt Ltd
  - Gada Technology
  - Green Village Education Foundation
  - Fuse Machines
  - Grow By Data
  - HAMS Hospital
  - Assurance Inc
  - Ayon NGO
  - Bajra Technology
  - Deerwalk Inc
  - Huawei Cloud
  - IMS Software Pvt Ltd
  - Innovative Desk Nepal
  - Ison Group
  - Isuzu Nepal
  - iTech Office Support
  - JAVRA Software
  - Huawei Cloud
  - KG IT Solutions
  - KTM Rush
  - KUDDO Nepal
  - Leapfrog Technology Inc
  - LIS Nepal Pvt Ltd (Yomari)
  - Max Connect Pvt. Ltd
  - Mercantile Communications
  - Mirchaya Nagarpalika
  - Bits Beat IT solutions
  - BW Event Tech, USA
  - Cloud Factory
  - Connecting Dots
  - Mountain Television
  - Nepal Payment
  - Nima Publication
  - Professional Computer System P. Ltd (PCS)
  - Pycus Holdings
  - Nima Publications
  - Smart Choice Technology
  - Softbenz Infosys
  - Subha Shingal Intl Pvt Ltd
  - Swift Technology
  - Techzone Nepal
  - UG Bazaar
  - Vianet Communications
  - VARICON Systems
- ... and many more

## JOB POSITIONS THAT OUR GRADUATES ARE AT

- Associate Software Engineer
  - Associate Team Leader
  - Backend Developer
  - Business Developer Manager
  - Business Developer Assistant
  - Computer Operator
  - Content Writer
  - Data Analyst
  - Digital Marketing
  - Dot Net Developer
  - Frontend Developer
  - Graphic Designer
  - IT Manager
  - IT Officer
  - Jr. Programmer
  - Machine Learning Associate
  - Machine Learning Engineer
  - AI Researcher
  - Mobile Application Developer
  - Network & IT Support
  - Project Manager
  - Python Developer
  - QA Engineer (Requirement)
  - Quality Assurance Associate
  - React Developer
  - Sales Coordinator
  - Senior Software Engineer
  - Senior Software Technologist
  - Software Developer
  - Software Engineer
  - Software Analyst
  - Software Test Engineer (TE)
  - Teaching
  - Test Automation Associate
  - Team Lead
  - Technical Assistant
  - UI UX Designer
- ... and many more



## INDUSTRY ADVISORY PANEL (IAP)

We work closely with the IAP to ensure the programs offered are relevant to current IT industry practices and requirements. The IAP provide input in developing and offering new curriculum to meet the current and future market demands.

## INDUSTRY PARTNERSHIPS

In order to keep abreast with global trends and bridge the gap between academia and the industry, we have developed a web of relationships with international technology companies and entrepreneurs. These pillars of the Information and Communications Technology (ICT) community provide IIMS's Department of Computing & IT with valuable insight into the industry and shed light on the fundamental shifts in IT consumption and consumer behavior.

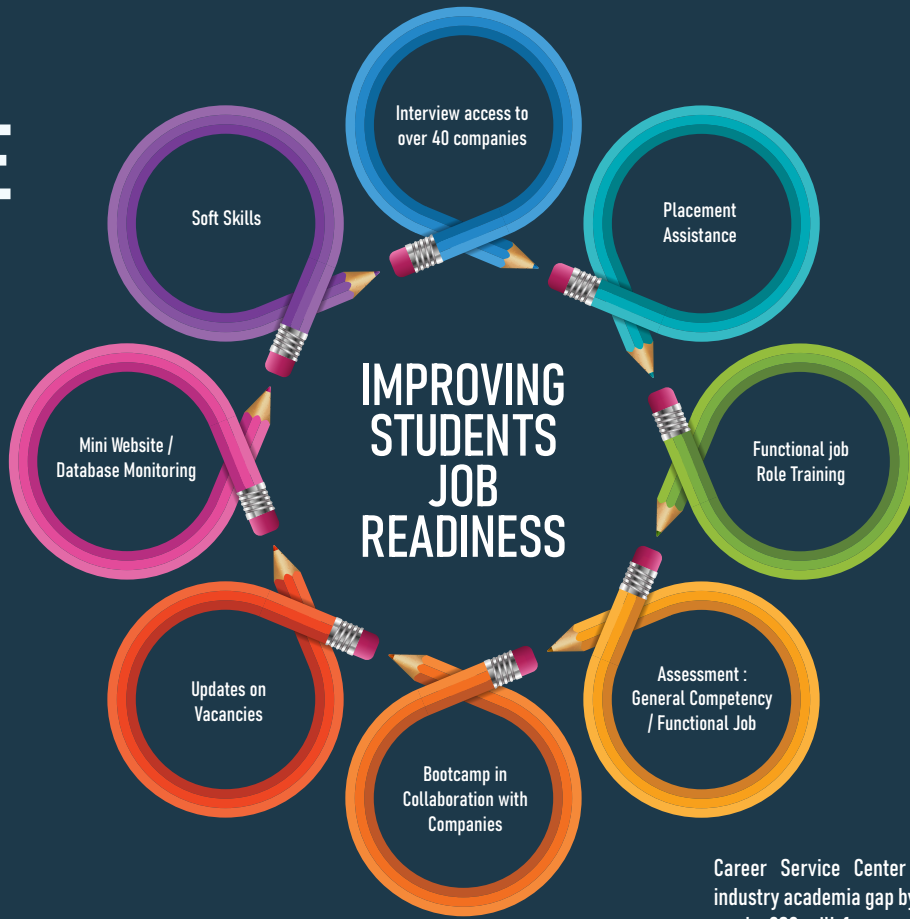
**These strategic alliances facilitate dynamic knowledge exchange, enabling you to reap the rewards of these collaborations. In turn, IIMS's Department of Computing & IT serves as an ideation lab and a gateway to innovation, talent and research activities for the industry.**

Soft skills are embedded throughout our curriculum and instilled in our students through project-based learning, internship programs, field trips, as well as events and activities that stimulate the students to get involved in activities outside their chosen field and develop out-of-the-box thinking. These activities also provide you with industry exposure and enable you to learn more about the application of technology in the real world. Our holistic approach has successfully produced not just ICT graduates, but technopreneurs who are geared to meet and tackle the challenges of the future.

## COMPANIES WE WORK CLOSELY WITH



# CAREER SERVICE CENTRE (CSC)



Career Service Center (CSC) will work to reduce industry academia gap by skilling our students to be job ready. CSC will focus on soft skills as well functional role skills in joint partnership with various esteemed corporations in Nepal. The objective is to drastically improve the success of students in finding jobs as well as supporting the corporations with skilled and competent graduating talents. Career Service Center will include activities like industry interaction, prospective candidate engagement, job and skill mapping of each individual and employability courses (functional job role training and soft skills).



**50+**  
COMPANIES

**800+**  
IIMS ATTENDEES

**100+**  
PLACEMENTS



# AWARDS AND SCHOLARSHIPS

IIMS scholarships are available to new students enrolled into any of the offered programs. Students can receive one award provided they meet the scholarship conditions. Also awards are distributed as tuition fee credits.

## » IIMS Merit Scholarship

Awarded to 10% of enrolled students based on their previous academic performance and a scholarship test.

## » IIMS Community Scholarship

Awarded to 4 enrolled students based on financial pre-conditions and management reviews.

## » IIMS Talent Scholarship

Awarded to 4 enrolled students based on acquired talent pre-conditions other than the sports and management reviews.

## » IIMS Sports Scholarship

Awarded to 4 enrolled students based on achieved sports accolade pre-conditions and management reviews.

## » IIMS Excellence Scholarship

Awarded yearly to 2 enrolled students with consistent overall academic performance.



**Bikram Kc**  
IIMS Excellence Scholarship



**Serena Shakya**  
IIMS Excellence Scholarship



**Subash Rai**  
IIMS Excellence Scholarship



**Anushka Sharma**  
IIMS Excellence Scholarship



**Ankit Pokharel**  
IIMS Excellence Scholarship



**Ronisha Dulal**  
IIMS Excellence Scholarship

# OVERSEAS TRANSFER OPTIONS

Taylor's curriculum standard is internationally recognized. University offers the option of completing your Computer Science program with one of established partner universities in the United Kingdom and Australia.



## AUSTRALIA (AUS)

### THE UNIVERSITY OF QUEENSLAND

- Bachelor of Information Technology
- Bachelor of Computer Science

2 + 1.5 years  
2 + 1.5 years

### QUEENSLAND UNIVERSITY OF TECHNOLOGY

- Bachelor of Information Technology (Computer Science)

1 + 2 years

### UNIVERSITY OF SOUTH AUSTRALIA

- Bachelor of Information Technology (Computer Science)

1 + 2 years

- Bachelor of Information Technology (Software Development)

1 + 2 years

- Bachelor of Software Engineering (Hons)

1 + 2 years

### UNIVERSITY OF TECHNOLOGY SYDNEY

- Bachelor of Information Technology (Enterprise Systems Development)
- Bachelor of Information Technology (Data Analytics)
- Bachelor of Information Technology (Interaction Design)

2 + 1.5 years  
2 + 1.5 years  
2 + 1.5 years

## UNITED KINGDOM (UK)

### UNIVERSITY OF ESSEX

- Bachelor of Science Computer Games
- Bachelor of Science Computer Science
- Bachelor of Engineering Computer Networks
- Bachelor of Engineering Robotic Engineering
- Bachelor of Engineering Mechatronic Systems
- Bachelor of Engineering Computers with Electronics
- Bachelor of Engineering Computer Systems Engineering

1 + 2 years, 2 + 1 years  
1 + 2 years, 2 + 1 years  
1 + 2 years, 2 + 1 years  
1 + 2 years, 2 + 1 years  
1 + 2 years, 2 + 1 years  
1 + 2 years, 2 + 1 years  
1 + 2 years, 2 + 1 years

### UNIVERSITY OF LEEDS

- BSc Computer Science
- BSc Computer Science with Artificial Intelligence

1 + 2 years  
1 + 2 years

- MEng Computer Science
- MEng Computer Science with Artificial Intelligence
- MEng Computer Science with High-Performance Graphics and Games Engineering

1 + 3 years  
1 + 3 years  
1 + 3 years

### UNIVERSITY OF BIRMINGHAM

- BSc Computer Science
- BSc Artificial Intelligence with Computer Science

1 + 2 years  
1 + 2 years

- MSci Computer Science
- MSci Artificial Intelligence with Computer Science

1 + 3 years  
1 + 3 years

### UNIVERSITY OF KENT

- BSc (Hons) Computing

1 + 2 years, 2 + 1 years

# Bachelor of COMPUTER SCIENCE ( HONS )

*Intake : January / September*

Bachelor of Computer Science (Hons) program is recognized as being of top quality by industry employers and graduate schools alike.

The curriculum has a common first year with four flexible specialization programmes students can choose from. You can choose your preferred major after the first year of study alongside minors and multiple electives. The curriculum is also specially designed for you to take multiple minor options more easily to fit your interest area.

## Program Highlights

- > 4 years degree program
- > Option to choose from 4 specializations alongside minors and multiple electives
- > Compatible to National and American/European education standards
- > Tri-semester based Intensive programmes followed by Internship/placement
- > Overseas exchange and international learning opportunities to enhance global outlook
- > Industry regulated technology workshops and other learning activities (e.g. AI, Machine Learning & Big Data, Python, R language, Web Design/Development, Hackathon).

## Program Highlights

- > Year 1: Broadening year
- > Year 2: Specialization Year
- > Year 3: Strengthening Year
- > Year 4: Project & Placement Year

Graduating students must complete an extensive final year project work alongside a compulsory Internship-placement.

Probably the best curriculum  
that prepares you for  
trending careers.

# COURSE ROADMAP

## PRIMARY CORE

### COMMON CORE

- > Discrete Structure
- > Computer Architecture & Organization
- > Object Oriented Programming
- > Database Systems
- > Operating System & Computer Networks
- > Software Engineering
- > Data Structures & Algorithm
- > Systems Fundamentals
- > Theory of Computation
- > Human Computer Interaction\*
- > Capstone/Industry Project-I\*
- > Capstone/Industry Project-II\*
- > Industrial Training

### SPECIALISATION: COMPULSORY MODULE

- > Compulsory Modules
- > Understanding Entrepreneurialism
- > Machine Learning & Parallel Computing
- > Advanced Programming
- > Professional Practices & Information Security\*

### Choose one of the options :

#### Option 1 : Data Science (Dual Award)

- Statistical Inference & Modeling
- Data Mining
- Data Science Principles
- Big Data Technologies

#### Option 2 : Cyber Security (Dual Award)

- Computer & Network Security
- Computer Crime & Digital Evidence
- Computer Intrusion Detection
- Wireless Networks & Security

#### Option 3 : Mobile Computing (Dual Award)

- Introduction to Mobile Computing
- Wireless Networks & Security
- Mobile Application Development
- Internet of Things

#### Option 4 : Artificial Intelligence (Dual Award)

- Computer Vision & Natural Language Processing
- Data Analytics & Machine Learning
- Cognitive Computing & Applications
- Big Data Technologies

## UNIVERSITY CORE

- > Civic or Cultural based Module
- > Life Skills for Success & Well-Being
- > Foreign Language
- > Millennials, Team Dynamics & Relationship Management
- > Social Innovation Project

## COMPLEMENTARY STUDIES

### Choose one of the below packages:

#### EXTENSION

##### Option 1 : Cyber Security, choose one of the extension package :

- Data Science
- Game Design
- Artificial Intelligence
- Mobile Computing
- Business intelligence & Analytics

##### Option 2 : Data Science, Choose one of the extension package :

- Mobile Computing
- Game Design
- Cyber Security
- Artificial Intelligence
- Internet Technologies

##### Option 3 : Mobile Computing, choose one of the extension package :

- Data Science
- Game Design
- Artificial Intelligence
- Cyber Security
- Business intelligence & Analytics

##### Option 4 : Artificial Intelligence, Choose one of the extension package :

- Cyber Security
- Business Intelligence & Analytics
- Mobile Computing
- Game Design
- Internet Technologies
- Data Science

OR

#### MINOR

##### Recommended Packages :

- Creative Media Design
- Accounting
- Entrepreneurship
- Broadcasting
- Management
- Finance
- Advertising
- International Business
- Marketing
- Biotechnology

Choose any Minor package\* offered by Taylor's University.  
Refer to the Flexible Study for the list of Minor packages.

OR

#### SECOND MAJOR

Choose any Minor package\* offered by Taylor's University.  
Refer to the Flexible Study for the list of Minor packages.

OR

#### FREE ELECTIVES

Choose any Minor package\* offered by Taylor's University.  
Refer to the Flexible Study for the list of Minor packages.

- Computer Application
- Contemporary Design Theories
- Data Mining
- Data Science Principles
- Database System
- Design Communication
- Design Principles
- Digital Photography & Imaging
- Programming
- Event Technology for Entertainment
- Human Computer Interaction
- Illustration and Visual Narrative
- Management Information System
- Managing Hospitality Business and Service Experience
- Mobile Application Development
- Introduction of Mobile Computing
- Object Oriented Programming
- Video and Sound Production
- Web Application Programming
- Web Development Technologies
- Wireless Networks and Security

# DATA SCIENCE



Data Science is a professional field that involves the methods, concepts and tools used to make sense out of data that is available in various forms through inquiry and analysis. It is essentially extracting knowledge from data.

Upon completion of this specialization, students should be able to upload and clean real-world data, make reliable statistical inferences from the cleaned data, use Machine Learning and statistical tools to learn models for data and visualize complex data. This would help students to expand their job prospects as a Data Scientist, Data Engineer, Data Analyst, Data Manager, Data Architect, Business Analyst and more.

## Course Modules :

- > Understanding Entrepreneurialism
- > Advanced Programming
- > Professional Practices & Information Security (Conventional)
- > Professional Practices and Information Security (WBL)

- > Statistical Inference and Modelling
- > Data Science Principles
- > Data Visualization
- > Data Mining
- > Big Data Technologies

**Careers :** Data Scientist, Data Engineer, Data Analyst, Data Manager, Data Architect, Business Analyst Machine Learning Engineer, Business Intelligence (BI) Developer and more...

# MOBILE COMPUTING



Mobile Computing a technical field that covers the design, development and evaluation of mobile applications using appropriate solutions that meet user requirements. This includes learning the technology that is used to perform a wide variety of tasks on devices that are portable. Portable devices include Smartphones, Tablets, Laptops, wearable devices, vehicles etc.

Upon completion of this specialization, students should be able to develop mobile apps applying algorithmic and programming concepts that are cross platform beyond Android and iOS. This would help students to pursue their personal passion of developing mobile apps or to expand their job prospects as a Mobile Apps Developer, Android Developer, Mobile Technical Lead/Architect, Mobile Solutions consultant, Hybrid Mobile Application developer, Mobile Software Architect and more.

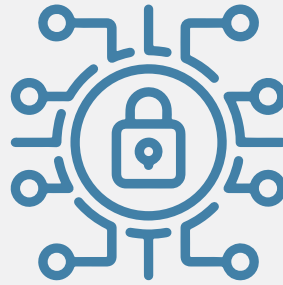
## Course Modules :

- > Understanding Entrepreneurialism
- > Machine Learning and Parallel Computing
- > Advanced Programming
- > Professional Practices & Information Security (Conventional)
- > Professional Practices and Information Security (WBL)

- > Introduction to Mobile Computing
- > Internet of Things
- > Wireless Network and Security
- > Mobile Application Development
- > Secured Software Systems (extension)

**Careers :** Mobile Apps Developer, Android Developer, Mobile Technical Lead/Architect, Mobile Solutions Consultant, Hybrid Mobile Application Developer, Mobile Software Architect and more...

# CYBER SECURITY



Cyber Security is a professional field that covers the fundamental concepts underlying the construction of secure systems that includes Information, Hardware and Software and Networks.

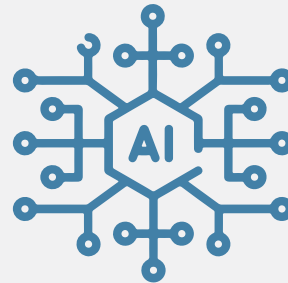
Upon completion of this specialization, students should be able to defend and/or secure computer-based systems from vulnerabilities and malicious attacks. This would help students to expand their job prospects as a Security Auditor, Security Manager, Security Solutions Specialist, Security Consultant, Security Architect, Information Security Officer, Incident Responder, Security Administrator, Penetration Tester, Vulnerability Assessor and more.

## Course Modules :

- > Understanding Entrepreneurialism
- > Machine Learning and Parallel Computing
- > Advanced Programming
- > Professional Practices & Information Security (Conventional)
- > Professional Practices and Information Security (WBL)
- > Computer and Network Security
- > Computer Intrusion Detection
- > Computer Crime and Digital Evidence
- > Secured Software Systems
- > Wireless Network and Security

**Careers :** Data Scientist, Data Engineer, Data Analyst, Data Manager, Data Architect, Business Analyst Machine Learning Engineer, Business Intelligence (BI) Developer and more...

# ARTIFICIAL INTELLIGENCE



Artificial Intelligence is a professional field that covers the fundamental concepts in knowledge representation, problem solving, natural language processing, computer vision, machine learning, neural networks and cognitive technology.

Upon completion of this specialization, students will have had hands-on interactions with several AI environments and applications, and should be able to build and deploy AI enabled applications. They will be able to apply for a range of technical, problem-solving jobs in this rapidly growing area. Companies and institutions are applying ML and AI (artificial intelligence) to a wide range of problems in business, finance, medicine, education, video games, engineering and other creative work, opening a range of opportunities that would help students to expand their job prospects as an AI & ML engineer, researcher and Analyst.

## Course Modules :

- > Understanding Entrepreneurialism
- > Machine Learning and Parallel Computing
- > Advanced Programming
- > Professional Practices & Information Security (Conventional)
- > Professional Practices and Information Security (WBL)
- > Big Data Technologies
- > Computer Vision & Natural Language Processing
- > Data Analytics and Machine Learning
- > Cognitive computing and applications

**Careers :** Mobile Apps Developer, Android Developer, Mobile Technical Lead/Architect, Mobile Solutions Consultant, Hybrid Mobile Application Developer, Mobile Software Architect and more...

# TAYLOR'S SPHERE

Our well-balanced learning ecosystem and community, supported by staff, industry partners, and alumni. Within this atmosphere, we intentionally prepare you to graduate in demand by inspiring you with 3 intelligences : **Intellect, Craft, and Practical Wisdom.**

## YOUR FIRST YEAR

- Customize your degree with mix-and-match modules, electives, minors, and other components.
- The First Year Learning and Mentoring Program helps you settle into IIMS while Life Skills modules prepare you for the journey ahead with communication, leadership and soft skills basics.

## THROUGHOUT STUDIES

- With IIMS dedicated and experienced lecturers, entrepreneurship modules, community service projects, state-of-the art facilities, clubs and societies, alumni support and more, immerse in an atmosphere that inspires you with knowledge, creativity, and collaboration.
- Enjoy networking opportunities with industry leaders.
- Enhance your employment opportunities with IIMS Career Services Centre's 7-Step Graduate Development Plan.

## FINAL YEAR

- With IIMS dedicated and experienced lecturers, entrepreneurship modules, community service projects, state-of-the art facilities, clubs and societies, alumni support and more, immerse in an atmosphere that inspires you with knowledge, creativity, and collaboration.
- Enjoy networking opportunities with industry leaders.
- Enhance your employment opportunities with IIMS Career Services Centre's 7-Step Graduate Development Plan.

## HONE IN ON THREE INTELLIGENCES

### INTELLECT



Taylor's Curriculum Framework offers a strong foundation with mix-and-match modules, industry placements, borderless learning, and more...

### CRAFT



Nurture your creativity through IIMS's Innovate Space, Bizhub, Research & Enterprise.

### PRACTICAL WISDOM



Build skillsets for the working world through Life Skills modules, guided by specialized moderators.

# GRADUATE MULTISKILLED

Taylor's Curriculum Framework (TCF) is a flexible study framework designed to future-proof you within Taylor's sphere, with a broader set of graduate capabilities beyond academic knowledge. Stand out from others with well-rounded skills built through borderless learning, hybrid degrees, mix-and-match modules, and work-based learning, supported by various initiatives.

## 1. GRADUATE WITH 8 TAYLOR'S GRADUATE CAPABILITIES (TGC)

Highly valuable capabilities for employability in the Fourth Industrial Revolution (4IR).



### TGC 1

Discipline Specific Knowledge



### TGC 3

Lifelong Learning



### TGC 5

Personal Competencies



### TGC 7

Entrepreneurialism



### TGC 2

Critical Thinking, Problem solving & Creative thinking skills



### TGC 4

Communication Skills



### TGC 6

Social Competencies



### TGC 8

Global Perspectives

## 2. STAND OUT WITH A GRADUATE CAPABILITIES ATTAINMENT STATEMENT (G-CAT)



Showcase your dedication in developing graduate capabilities.



Potential employers can make informed hiring decisions.

## 3. GET RECOGNISED WITH A SHINE AWARD IN CONTRIBUTING TO SOCIETY



Impactful Social Responsibility



Relationship Building & Networking



Teamwork & Collaboration



Personal Achievements



Cultural Adaption & Appreciation

## TCF INITIATIVES

Mix & match module by complementing your primary major with :

FREE ELECTIVE

MINOR

SECOND MAJOR

EXTENSION

MASTER DEGREE LEVEL MODULES (NEW)



Classroom to boardroom opportunities through innofest, bizpod, industry immersion projects



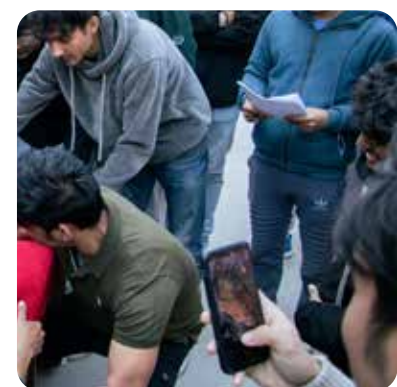
Engage with future employers during the professional development week



Build resilience, global perspectives & cultural adaptivity through student exchange programmes

# IIMS EXPERIENCE







# HOW WILL I STUDY?

## Engaging study of Incredible Results

### TEACHING

Lectures will form the backbone of your studies in the first year, when you will be taking up to four modules at any given time. Each module will typically involve around three to four hours of study per week, combining a mix of formal lectures and activities such as tutorials or computer labs.

### PRACTICAL TEACHING

Practical, self-directed study will play a central role in your learning throughout your degree, particularly in relation to the group and individual projects which take place from first year. 5 recently refurbished dedicated computer labs offering seamless internet, study area and off-class hour access is ideal for this purpose.

### PERSONAL TUTOR

You will be allocated a personal tutor to help and advise you during your time at college. Your tutor is one of your first ports of call if you have any problems or questions and will offer you help, encouragement and feedback on your performance on the course.

### HOW YOU WILL BE ACCESSED?

Modules assessment involves a combination of coursework and written examination. Lecture-based modules are typically be assessed via exam at the end of each semester. The coursework may be individual or group work involving programming, research, writing and/or presentations and reflections. Typically in the third and fourth years of some of courses, depending on which specialization path you follow, you will be assessed fully by a presentation and project reports.



## TEACHING & LEARNING SUPPORT

### COLLEGE LIBRARY

IIMS houses a physical library with more than 7000+ books covering all aspects of learnings.

### ONLINE LIBRARY ACCESS

IIMS students and lecturers are given access to the University's subscribed online resources. This means students and lecturers can obtain the required educational contents without having to wait and go to the physical library.

### ONLINE LEARNING (MYTIMES)

IIMS students and lecturers are given access to University's online learning platform, i.e. MyTimes. Through this platform, students will receive course materials, assignments and additional study resources.

### IIMS STUDENT SUCCESS CENTRE

Student success Centre offers intervention for students via knowledge sharing through workshops, consultations and peer support services to provide learning opportunities throughout the student's journey towards academic success.

### IIMS MOBILE APPS

IIMS students, lecturer and parents are given access to Mobile app. Through this platform, students will receive all course information such as notifications, class timetable, assignments, results, college events and more.



# ENTRY REQUIREMENTS

There are no entrance exam. Also, while there are no specific subjects you need to study at secondary school to study Computer Science at IIMS, Mathematics are very useful.

## ELIGIBILITY

- 50% marks or aggregate 2.0 CGPA in SLC/SEE
- 50% marks or aggregate 2.0 CGPA in +2/NEB
- or
- **International Baccalaureate (IB)** - Minimum 24 points in 6 subjects
- or
- **A Levels** - Minimum DD, or an equivalent of a minimum of 120 points

## ADMISSION PROCESS

- Choose a course and complete the physical or online application form.
- Submit to college all required original documents.
- If any documents are not currently available or missing, please pre-inform us. You can later submit to admission team.
- University registration process only begins after submission of all required documents.

## SCHOLARSHIPS

Each year we offer scholarships to 10% of enrolled students awarded on the basis of internal assessment, review and interview. Below are the listed scholarships. for more details please email us at [admission@iimscollege.edu.np](mailto:admission@iimscollege.edu.np)

- Merit Scholarship (Max. 75% tuition fee waiver)
- Talent (Non-Sports) Scholarship (Max. 100% tuition fee waiver)
- Sports Scholarship (Max. 100% tuition fee waiver)
- Community Scholarship (Max. 100% tuition fee waiver)
- Academic Excellence Scholarship (Max. Rs 50,000 fee waiver)

## DOCUMENTS REQUIRED

- Academic Transcripts of Grade 10 & 12
- Character Certificates
- English Proficiency Test results or Medium of Instruction Letter
- Citizenship or Passport Certificate
- 2 \* Passport sized Photo



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Facebook : [www.facebook.com/iimscollege](http://www.facebook.com/iimscollege)



# BACHELOR COMPUTER SCIENCE (HONS)

This publication contains information, which is current as of May 2024. Changes in circumstances after this date may impact upon the accuracy of timeliness of the information. IIMS College does its best to ensure that the information contained herein is accurate, but reserves the right to change any information described in this prospectus without notice. Readers are responsible for verifying information that pertains to them by contacting the college.