Specific Job Fields

A Bachelor of Science in Information Technology graduate from UITS would have the following fields of employment:

As Information Technology Specialists:
Information Technology Specialists in Companies.

As Programmers:
Developing web portals and E-commerce applications and data analysis as well as scientific computing.

As Researchers:
Conducting cutting edge research in 5G and 6G, Blockchain, genomics etc.

As Faculties:
Public and Private High Schools, Colleges and Universities.

As Trainers:
For Application Support and training on Computer Applications.

As Game Developers:
In the most challenging and rewarding Game industry with different positions like Artificial Intelligence, (AI) Developer, Graphic Designer, etc.

Opportunities

◇ Provision of simultaneous registration / credit transfer to other universities
◇ Recognition of previous education and experience
◇ Collaboration with international universities
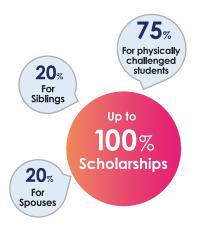◇ Research facilities for students with up to date technology trends

Facilities

◇ **Excellent Lab facilities:** Computer Laboratories, Telecommunication Laboratory, Digital Electronic Laboratory, Physics Laboratory, Chemistry Laboratory
◇ Free Wi-Fi Access
◇ Fast-growing Library

Scholarship & Waiver policy

100%	A+ in all subject in SSC & HSC (Conditions apply) For the rest 50%
40%	For GPA 10 in SSC & HSC
30%	For GPA 9.5 in SSC & HSC
20%	For GPA 9.0 in SSC & HSC
15%	For GPA 8.5 in SSC & HSC
10%	For GPA 8.0 in SSC & HSC

75% For physically challenged students

20% For Siblings

20% For Spouses

Up to **100%** Scholarships

☑ Sufi Mizanur Rahman Foundation Scholarship Fund
(For meritorious students suffering from financial hardship)

☑ Hon'ble Chairman/BoT/Vice Chancellor's Scholarship

☑ Ratnagarbha Tahmina Rahman Scholarship Fund
(Based on semester results)

B.SC. IN INFORMATION TECHNOLOGY

INFORMATION TECHNOLOGY PROGRAM AT UITS

Department of Information Technology was established in UITS in 2006, with the objectives of imparting quality education in the field of Computer Science and Information Technology. With rapidly evolving technology and the continuous need for innovation, the Department has always produced quality professionals, holding important positions in Information Technology industry in Bangladesh and abroad.

VISION AND MISSION

The vision of the Program is to scaffold the next generation of engineers and scientists in a student-centered learning environment to reach digital fluency in Information Technology. The challenge is to make the student's competent, skilled leader in the wake of the ever-changing and challenging global work environment of the 21st century.

The mission of the Program is to achieve national prominence by providing outstanding education and research training to our undergraduate students for their productive careers in industry, academia and government.

UITS

Future will be better than thy past

Curriculum Structure

Curriculum Structure	Credits
General Education	12
Basic Science and Mathematics	21
Other Engineering	5
Core Courses	80.5
Specialized Course	16
Undergraduate Projects	5
Capstone Projects	4.5
Total= 144 Credits	

Admission Eligibility

- According to the UGC rules applicants must have at least 2nd Division or GPA 2.5 in Both SSC and HSC (or equivalent). If there is any GPA 2.00 in SSC/HSC (or equivalent) then the total GPA must have to be GPA 6.00.
- For O level & A level, at least for 5 subjects in O level and 2 subjects in A level, the applicants must have GPA 4.00 or B Grade in 4 subjects & GPA 3.5/C Grade on the other 3 subjects.
- For Freedom Fighters children the total GPA may be considered as 5.00 for each applicant.

Expenditure

Admission Fees (One time)
Application Form	1000
Admission Fee	15,000
Student Welfare (One time)	200

Tuition Fees
Tuition Fee (per credit)	3000
Total Tuition Fees (144 Credits)	4,32,000
Total Program Cost	**4,96,200**

Other Fees (Per Semester):
Including Library Fee, Laboratory Fee, 6,000 BDT Transport Fee and Co-curriculum Fee.

Courses of B.Sc in Information Technology

1st Semester — 18.5 Cr.

Code	Course Title	T	L
IT06131101	Structured Programming Language	3	
IT06131102	Structured Programming Language Lab		1.5
GED04111101	Communicative English	3	
GED04111102	Communicative English Lab		1
CHEM05311101	Engineering Chemistry	3	
EEE07131101	Fundamental of Electrical Engineering	3	
EEE07131102	Fundamental of Electrical Engineering Lab		1
MATH05411101	Differential and Integral Calculus	3	

2nd Semester — 20.5 Cr.

Code	Course Title	T	L
IT06131201	Object Oriented Programming Language	3	
IT06131202	Object Oriented Programming Language Lab		1.5
IT06131203	Software Engineering and System Analysis	2	
IT06131204	Software Engineering and System Analysis Lab		1
IT05411205	Discrete Mathematics	3	
GED********	General Education (Any One)	2	
ME07151201	Engineering Drawing		1
MATH05411201	Ordinary and Partial Differential Equations	3	
PHY05331201	Engineering Physics	3	
IT06131000	Computer System Management Project		1

3rd Semester — 20 Cr.

Code	Course Title	T	L
IT06112101	Data Structures and Algorithm I	3	
IT06112102	Data Structures and Algorithm I Lab		1.5
IT06112103	Digital Logic Design	3	
IT06112104	Digital Logic Design Lab		1
IT06132105	Software Requirement Analysis and Specification	2	
IT06132106	Software Requirement Analysis and Specification Lab		1
IT06122107	Database Management System	3	
IT06122108	Database Management System Lab		1.5
MATH05412101	Coordinate Geometry, Linear Algebra, and Vector Analysis	3	
IT06112000	User Experience Design Project		1

4th Semester — 19.5 Cr.

Code	Course Title	T	L
IT06112201	Data Structures and Algorithm II	3	
IT06112202	Data Structures and Algorithm II Lab		1.5
IT06132203	Software Architecture and Design	2	
IT06132204	Software Architecture and Design Lab		1
IT05412205	Numerical Methods and Analysis	3	
IT06112207	Computer Architecture	3	
GED********	General Education (Any One)	2	
MATH05412201	Complex Variables, Fourier Analysis and Laplace Transform	3	
IT06132001	Software Engineering Web Application Project		1

5th Semester — 21 Cr.

Code	Course Title	T	L
IT06133101	Software Testing & Quality Assurance	2	
IT06133102	Software Testing & Quality Assurance Lab		1
IT06123103	Data Communication and Computer Networks	3	
IT06123104	Data Communication and Computer Networks Lab		1
MATH05423101	Probability and Statistics for Engineers	3	
GED********	General Education (Any One)	2	
IT061*****	Specialized I	3	
IT061*****	Specialized I Lab		1
IT061*****	Specialized II	3	
IT061*****	Specialized II Lab		1
IT06133000	Mobile Application Development Project		1

6th Semester — 20 Cr.

Code	Course Title	T	L
IT06133201	Software Security and Maintenance	2	
IT06133202	Software Security and Maintenance Lab		1
IT06193203	Artificial Intelligence	3	
IT06193204	Artificial Intelligence Lab		1
IT06113205	Theory of Computation	2	
IT061*****	Specialized III	3	
IT061*****	Specialized III Lab		1
IT061*****	Specialized IV	3	
IT061*****	Specialized IV Lab		1
GED02233201	Ethics for Engineers	2	
IT06133001	Embedded System Management Project		1

7th Semester — 18.5 Cr.

Code	Course Title	T	
IT06114101	Microprocessors, Microcontroller and Assembly Language	3	
IT06114102	Microprocessors, Microcontroller and Assembly Language Lab		1
IT06134103	Operating System	3	
IT06134104	Operating System Lab		1
IT06134105	Cloud Computing and Distributed System	3	
IT06134106	Scientific Research & Methodologies Lab		1
IT06134107	Emerging Trends and Technologies	2	
IT06134000	Capstone Project		4.5

8th Semester — 6 Cr.

Code	Course Title	T	
IT06134201	Software Project Management	2	
IT06134202	Software Project Management Lab		1
IT06134204	Industrial Attachment		3