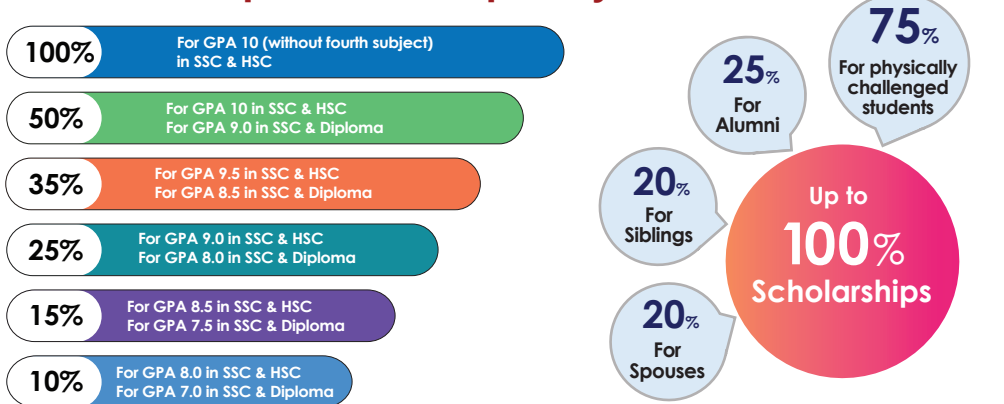


Scholarship & Waiver policy



- ☑ 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)

Facilities

- Supportive academic environment with 100% full-time faculties.
- Multimedia Based Modern Classroom for Audiovisual Education (MBE)
- 10 dedicated highly equipped Civil Engineering laboratories with Super Computer lab facility.
- Fast-growing Library and Language Centre
- IT Help Desk and smart student Academic & Welfare Services
- Online Admission, Registration & Payment System

Scopes and Opportunities

- Visiting various Civil Engineering Project
- Study tour / Excursion outside Dhaka
- Job fair & Career opportunities
- Civil Engineering Festival & Project Exhibition
- Annual Picnic & Celebrations
- Alumni Association / Industrial Linkage
- Periodic Conferences & Seminars
- Technical Training Programs and Workshops
- Research, Testing, Consultancy etc.
- Student Clubs, Societies etc.
- International Institutional Linkage Programs & Co-operations
- Indoor and Outdoor sports facilities.



Further Program Initiatives under CE Department

- Department of Urban Planning and Transportation Engineering
- Department of Environmental and Water Resource Engineering
- Civil Engineering Research Institute (CRI)

B.Sc. in CIVIL ENGINEERING

UGC-IQAC ranked as "GOOD" Civil Engineering Program

Civil Engineering Program at UITS

The Department of Civil Engineering, UITS offers a four years Bachelor of Science in Civil Engineering program and is currently running Dual Semester system according to the guidelines of the University Grants Commission (UGC). The total credit hours required for the Bachelor of Science (B.Sc.) in Civil Engineering at UITS is 160.0 credits for HSC/ equivalent students and 134.0 credits (with waiver of 26 credits) for diploma students. The diploma students may acquire their degrees in 7 semesters with flexibility of classes.

Vision

The Vision of the Department of Civil Engineering is to achieving excellence in quality higher education, research, innovation, and societal services. Our students are the agents who make an impact in the society as professionals, academics, and innovators for sustainable development

Mission/Program Objectives

To prepare Civil Engineers with technical competency and leadership skill for successful life-long careers which will be inevitably faced with constantly changing technical and managerial challenges.



University of Information Technology & Sciences

Permanent Campus: Holding 190, Road 5, Block J, Baridhara, Maddha Nayanagar, Vatara, Dhaka-1212
Phone: 09678 008487, Cell: +8801713-487709, +8801939-915209, +8801844-043870
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UIITS

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University of Information Technology & Sciences

Future will be better than thy past

Curriculum Structure

For HSC/Equivalent passed students		For Diploma/Equivalent passed students	
Curriculum Structure	Credits	Curriculum Structure	Credits
General Education	9.5	General Education	6.0
Basic Sciences	12.0	Basic Sciences	6.0
Mathematics	12.0	Mathematics	12.0
Engineering (Basic)	44.0	Engineering (Basic)	27.5
Structural Engineering	22.5	Structural Engineering	22.5
Environmental Engineering	8.5	Environmental Engineering	8.5
Geotechnical Engineering	8.5	Geotechnical Engineering	8.5
Transportation Engineering	8.5	Transportation Engineering	8.5
Water Resources Engineering	8.5	Water Resources Engineering	8.5
Civil Engineering Practice	10.5	Civil Engineering Practice	10.5
Major/Minor	11.0	Major/Minor	11.0
Project/ Thesis	4.5	Project/ Thesis	4.5
Total : 160.0		Total : 134.0	

Admission Eligibility

- According to the UGC rules applicants must have at least 2nd Division or GPA 2.5 in both SSC and HSC. If there is any GPA 2.00 in SSC/HSC 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	500
Admission Fees	10,000
Student Welfare	200

For HSC/Equivalent Student

Tuition Fees (per credit)	3,000
Total Tuition Fees (160.0 Credits)	4,80,000
Total Program Cost	5,26,700

Other Fees (Per Semester): 4,500

Including Library Fees, Laboratory Fees, Transport Fees and Co-curriculum Fees.

For Diploma/Equivalent Student

Tuition Fees (per credit)	3,000
Total Tuition Fees (134.0 Credits)	4,02,000
Total Program Cost	4,44,200

Courses of Bachelor of Science in Civil Engineering (CE)

160.0 Credits

A. General Education (9.5 Credits)

Code	Course Title	Cr.
GED 101	The Four Skills of Communication in English I	2.0
*GED 102	Developing English Language skills lab	1.5
*GED 153	Accounting	2.0

Bangla Courses: (Any one)

GED 119	History of the Emergence of Independent Bangladesh	2.0
GED 117	Functional Bangla	2.0
GED 105	Bangladesh Studies	2.0

Optional Courses : (Any One)

GED 155	Sociology (option)	2.0
GED 157	Economics (option)	2.0
GED 159	Government (option)	2.0

B. Basic Science (12 Credits)

Code	Course Title	Cr.
*PHY 175	Physical Optics, Waves and Oscillation, Heat and Thermodynamics	3.0
PHY 177	Structure of Matter, Electricity and Magnetism and Modern Physics	3.0
*PHY 176	Engineering Physics Lab	1.5
CHE 175	Engineering Chemistry	3.0
*CHE 176	Engineering Chemistry Lab	1.5

C. Mathematics (12 Credits)

Code	Course Title	Cr.
MAT 153	Differential and Integral Calculus, Matrices	3.0
MAT 155	Differential Equations and Statistics	3.0
MAT 257	Coordinate Geometry and Vector Analysis	3.0
MAT 259	Fourier Analysis and Laplace Transformation	3.0

D. Basic Engineering (44 Credits)

Code	Course Title	Cr.
CE 101	Engineering Mechanics	3.0
*CE 103	Surveying	3.0
CE 201	Engineering Materials	3.0
CE 203	Engineering Geology and Geomorphology	3.0
CE 251	Mechanics of Solids I	3.0
CE 253	Mechanics of Solids II	3.0
CE 241	Fluid Mechanics	3.0
*EEE 241	Fundamentals of Electrical Engineering	3.0
CE 209	Numerical Methods and Analysis	2.0
*CE106	Practical Surveying	1.5
*CSE 252	Computer Programming Lab	1.5
*CE 102	Civil Engineering Drawing	1.5
*CE 104	Computer Aided Drafting	1.5
*CE 108	Workshop Sessional	1.5
*CE 202	Details of Construction Lab	1.5
CE 204	Engineering Materials Lab	1.5
*CE 206	Quantity Surveying	1.5
CE 208	Structural Mechanics Lab	1.5
CE 242	Fluid Mechanics Lab	1.5
CE 304	Engineering Computation Lab	1.5
CE 302	Remote Sensing and GIS Lab	1.5

E. Structural Engineering (22.5 Credits)

Code	Course Title	Cr.
CE 351	Structural Analysis and Design I	3.0
CE 353	Structural Analysis and Design II	3.0
CE 451	Structural Analysis and Design III	3.0
CE 355	Design of Concrete Structures I	3.0
CE 357	Design of Concrete Structures II	3.0
CE 359	Design of Steel Structures	3.0
CE 360	Steel Structures Design Lab	1.5
CE 356	Concrete Structures Design Lab I	1.5
CE 452	Concrete Structures Design Lab II	1.5

F. Environmental Engineering (8.5 Credits)

Code	Course Title	Cr.
CE 311	Water Supply Engineering	3.0
CE 313	Waste water and Sanitation Engineering	4.0
CE 314	Environmental Engineering Lab-I	1.5

G. Geotechnical Engineering (8.5 Credits)

Code	Course Title	Cr.
CE 321	Principles of Soil Mechanics	4.0
CE 323	Foundation Engineering	3.0
CE 324	Geotechnical Engineering Lab-I	1.5

H. Transportation Engineering (8.5 Credits)

Code	Course Title	Cr.
CE 331	Transportation Planning and Traffic Engineering	3.0
CE 333	Pavement Design and Railway Engineering	4.0

CE 334	Transportation Engineering Lab-I	1.5
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I. Water Resources Engineering (8.5 Credits)

Code	Course Title	Cr.
CE 341	Open Channel Flow	3.0
CE 345	Hydrology, Irrigation Engineering and Flood Management	4.0
CE 342	Open Channel Flow Lab	1.5

J. Civil Engineering Practices (10.5 Credits)

Code	Course Title	Cr.
CE 491	Project Planning and Construction Management	3.0
CE 493	Professional Practices, Communication and Ethics	3.0
CE 494	Professional Practices and Communication Sessional	1.5

Optional Courses: Any One

CE 495	Socio-Economic Aspects of Development Projects	3.0
CE 498	Business and Career Development	3.0

K. Optional Courses Major + Minor (11 Credits)

Code	Course Title	Cr.
Structural Engineering (Any two theory + one Lab)		
CE 453	Introduction to Finite Element Method	2.0
CE 455	Prestressed Concrete	2.0
CE 457	Design of Concrete Structures III	2.0
CE 459	Dynamics of Structures	2.0
CE 461	Introduction to Steel-Concrete Composite Structure	2.0
CE 454	Computer Aided Analysis and Design Sessional	1.5

Environmental Engineering (Any two theory + one Lab)

CE 411	Solid and Hazardous Waste Management	2.0
CE 413	Environmental Pollution Management	2.0
CE 415	Environmental and Sustainable Management	2.0
CE 414	Environmental Engineering Lab-II	1.5

Geotechnical Engineering (Any two theory + one Lab)

CE 421	Earth Retaining Structures	2.0
CE 425	Soil Water Interaction	2.0
CE 423	Elementary Soil Dynamics	2.0
CE 427	Geotechnical Earthquake Engineering	2.0
CE 424	Geotechnical Engineering Lab-II	1.5

Transportation Engineering (Any two theory + one Lab)

CE 431	Traffic Planning and Management	2.0
CE 433	Pavement Management, Drainage and Airport	2.0
CE 435	Urban Transportation Planning and Management	2.0
CE 434	Transportation Engineering Lab-II	1.5

Water Resources Engineering (Any two theory + one Lab)

CE 443	Ground Water Engineering	2.0
CE 445	River Engineering	2.0
CE 447	Hydraulic Structures	2.0
CE 449	Coastal Engineering	2.0
CE 448	Water Resources Engineering Lab	1.5
Code	Course Title	Cr.
CE 490	Project/Thesis	4.5

* Asterisk (*) indicates waived courses for Diploma/Equivalent passed students.

