

BITS–UB

“UBITS”

Dual-Degree Programme



BITS Pilani
Pilani | Dubai | Goa | Hyderabad | Mumbai
An Institution of Eminence

UB
University at Buffalo
The State University of New York

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BITS-UB (“UBITS”) 2+2 International Collaborative Programmes’ Admissions

BITS Pilani (an Institution of Eminence in India) and the University at Buffalo, The State University of New York have partnered to offer an exciting opportunity for students to pursue unique collaborative academic programmes at the international level. Students can pursue a dual degree programme whereby they can obtain an engineering degree from BITS Pilani and an engineering degree from the University at Buffalo (UB) upon successful completion of the programme requirements.

Students admitted under this UBITS collaboration will have the unique opportunity to immerse themselves in diverse cultures and gain a truly global perspective. In this four-year collaborative ‘dual degree’ programme, students will spend the first two years along with a summer term at BITS Pilani campuses before transferring to UB in Buffalo, New York for the remaining two years (i.e., years three and four) of their study period. Our innovative curriculum combines the strengths of both academic environments, offering an outstanding education that would prepare them for success in today’s rapidly changing world. With state-of-the-art facilities, inspiring faculty, and a wide range of extracurricular activities, this UBITS collaboration is the perfect place to launch students’ productive academic and professional journeys.

It is planned to admit students in the following four undergraduate programmes from two leading universities from the Academic Year 2025-26 programmes onward.

- B.E. Computer Science by BITS Pilani, Pilani Campus and B.S. Computer Engineering by University at Buffalo
- B.E. Computer Science by BITS Pilani, Pilani Campus and B.S. Computer Science by University at Buffalo
- B.E. Electrical and Electronics by BITS Pilani, Pilani Campus and B.S. Electrical Engineering by University at Buffalo

- B.E. Electronics and Communication by BITS Pilani, K.K. Birla Goa Campus and B.S. Electrical Engineering by University at Buffalo
- B.E. Mechanical by BITS Pilani, Hyderabad Campus and B.S. Mechanical Engineering by University at Buffalo

1. Eligibility Requirement for Admission:

Admissions will be made purely on merit for all four programmes offered under UBITS 2+2 International Collaborative Programmes. The candidate's merit position for admission will be based on the score obtained by the candidate in the BITSAT-2025. Thus, applicants must undertake the BITS Admission Test (BITSAT) and achieve a score that meets or exceeds the relevant cut-off score for admission to the BITS-UB programmes. In addition to BITSAT score, applicants must also fulfil the minimum eligibility requirements for admission prescribed by both BITS Pilani and UB as mentioned below.

(a) BITS Pilani minimum eligibility requirement

Applicants should also fulfil the minimum eligibility requirement of BITS Pilani for admission as follows:

- The applicant has passed the 12th examination of 10+2 system from a recognized Central or State board or its equivalent with Physics, Chemistry and Mathematics (PCM) and adequate proficiency in English; Also, the applicant has obtained a minimum of aggregate 75% marks in PCM in 12th examination, with at least 60% marks in each of the PCM subjects.
- The applicant undertakes the BITS Admission Test (BITSAT) and achieves a score that meets or exceeds the relevant cut-off score for admission to the BITS Award, as determined by BITS from time to time.

(b) University at Buffalo minimum eligibility requirement

Applicants should also fulfil the minimum eligibility requirements of the University at Buffalo for admission as follows. The UB admission process will occur during year two of the programme.

- One of the following must be achieved:
Successful completion of one of the following secondary qualifications in India:
 1. All India Senior School Certificate (AISSC) 10+2 with a minimum average of 65%*
 2. Indian School Certificate (ISC) with a minimum average of 65%*

3. State Boards of Education Higher Secondary Certificate, (HSC) with a minimum average of 70%*

*Overall average for graded academic subjects, excluding work experience, physical and health education, art, religious and general studies.

- (ii) Successful completion of the AISSC; ISC; State Board HSC Mathematics/ HSC Mathematics with a minimum grade of 60%.
- (iii) Where an applicant does not have an Indian secondary qualification, they must meet the UB criteria for their respective country of secondary education study as approved by UB and notified to BITS by UB (listed on the UB website under entry requirements by country, from time to time).
- (iv) English Language Entry Requirements

Applicants must meet UB's English Language proficiency requirements as follows:

1. Applicants are required to provide evidence of English language proficiency for admission into the above UBITS 2+2 International Collaborative Programmes in accordance with the requirements published on UB's website from time to time.
2. Where an English language proficiency test is used for admission, the test must be taken no more than 2 years prior to the applicant's Commencing Date for the UBITS 2+2 International Collaborative Programmes.
3. Applicants who have not completed one of the English proficiency tests listed above or as published on the UB website from time to time can be deemed to have met the English language entry requirements if they can provide evidence of one of the following.

English Proficiency Test Type & Minimum Scores

Below are the minimum scores to be eligible for consideration for admission to UB's undergraduate programmes. These scores do not guarantee admission. If your scores are lower than those listed in the chart, you may still be considered for admission if you retake the English Language test and submit a passing score.

TEST	MINIMUM SCORES*
TOEFL (IBT) (including MyBest scores) TOEFL Home Edition	70
TOEFL Essentials	8.5

TOEFL (PBT) and TOEFL ITP Plus	523
IELTS and IELTS Indicator	6.0
PTE Academic or PTE Academic Online	50
ACT (English AND reading sections)	18
SAT I ERWS	500
CAEL	70
CanTEST	4.5
Cambridge English Proficiency (CPE)	185
Cambridge English Advanced (CAE)	185
IB Higher Level English A Literature	4
IB Higher Level English A Language and Literature	4
AS Level or A Level English or English Language Subject	C
Duolingo English Test (DET)	105

- UB accepts the TOEFL MyBest score. Official MyBest scores must be sent directly from ETS to UB (UB's institutional TOEFL code is 2925). Self-reported MyBest scores cannot be used.
- Scores must be less than two years old at the time of admission; older scores will not be accepted.
- Official scores must be sent directly to UB from the testing agency.
- Photocopies and scanned documents may be submitted for initial review.

More information is available at <https://www.buffalo.edu/internationaladmissions/get-ready-to-apply/apply/freshman-admissions-criteria.host.html/content/shared/www/internationaladmissions/admissionscriteria/bs/english.detail.html>

Note: UBITS students are required to achieve the following sub-section scores on the TOEFL, IELTS, Duolingo or PTE tests to be placed in the ELI 105 course offered remotely by UB in the first semester of the UBITS Collaborative Programme. Students whose sub-section scores are lower than the sub-section minimums below will be placed in ELI 100, and will take ELI 105 remotely in summer 2026 ([to be eligible to](#)

enroll in ELI 105, such students must successfully complete ELI 100 with a “C” grade or higher).

Sub-Section Skill	iBT TOEFL Minimum Sub-Section Score	IELTS Minimum Sub-Section Score	Duolingo English Test (DET) Minimum Sub-Section Score	Pearson Test of English (PTE) Minimum Sub-Section Score
Reading	21	6.5	120	61
Listening	21	6.5	115	57
Speaking	23	6.5	135	65
Writing	24	6.5	140	74

Please also note that the students enrolled in the 2+2 UBITS International Collaborative Programme are required to transfer to the UB Campus in USA to complete Year 3 and Year 4 program requirements. In order to progress to the University at Buffalo as part of the BITS-UB International Collaboration Programme, students should have at the end of their first two years a CGPA of at least 5.0, with no BITS course fulfilling a UB degree requirement having a BITS grade below D (grade point 4.0) in such courses. In addition, students must receive passing grades (D grade or better) in courses completed via the UB online mode that serve as prerequisites for other UB degree requirements.

In addition, during their second year after being admitted to UB, students in the UBITS programme must successfully apply for an **F-1 student visa** needed to enter the United States as a student. Once admitted to UB and having provided evidence of financial sufficiency, UBITS students will receive an I-20 visa document to apply for an F-1 student visa. [Complete information about applying for an F-1 visa may be found here.](#)

2. Mode of Admission:

Admissions will be made purely on merit. The merit position of the candidate will be based on the score obtained by the candidate in a Computer based Online Test (BITSAT) conducted by BITS, Pilani. The candidates should also fulfil the essential requirement of a minimum of aggregate 75% marks in Physics, Chemistry and Mathematics subjects in the 12th examination with at least 60% marks in each of the Physics, Chemistry, and Mathematics subjects.

Upon completion of the BITSAT successfully, students will make their Programme selections which will include the BITS-UB programmes. Details of applicants who meet BITS admission criteria will be forwarded to University at Buffalo for assessment against their eligibility criteria such as proof of year 12 marks and proof of English language proficiency to the UB standard.

Admission into the Academy for UAE (Dubai) based offerings will include details of applicants who meet BITS admission criteria being forwarded to UB for assessment against UB eligibility criteria such as proof of year 12 marks and proof of English language proficiency to the UB standard. Students that UB deems to have met their criteria will be confirmed with BITS Pilani. Successful applicants will be provided admission offers.

According to the UGC Regulations mentioned above, dual-degree programmes will be those which are offered by both the Indian and foreign university in the same subject area and at the same qualification level. Degrees will be awarded separately and simultaneously from both universities. Prospective students must meet the admission requirements of both the Indian and Foreign universities and shall apply to and be admitted separately to both universities.

Duration:

The normal duration of the programme will be 8 semesters (Four Semesters and a summer term at any of the Campuses of BITS Pilani and another four Semesters at University at Buffalo, USA).

Internship opportunities:

- Engineering programmes at the University at Buffalo include a required capstone design experience that spans the senior year (fall and spring semesters). Students work in teams to tackle a real-world engineering design problem. It is common for students to work with industry partners on senior design projects. The experiences leverage the technical and professional skills (e.g., teamwork, communication, creativity, critical thinking, problem solving, leadership) students acquire over the span of the four-year programme. At the end of the spring semester, project teams present their work in various forums. Below are programme-specific details.
- UB, New York State's flagship university and member of the Association of American Universities (AAU), is a world-class university with a worldwide impact. With an enrollment of more than 30,000, including more than 5,000 international students, UB is consistently recognized as one of the world's most exceptional universities, making it a top choice for students and faculty around the globe.
- UB's School of Engineering and Applied Sciences (SEAS), founded in 1946, provides an inclusive environment that supports big thinking, creative freedom, and vast possibilities for achievement. The program of study includes extensive hands-on experiences in the curriculum and is complemented by both research and employment opportunities during the academic semesters and summer.
- Students in SEAS have access to world-class facilities and laboratories, including an electrical engineering clean room, a digital manufacturing lab, a machine shop with CNC equipment and 3D printers, a motion-base driving simulator, a 24,000-square-foot outdoor UAV research structure, a leading academic supercomputing facility, and so much more.
- In addition to UB's vibrant international student clubs, SEAS offers over 45 science and engineering-related clubs and organizations where students can explore ideas, network with SEAS professors and industry professionals, and gain hands-on research experience.
- Engineering students take advantage of internships and cooperative education opportunities that provide paid and supervised work experience to complement formal academic classwork. The University office provides career advising and preparation support for internships, and post-graduation employment.

- International students on a study visa (F-1) can also pursue off-campus employment opportunities prior to the completion of an academic program or degree by availing of the Curricular Practical Training (CPT), for example for internships and co-ops during the summer or academic semester. Students are eligible for upto 365 days of CPT while completing their bachelor's degree.
- Post-completion Optional Practical Training (OPT) is a 12-month period of work authorization (up to 24 months for engineering fields), or practical training. OPT is an opportunity for F-1 students to take what they learned in the classroom and apply their knowledge to a work setting. Generally, these work experiences are off-campus or for non-student positions at UB.

The four dual degree programmes in collaboration with University at Buffalo (UB) are proposed to be launched in AY 2025-26 as part of partnership arrangement. The UB engineering programmes proposed for this partnership are fully accredited by ABET and require capstone projects. These are either industry sponsored or faculty led research projects. Students will apply their technical knowledge, research, design and professional engineering skills to either discipline specific, or cross disciplinary engineering problems, through robust research and established engineering design processes.

The collaborative 'dual degree' programmes at the international level are proposed to be offered in collaboration with University at Buffalo in the same specialization and at the same qualification level. The general curricular structure for the students admitted under Augmented Collaborative Articulation Pathway (ACAP) under BITS-UB collaboration is given in **Annexure 1**. Also, the proposed semester-wise pattern for students admitted to B.E. Computer Science, B.E. Electronics and Communication, B.E Electrical and Electronics programmes, and B.E Mechanical to be offered under BITS – UB international collaboration is given in **Annexure 2(A), (B), (C) and (D)** respectively. To fulfil the requirements, a few new courses may be introduced later, if required.

In this 4-year collaborative 'dual degree' programme, students will spend the first two years alongwith a summer term (if required) at BITS Pilani campuses before getting transferred to University at Buffalo in USA for the remaining two years (i.e., years 3 and 4) of their study period. The courses mentioned in the semester-wise pattern in years 1 and 2 alongwith the summer term (if any) will be offered at BITS Pilani Campuses whereas those courses specified in years 3 and 4 will be offered at UB. The Equivalent Unit may be considered by assuming that a course of 1 units offered at BITS Pilani is equivalent to a 1 credit points course offered by UB. The actual units mapping of the courses shall be decided based on the equivalent courses offered at BITS Pilani and UB. Accordingly, the UB credit points will be converted into BITS course units and vice versa by making appropriate equivalency of these courses. The Cross Campus Departmental Committee on Academics (CCDCA) of the respective department will work out all minute details of offering various courses to refine the semesterwise pattern of the respective programme from time to time in consultation with Dean, AUGS and will report back to the Senate.

Annexure 1

Table 1: Required Category wise structure of each program to fulfill Degree requirement of BITS Pilani under BITS-UB 2+2 Joint International First Degree Programmes

Category	Courses to be offered at BITS Pilani		Courses to be offered at UB (for BITS Requirement)		Total	
	Courses	Unit	Courses	Eq. Unit*	Courses	Unit
Humanities Elective	(0-3)	(0-9)	(0-3)	(0-9)	3	9
Science Foundation	6 (6)	12 (12)			6	12
Mathematics Foundation	4 (4)	12 (12)			4	12
Engineering Foundation	2 (2)	6 (6)			2	6
Technical Arts	(3-4)	(7-10)	(0-1)	(0-3)	4	10
General Awareness / Professional Courses	2 (2)	6 (6)			2	6
Sub-Total	(17-21)	(43-55)	(0-4)	(0-12)	21	55
Core	(7-11)	(26-37)	(3-8)	(14-24)	(10-16)	(33-48)
Discipline Elective	(0-4)	(0-15)	(0-4)	(0-15)	(4-9)	(12-27)
Sub-Total	(7-15)	(26-52)	(3-12)	(14-39)	(14-20)	62
Open Elective	(0-9)	(0-27)	(0-9)	(0-27)	(5-9)	(15-27)
Capstone Project			2	8	2	8
Grand Total	(24-32)	(69-92)	(14-23)	(52-68)	(46-54)	144

***Equivalent Unit:** Assuming a course of 3-4 units offered at BITS Pilani is equivalent to a 3-4 credit points course offered by UB. The Unit of each Capstone Project offered at UB is proposed to be considered equal to 4 units at BITS Pilani. The actual units mapping of the courses shall be decided based on the equivalent courses offered at BITS Pilani.

Note:

1. Unlike other BITS students, BITS-UB students need not to register for Practice School

or Thesis. Such students will have to complete two Capstone Projects in place of Practice School II or First Degree Thesis to meet the requirements of their degree programmes.

2. Some of the courses which are offered at UB may have different credit points, the grades earned by the students at UB will be converted appropriately by making equivalency of the courses and by converting UB credit points into BITS units, and the CGPA shall be calculated accordingly based on their grades earned in all the respective courses.

Table 1 given above describes the general curricular structure for the 2+2 International Collaborative First Degree Programmes offered under BITS-UB collaboration. Accordingly, the semesterwise pattern of each specific programme is designed as given in Annexure [2\(A\)](#), [\(B\)](#), [\(C\)](#) and [\(D\)](#) to fulfil degree requirement of BITS Pilani for BITS-UB students.

3. Integrated First Degree programmes to which admissions will be made on the basis of BITSAT-2025:

(i) At BITS Pilani, Pilani Campus:

- B.E. Computer Science by BITS Pilani and B.S. Computer Engineering by University at Buffalo (For more details about programme plan, semester-wise pattern and cred arrangements, please [click here](#)).
- B.E. Computer Science by BITS Pilani and B.S. Computer Science by University at Buffalo (For more details about programme plan, semester-wise pattern and cred arrangements, please [click here](#)).
- B.E. Electrical and Electronics by BITS Pilani and B.S. Electrical Engineering by University at Buffalo (For more details about programme plan, semester-wise pattern and cred arrangements, please [click here](#)).

(ii) At BITS Pilani, K.K. Birla Goa Campus:

- B.E. Electronics and Communication by BITS Pilani and B.S. Electrical Engineering by University at Buffalo (For more details about programme plan, semester-wise pattern and cred arrangements, please [click here](#)).

(iii) At BITS Pilani, Hyderabad Campus:

- B.E. Mechanical by BITS Pilani and B.S. Mechanical Engineering by University at Buffalo (For more details about programme plan, semester-wise pattern and cred arrangements, please [click here](#)).

4. Procedure to Apply for admission in UBITS 2+2 International Collaborative Programmes:

In addition to applying and appearing for BITSAT-2025, candidates have to also apply for admission to UBITS 2+2 International Collaborative Programmes giving details of their 12th marks and preferences to different degree programmes offered at three Indian campuses of BITS and the University at Buffalo. The prescribed application form for admission, the detailed application procedure will be made available at the BITS admission website, tentatively on **June 1, 2025**. The completed application form with the details of their 12th marks and preferences to different degree programmes along with the required application fee has to be submitted online at the [BITS admission website](#) on or before **the deadline mentioned on [BITS Pilani admission website](#)**.

5. Fee structure:

Tuition fees in years one and two of the dual degrees are payable to BITS Pilani. Annual tuition fees for students commencing 2025 are:

- **Year 1 (2025) INR 8,42,700**
- **Summer Term after Year 1 (2026): INR 1,47,500**
- **Year 2 (2026) INR 8,84,800**

Other additional non-tuition fees can be found on the [BITS Admission website](#).

For courses undertaken in Buffalo, New York in years 3 and 4, students pay standard University at Buffalo [nonresident student tuition and fees](#) for the programmes.

- **Year 3 (2027): 31,735.54 USD (2024-2025 rate) ***
- **Year 4 (2028): 31,735.54 USD (2024-2025 rate) ***

* UB may adjust nonresident tuition and fees at the beginning of each academic year. Over the past five years, UB tuition and fee increases have typically been between 2 and 4% per year. Information regarding other costs such as amenities fees, mandatory health insurance, and costs of living can be found on the UB programme guide. Note: summer enrollment at UB would cost extra and would be based on per-course basis.

Scholarship

Students participating in the UBITS 2+2 Engineering Cohort programme will be eligible for the UB Engineering Cohort Merit Scholarship to University at Buffalo. UB Engineering Cohort Merit Scholarship levels are based upon successful engagement and academic performance in the first 2-year component of the programme at BITS Pilani. All students who transfer to UB will receive a UBITS Scholarship of US\$10,000, supplemented by a US\$2,000 UBITS Merit Scholarship (total of US\$12,000) for each of their two years at UB - this will be reflected in their I-20. In addition, the top 25% of UBITS students, as determined by BITS and based on their BITS CGPA after the completion of the first two years, will also receive a UBITS Merit Scholarship of US\$3,000 for a total scholarship award of US\$15,000 per year for two years; this merit scholarship will be awarded in summer 2026, once CGPAs for the first two years are determined.

**** To maintain the scholarship, UBITS students must remain in good academic standing, with a UB GPA of at least 2.0.***

To qualify for these scholarships, students must:

- be fully admitted to University at Buffalo
- major in an engineering discipline at University at Buffalo under UBITS 2+2 International Collaborative Programmes)

[Click here](#) for an FAQs on the UBITS 2+2 International Collaborative Programmes
For fee details of UBITS 2+2 International Collaborative Programmes [click here](#)

For details of BITSAT-2025, please visit [BITS Admission website](#)

You should also refer [BITSAT-2025 Brochure](#)

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BITS Pilani admission

