

About Assam Don Bosco University

Assam Don Bosco University (ADBU), located in Guwahati, Assam, India, is a project of the Salesians of Don Bosco (SDB), executed by the International Don Bosco Society. The university is accredited with an 'A' grade by NAAC and is recognized by the UGC, AICTE, and DEC. ADBU is a member of prestigious associations such as AIU (India), ACU (UK), and IAU (France). The university offers a diverse portfolio of academic programmes at the undergraduate, postgraduate, and doctoral levels across disciplines such as Engineering, Computer Applications, Management, Social Sciences, Life Sciences, Pharmaceutical Sciences, and Humanities. Known for its academic excellence and industry-aligned education, ADBU has consistently featured in the national and international rankings.

About the Department of CSE

The Department of Computer Science and Engineering at Assam Don Bosco University was established in 2008 and has since evolved into a vibrant center for education, research, and innovation. It offers BTech (CSE, AI & ML), MTech (IoT, Data Science, Information Security), and PhD programmes with interdisciplinary research opportunities.

The Department is known for its high-quality teaching, impactful research, and consultancy services, supported by a team of experienced and versatile faculty members. It has earned national recognition, with faculty and student teams excelling in prestigious events across the country.

The Department actively pursues high-impact research and consulting through ongoing projects and sponsored schemes, contributing to the University's interdisciplinary ecosystem. It also has a strong global alumni network and remains committed to academic excellence and innovation.

For any query, contact

(i) Dr. Alexy Bhowmick
Associate Professor, Dept. of CSE
Assam Don Bosco University School of Technology
Guwahati, Assam, India - 781 017
Email: alexey.bhowmick@dbuniversity.ac.in
Phone: +91 94358 40040

(ii) Prof. (Dr.) Bobby Sharma
Professor and Head, Dept. of CSE
Assam Don Bosco University School of Technology
Guwahati, Assam, India - 781 017
Email: bobby.sharma@dbuniversity.ac.in
Phone: +91 98593 38847



[https://edu.ieee.org/
in-adbusot/stm32training-2025](https://edu.ieee.org/in-adbusot/stm32training-2025)

One Week Training Course *on*

Microcontroller and
Embedded Operating
Systems with STM32
04th to 08th August 2025

Organized by
**Department of Computer Science &
Engineering**



Assam Don Bosco University
School of Technology, Azara, Guwahati

in association with

**Frankfurt University of Applied
Sciences**
Frankfurt, Germany

Course Coordinators:
Dr. Alexy Bhowmick
Prof. (Dr.) Bobby Sharma

Our Patrons

Fr. (Dr.) Jose Paley, Vice Chancellor, Assam Don Bosco University, Assam, India
Fr. (Dr.) Joseph Nelanatt, Pro Vice-Chancellor
Fr. (Dr.) Zacharias George, Registrar
Prof. (Dr.) Manoranjan Kalita, Director, ADBUSoT
Prof. (Dr.) Riju Sharma, Director, International Relations and CDSI
Prof. (Dr.) Karsten Schmidt, Vice Dean of Faculty 2, Frankfurt UAS, Frankfurt, Germany
Ms. Juliane Reinhardt-Max, Director of the International Office, Overseas Partnerships and Agreements, Frankfurt UAS, Frankfurt, Germany
Prof. (Dr.) Bobby Sharma, Head, Dept. of CSE

Organizing Committee

Mr. Arup Baruah, Assistant Professor
Dr. Manasi Hazarika, Assistant Professor
Mr. Alok Choudhury, Assistant Professor
Dr. Syed Sazzad Ahmed, Assistant Professor
Ms. Smriti P Medhi, Assistant Professor
Mr. Thoudam Johnson Singh, Assistant Professor
Dr. Nupur Choudhury, Assistant Professor
Mr. Rupesh Mandal, Assistant Professor
Dr. Nilakshi Devi, Assistant Professor
Ms. Pallavi Borah, Assistant Professor
Dr. Mriganka Sarmah, Assistant Professor

About the Training Course

The One Week Training Course equips participants with practical skills in Embedded Systems — crucial to modern electronics, automation, and IoT. Centered around the widely adopted STM32 microcontrollers,

the training course bridges academic knowledge with real-world applications, making it ideal for students and engineers seeking hands-on experience in designing efficient, real-time embedded solutions. Participants get a unique opportunity to engage directly with international faculty, gain hands-on exposure, and explore potential academic and research opportunities abroad.

The training course covers essential topics, including:

- GPIO Programming and Timers
- Communication protocols: UART, SPI, I2C
- ADC/DAC interfacing
- Firmware flashing and memory management
- RTOS fundamentals and FreeRTOS integration
- Multitasking, Task scheduling, and Semaphores
- Inter-task Communication using queues
- Programming Techniques and Best practices
- Practical Lab sessions and Guided mini-projects.

Resource Persons

The training sessions will be led by Prof. (Dr.) Karsten Schmidt, with support from Monar Fall and Jeldrik Schröer, Teaching Assistants from the Department of Computing and Engineering, Frankfurt University of Applied Sciences, Germany.

Who can Apply

2nd/3rd/4th year B.E./B.Tech students from CSE, AIML, EEE, or ECE and related disciplines are eligible. Students from other institutes are also welcome.

Selection

Only 32 seats are available. Selections will be made on a first-come, first-served basis.

Fee

The five-day training course fee is Rs. 2000 for ADBU students and Rs. 2500 for others. It includes a certificate (jointly signed by ADBU and Frankfurt UAS), access to training kit, welcome kit, and refreshments. Sessions will be held from 8:30 AM – 3:30 PM. Out-station participants must arrange their own travel and stay.

How to Apply

Please apply for the training course at the URL given below. Selected applicants will be notified via email to confirm their participation and complete the fee payment.

Important Dates

Last date to Apply	July 24, 2025
Intimation of selection (before)	July 25, 2025
Confirmation and payment of fee	July 28, 2025

Contact

Please add our email id stm32training@gmail.com to your address book to receive information from us about the training course.

Don't miss this exceptional opportunity to learn and connect.

Apply

[https:](https://edu.ieee.org/in-adbusot/stm32training-2025)

[//edu.ieee.org/in-adbusot/stm32training-2025](https://edu.ieee.org/in-adbusot/stm32training-2025)