

FOR EDUCATIONAL INSTITUTIONS WORLDWIDE

Industrial AI, IoT & 6G for Educational Institutions

IICT GmbH is a German deep-tech company connecting the digital and physical worlds through diverse connectivity, IoT, Embedded & Physical AI, Private 5G and future 6G features. We help universities and technical institutes worldwide add research capability, training labs, Centres of Excellence and student programs without building infrastructure from scratch.



IoT & IIoT

LPWAN

Open RAN

Private 5G

Embedded AI

Future 6G

Solutions for your institution

Three integrated products for research, training labs, CoEs and student programs.



For Research

MULTI-TECH TESTBEDS & EXPERIMENTATION

Validate IoT, Private 5G/6G and Embedded AI before publication or deployment.

- Testbeds spanning IoT, Private 5G, Open RAN, future 6G features, Embedded & Physical AI
- Joint applied R&D, pilots and technology benchmarking
- KPI measurement, use-case evaluation kits and decision reports
- Faculty research, theses and joint publications



For Training Labs

HANDS-ON LEARNING SYSTEMS

Pre-configured, curriculum-ready systems with hardware, software and lab manuals in one kit.

- Private 5G SA, LPWAN, Industrial IoT and Embedded AI in one rig
- Portable student evaluation kits with 20+ guided hands-on exercises
- No infrastructure build required
- Fixed and mobile testbed configurations



For Centres of Excellence

HANDS-ON LEARNING SYSTEMS

Turnkey design, build and curriculum integration for a campus-anchored CoE.

- End-to-end design, build and commissioning
- Train-the-trainer programs for faculty enablement
- Industry-aligned curriculum with joint course certification
- A campus technology hub for research and industry engagement



For Student Programs

HANDS-ON COURSES WITH VIRTUAL LABS

Self-paced courses, guided capstones and an Internship & Project Readiness Program.

- Self-paced, guided and instructor-led delivery through the IICT GmbH Learning Platform
- Cloud-accessible virtual labs (LaaS) or MoU-based installation on host institute PCs
- Industry-aligned capstones, including the SmartSense AI-powered edge device
- Internship & Project Readiness certification

○ Vendor-neutral

○ Hands-on

○ Engineered in Germany

○ Research-backed

Curriculum ready to teach

Three complete training and laboratory solutions with curriculum, LMS content, virtual labs and capstone projects.



End-to-End Wireless IoT Systems & Applications

Guided capstone
IoT-based Smart city



Embedded AI & Artificial Intelligence of Things (AIoT)

Guided capstone
SmartSense edge device



Systems Programming & Use Case Development

Guided capstone
5G video surveillance

Included with every Hands-on course

Industry-aligned syllabus and lab manuals, faculty development or IICT GmbH certified delivery, continuous assessment and joint certification.



Flexible adoption models

Individual Hands-on Courses
German Certificate Programs

Industry-Linked Electives
Faculty Development Programs

Minor Specialization Programs
CoE Curriculum

MoU based Laboratory-as-a-Service (LaaS)

A semester subscription to IICT GmbH's virtual-lab platform, with no major laboratory investment. Includes setup on your college computers, guided experiments, project infrastructure and technical support throughout the semester.

One integrated Learn › Test › Deploy path

Hands-on learning, industrial testbeds and deployment-ready technology under one roof.



Structured lab courses with guided exercises, starter code and assessments.



Real hardware kits and virtual labs for IoT, embedded AI and 5G/6G experimentation.



Industry-aligned capstones: smart manufacturing, predictive maintenance and edge AI.

Supported by Germany's
innovation network



Ready to bring 6G, AIoT & Embedded AI to your campus?

Let's identify your entry point: a pilot program, a lab kit or a full CoE.

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