



AARAMBHx TECHNOLOGY x AARAMBHx ACADEMY

Institutional Training & Technology Programs.

AI & GENAI SYSTEMS

IOT & EMBEDDED HARDWARE

CYBERSECURITY

AI WORKFLOW AUTOMATION

Empowering students with industry-relevant technology skills.

AarambhX Academy is the dedicated engineering education and hands-on workshop wing of AarambhX Technology — demystifying Artificial Intelligence from scratch, building live IoT hardware rigs, training defensive cybersecurity and automating enterprise workflows for schools, polytechnics and engineering colleges.

ACADEMIC & INSTITUTIONAL PROGRAMS

TUMAKURU • BENGALURU • ACROSS KARNATAKA

ON-SITE CAMPUS DELIVERY • LIVE HYBRID BOOTCAMPS

— ABOUT AARAMBHx

Engineering education, delivered where your students are.

Aarambhx Technology is a complete technology service and solutions company based in Tumakuru, Karnataka — providing software development, digital solutions, hardware services, networking, IoT development, IT support and technology consulting under one roof. AarambhX Academy is its dedicated engineering education and hands-on workshop wing, built to bridge academia and industry with real-world technology.

WHO WE ARE

One technology partner

We are a working technology company — not a lecture-only training vendor. Our teams design and ship websites, custom software, IoT prototypes, office networks and automation systems for businesses and institutions across Tumakuru, Bengaluru and Karnataka. That daily engineering practice is what shapes everything we teach in the classroom.

WHAT WE DO

Train. Build. Automate.

Through AarambhX Academy we run campus workshops, departmental bootcamps, hackathons and Faculty Development Programs. We teach AI from first principles, build live IoT hardware rigs, train defensive cybersecurity in isolated labs, and automate enterprise workflows — for students, schools, polytechnics and engineering colleges.

OUR APPROACH

100% Hands-On

Zero boring PowerPoint lectures. Every session is hands-on and terminal-driven, building real software and hardware prototypes from day one.

Project-Based

Students leave with working implementations — capstone projects, hackathon builds and evaluated demos, not just attendance.

Industry-Relevant

Curriculum is engineered around current industry toolchains — generative AI, ESP32-class hardware, OWASP security practice and workflow automation.

THE METHOD

Learn

Concepts taught from first principles

Build

Guided labs on real toolchains

Deploy

Working prototypes shipped live

Showcase

Evaluated demos & capstones

150+**STUDENTS TRAINED**

Across campus programs

100%**HANDS-ON LABS**

Terminal-driven sessions

4**CORE TECH TRACKS**

AI • IoT • Security

24h**QUOTATION**

Tailored institutional proposals

— THE INSTITUTIONAL CASE

Why institutions choose AarambhX.

Eight reasons colleges, schools and institutes across Karnataka bring AarambhX Academy to their campus — each one rooted in how our workshops are actually engineered and delivered.

01 100% Hands-On Labs

Sessions are terminal-driven and lab-executed. Students build on their own laptops or college lab systems from the first hour — not watch slides.

02 Industry-Relevant Curriculum

Tracks are engineered to 2026 industry specifications — generative AI, agentic systems, ESP32-class IoT, OWASP security postures and modern automation tooling.

03 Project-Based Capstones

Every program closes with evaluated practical work — capstone projects, live team hackathons or capture-the-flag challenges students can demonstrate.

04 Expert-Led Sessions

Training is delivered by practitioners who build commercial software, IoT prototypes and automation systems at AarambhX Technology every week.

05 Flexible Institutional Delivery

Formats span 1-day workshops, 3-day and 1-week bootcamps and fully customized programs — structured around your calendar, departments and skill levels.

06 Co-Branded Certification

Every participant who completes the workshop and its practical capstone receives a verified, co-branded Certificate of Completion from AarambhX Technology.

07 Zero Paid Licenses

All software tools, simulators, code repositories and developer environments used in our workshops are open-source or free-tier — no licensing cost to the institution.

08 Syllabus & Accreditation Alignment

We coordinate with HODs and deans to align workshop modules with VTU or autonomous syllabus requirements and NAAC / NBA value-added course criteria.

THE SHORT VERSION

A working technology company that teaches what it builds — with **hands-on labs**, **evaluated capstones**, **verifiable certificates** and zero licensing cost for your institution.

ACADEMIC & INDUSTRIAL TRACKS

Technology training programs.

Four core tracks, each architected from first principles — no prior programming experience required. Every track includes terminal hands-on labs, guided implementation and a capstone component.

01 AI, GenAI & Autonomous Agentic Systems

MOST POPULAR • 2026 INDUSTRY SPEC

From fundamental mathematical intuition to cutting-edge autonomous agents. Students master Deep Learning, Transformers, multimodal Gemini APIs, RAG document knowledgebases and self-directing agentic workflows.

Generative AI

Transformers

Agentic AI

Gemini API

RAG & Vector DB

Includes terminal hands-on lab code & GitHub repository

02 IoT, Robotics & Embedded Hardware

Real hardware that communicates. Students wire microcontrollers on physical breadboards, write C/C++ firmware, interface sensor arrays and publish live cloud telemetry over MQTT networks.

ESP32

Arduino C++

MQTT

Raspberry Pi

I2C / SPI

Works with existing college lab equipment & cloud IoT simulators

03 Cybersecurity & Ethical Hacking

Defensive security literacy for future engineers. Students learn packet sniffing, vulnerability auditing, OWASP security postures, zero-trust architectures and ethical hacking lab scenarios.

Wireshark

Kali Linux

OWASP

Nmap

Burp Suite

Isolated virtual lab environment with pre-configured attack vectors

04 AI & Intelligent Workflow Automation

Eliminate manual operational friction. Students, office teams and organizations combine dynamic spreadsheets, Power Query pipelines, n8n webhooks and generative AI bots to automate business processes end-to-end.

AI Automation

Power Query

n8n / Webhooks

Document AI

WhatsApp Bots

Includes ready-to-deploy workflow automation templates

TRACK SELECTION

Not sure which track fits your department? **Module mixes, depth and duration are tailored per batch** — share your objectives and receive a tailored syllabus with a transparent quotation within 24 hours.

[REQUEST A CUSTOM SYLLABUS](#)

DETAILED ROADMAP

Sample curriculum framework.

The AI, GenAI & Autonomous Agentic Systems track shown as the sample. Every track follows the same four-module architecture — foundations, toolchain, hands-on development, capstone — and is customized per department, duration and student skill level.

MODULE	TOPICS	PRACTICAL COMPONENT	OUTCOME
MODULE 01 Foundations & The Neural Leap	Python vectorization, classical ML intuition, backpropagation visualized, and the move from shallow networks to Deep Learning.	Guided terminal exercises on vectorized computing and network training from scratch.	Students build a rigorous mental model of how neural networks actually learn.
MODULE 02 NLP & The Transformer Revolution	Tokenization, dense vector embeddings, the Attention mechanism, and how Large Language Models read and generate human-like text.	Environment setup and hands-on transformer experiments in guided labs.	Students become fluent with the modern LLM toolchain and its core concepts.
MODULE 03 Multimodal Generative AI & RAG	Prompt engineering patterns, Gemini API multimodal integration (text + image + audio), and Retrieval-Augmented Generation over private documents.	Build exercises: multimodal AI applications and a private-document RAG knowledgebase.	Students apply concepts by implementing production-style AI features.
MODULE 04 Autonomous Agentic AI & Capstone	Tool use and function calling, multi-agent collaboration (planning, memory, reflection) and shipping an autonomous web agent.	Capstone project on a real-world problem, with evaluation and demonstration.	Students produce a demonstrable agentic project they can showcase.

INCLUDED IN EVERY TRACK

- Terminal hands-on lab code & GitHub repository
- Isolated virtual lab environments
- Ready-to-deploy automation templates
- Capstone evaluation & demonstration

i Curriculum is a framework, not a fixed script

Modules can be re-weighted, merged or extended per department, duration and student skill level — the four-module architecture stays constant across all tracks. Detailed syllabi for the IoT, Cybersecurity and Automation tracks follow the same structure with track-specific practicals.

INSTITUTIONAL PARTNERSHIPS

Flexible training formats.

We travel directly to your school, polytechnic, engineering college or office. We handle all curriculum preparation, lab software setup and student project supervision.

FORMAT 01

1-Day Workshop

FULL-DAY CAMPUS SESSION

Best for technology awareness, introductions to emerging technologies and short institutional events.

- Expert-led thematic session
- Live demonstrations
- Guided practical activity
- Q&A with the lead trainer
- Participation certificate*

FORMAT 02

Bootcamp & Hackathon3-DAY • 1-WEEK •
DEPARTMENTAL

Best for deeper technical learning, hands-on implementation and project development for CSE, ISE, ECE and AIML branches.

- Structured track curriculum
- Hands-on labs on student laptops
- Live team hackathon
- Capstone evaluation
- Co-branded certificates*

FORMAT 03

Customized ProgramDURATION & SYLLABUS
TAILORED

For institutions requiring custom durations, department-specific curricula, student skill-level adaptation and custom project requirements.

- Custom syllabus design
- VTU / autonomous alignment
- NAAC / NBA value-added mapping
- Custom project requirements
- Tailored quotation in 24 hours

SPECIALIZED CAMPUS PROGRAMS

Faculty Development Programs

Upskilling professors and lecturers in generative AI, IoT cloud pipelines and research tooling — aligned with NBA / NAAC criteria, with post-workshop curriculum support.

School STEAM & Young Innovators

Demystifying electronics and coding for 8th–12th standard students through safe, modular breadboards, visual block-coding and beginner Python micro-experiments.

Institutional Workflow Automation

On-site masterclasses for academic office staff and administrative teams — automating repetitive paperwork with Excel, Power Query and AI bot workflows.

*Issued on successful completion of the workshop and its practical capstone, where applicable per track and format.

30–60

CLASSROOM BATCH

Single department

60–120DEPARTMENT /
AUDITORIUM

Multi-section delivery

120+

COLLEGE-WIDE FEST

Large-scale formats

10–30

FACULTY GROUPS

FDP cohorts

— STUDENT LEARNING JOURNEY

From learning to building.

Every AarambhX program moves students along the same engineered path — from first-principles understanding to evaluated, certifiable proof of skill.

01

Understand FIRST PRINCIPLES

Students learn the fundamentals in intuitive terms — core logic explained simply before any code or circuits, so no prior programming experience is required.

02

Practice GUIDED LABS

Students work through guided, terminal-driven exercises with lab code and GitHub repositories — on their own laptops or the college lab systems.

03

Build HANDS-ON IMPLEMENTATION

Students create practical implementations — multimodal AI apps, sensor rigs, security audits or automation pipelines — with instructor supervision.

04

Solve REAL-WORLD PROBLEMS

Students apply their skills to real-world problems through capstone projects, live team hackathons and gamified capture-the-flag challenges.

05

Showcase DEMONSTRATION

Students present and defend their work — evaluated demonstrations that mirror viva and industry review settings.

06

Certify VERIFIED PROOF

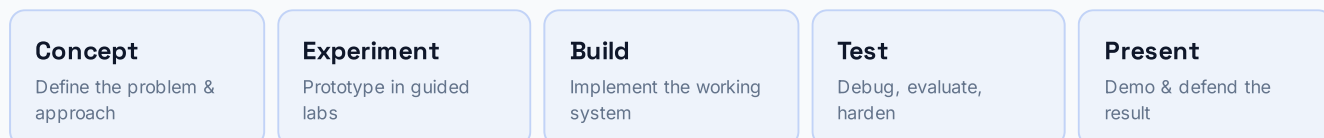
Participants who complete the workshop and its practical capstone receive a verified, co-branded Certificate of Completion from AarambhX Technology.

PROJECT-BASED LEARNING

Build something real.

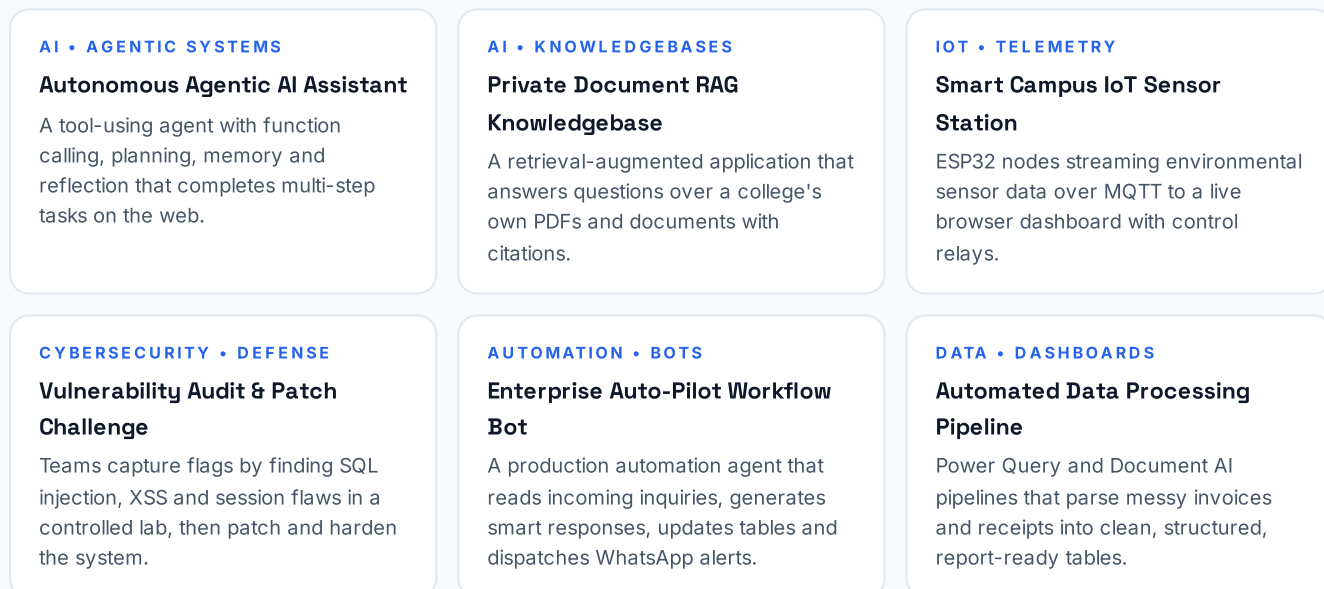
Students should not simply attend lectures. Every track is engineered so participants move through a complete build cycle and leave with working implementations they can demo, defend and add to their portfolios — mentored end-to-end by practitioners.

THE BUILD CYCLE



EXAMPLE PROJECT IDEAS

Illustrative capstone directions for workshop cohorts — actual capstone topics are selected together with the institution, department and student skill level.

**Capstone depth scales with the format**

One-day workshops close with guided practical builds; bootcamps, hackathons and customized programs close with fully evaluated capstone projects and team demonstrations.

— WHAT YOU RECEIVE

Institutional deliverables.

A clear, complete handover — what your institution receives when you run an AarambhX program, from preparation to post-workshop support.

**Structured curriculum & transparent syllabi**

Battle-tested syllabi shared upfront, structured for rapid comprehension and high-retention learning.

**Terminal-driven hands-on lab sessions**

Every session executed as a practical lab — 100% lab execution on student laptops or college systems.

**Lab code & GitHub repositories**

Complete terminal hands-on lab code hosted in repositories for student reference and revision.

**Curriculum & lab software preparation**

We handle all curriculum preparation and lab software setup before the program begins.

**Student project supervision**

Mentored project work throughout — architecture, clean code, circuit schematics and debugging support.

**Capstone & hackathon evaluation**

Live team hackathons and capstone assignments with structured, demonstrable evaluation.

**Isolated virtual lab environments**

Security tracks run in isolated virtual labs with pre-configured attack vectors — safe by design.

**Verifiable co-branded certificates**

Verified, co-branded Certificates of Completion for every successful participant.

**Ready-to-deploy automation templates**

Workflow automation templates your staff and students can continue using after the program.

**Post-workshop curriculum support**

Continuous post-workshop support for faculty and ongoing curriculum coordination.

CERTIFICATION

Every participant who successfully completes the workshop and its practical capstone receives a **verified, co-branded Certificate of Completion** issued by AarambhX Technology.

VERIFIED & CO-BRANDED

— SIMPLE, TRANSPARENT LOGISTICS

Infrastructure & requirements.

Institutions provide only the basics. All software tools, simulators, code repositories and developer environments used in our workshops are open-source or free-tier platforms.

FROM THE INSTITUTION**College Provides**

- A standard computer lab or classroom
- Internet connectivity
- Instructor projector / display
- Power supply for lab sessions
- Lab systems where student laptops are unavailable

FROM THE PARTICIPANTS**Students Bring**

- A laptop where available (preferred)
- No paid software — all tools are open-source or free-tier
- Workshop environments are pre-configured by our team
- No prior programming experience required

TRACK-SPECIFIC ONLY**Specialized Hardware**

- IoT track: ESP32 / Arduino / Raspberry Pi boards, sensors and breadboard kits
- IoT track works with existing college lab equipment and cloud IoT simulators
- Cybersecurity track: no special hardware — runs in an isolated virtual lab
- AI & automation tracks: standard computers only

**Zero licensing cost to your institution**

Every tool, simulator, repository and developer environment used across all four tracks is 100% open-source or free-tier. No paid licenses are required before, during or after the program.

**Hardware requirements are program-specific**

Hardware kits apply only to the IoT & Embedded Hardware track. AI, cybersecurity and automation tracks run entirely on standard computers — we confirm exact requirements in the tailored proposal, within 24 hours of your inquiry.

— INSTITUTIONAL COLLABORATION PROCESS

How we work with your institution.

A simple five-step path from first contact to completed program — with a tailored syllabus, lab requirements and transparent quotation within 24 hours.

01

Connect — Reach Out

Your institution contacts AarambhX via WhatsApp, phone or the academy booking form — sharing the target track and preferred dates.

02

Understand — Scope the Program

We discuss department, student count, skill level, objectives, duration and preferred technology — from a single classroom batch to a college-wide fest.

03

Customize — Tailored in 24 Hours

Curriculum and delivery format are finalized — we formulate a tailored syllabus, lab requirements and transparent quotation within 24 hours.

04

Conduct — On-Campus Delivery

Our team travels to your campus and delivers the training — handling curriculum preparation, lab software setup and student project supervision.

05

Complete — Certify & Support

Students complete practical activities and capstones; applicable certification and documentation are provided, with post-workshop curriculum support.

Start an institutional discussion

WhatsApp us with your institution name, target track and preferred dates — we respond directly on WhatsApp or phone.

[BOOK AN INSTITUTIONAL DISCUSSION](#)

PARTNER WITH AARAMBHX

Let's build the next generation of technologists.

Bring practical, industry-relevant technology learning to your students. Tell us your institution, target track and preferred dates — we will formulate a tailored syllabus, lab requirements and a transparent quotation within 24 hours.

ACADEMY & WORKSHOP INQUIRIES

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Lead trainer — AarambhX Academy

WHATSAPP

+91 63647 68498

Fastest response — official business line

EMAIL

lalithulalu@gmail.com

Proposals & institutional correspondence

SERVICE AREA

Tumakuru • Bengaluru • Karnataka

On-site campus delivery & live hybrid bootcamps •
Mon-Sat, 9:00 AM – 8:00 PM



Scan to Explore the Academy

Tracks, curricula and workshop details at
aarambhx-tech.web.app/academy.html



Scan to Discuss on WhatsApp

Opens a pre-filled institutional inquiry —
no number typing needed.

BOOK AN INSTITUTIONAL DISCUSSION

Ideal for principals, HODs, TPOs, faculty coordinators and student club leads planning campus programs.