

AI OPTIMIZATION

THERMAL COMFORT	✓
AIR QUALITY	✓
STRUCTURAL STABILITY	✓

SUSTAINABILITY

ENERGY EFFICIENCY	92%
WATER RECYCLING	87%



CAPACITY

6-8
OCCUPANTS



DEPLOYMENT STATUS

OPERATIONAL
READY



AURORA-7
EMERGENCY HABITAT
MODULE

PHOENIX GLOBAL EDUCATION × FUTUREED

AI-Driven Emergency Housing

From Crisis Intelligence to Rapid Shelter Construction

EXECUTIVE INTERNATIONAL MASTERCLASS · FOUNDING COHORT EDITION

Led by Dr Samer El Sayary · 26-28 June 2026 · 18 Contact Hours



PHOENIX
GLOBAL EDUCATION LTD

EXECUTIVE INTERNATIONAL MASTERCLASS

AI-Driven Emergency Housing

From Crisis Intelligence to Rapid Shelter Construction



Founding Cohort Edition

Led by Dr Samer El Sayary

26 – 28 June 2026 · 18 Contact Hours · Premium Online

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"Architecture is no longer just about form and function. It is about intelligence — the intelligence to respond, adapt, and protect human dignity in moments of crisis."

This masterclass represents a paradigm shift in how we approach emergency housing. By fusing artificial intelligence with humanitarian architecture, we are creating a new generation of practitioners who don't just design shelters — they build intelligent systems that save lives.

Welcome to the founding cohort of a global movement.

Message from the Founder & CEO



Dr Rana Kandil

Founder & CEO

Founder & Director of FutureED Global Summit & Tech Expo

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"Education is not preparation for life; education is life itself — and in the age of AI, it is the architecture of possibility."

Dear Participants,

When I founded Phoenix Global Education, I carried a single conviction: that the future of education lies at the intersection of human expertise and artificial intelligence. Not AI as a replacement for human creativity — but AI as an amplifier of it.

This masterclass is the embodiment of that conviction. Dr Samer El Sayary has created something extraordinary — a programme that doesn't merely teach AI, but transforms practitioners into architects of intelligent systems that respond to the most urgent humanitarian challenges of our time.

You are joining the founding cohort of a global movement. The tools you build here, the frameworks you master, and the community you join will define the next chapter of humanitarian architecture.

Welcome to Phoenix. Welcome to the future.

Dr Rana Kandil · Founder & CEO · Founder & Director,
FutureED Global Summit & Tech Expo

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Message from the Academic Partner



Dr Samer El Sayary

Programme Director

Lead Academic

"We are not teaching AI. We are building the architects of intelligence — practitioners who can design systems that respond to crisis with precision, empathy, and speed."

Dear Colleagues,

The intersection of artificial intelligence and humanitarian architecture represents one of the most significant opportunities of our generation. This masterclass is designed not as a lecture series, but as a transformation experience.

Over three intensive days, you will move from understanding crisis contexts to building functional AI-powered tools. You will master the BRAIN framework, develop multi-agent systems, and create your own Site Analysis Pro tool — a genuine AI architecture assistant.

This is not theoretical. Every session produces tangible outputs. Every module builds toward your capstone project. By the end of Day 3, you will have built something real — something that can genuinely contribute to humanitarian response.

Let us build intelligence that serves humanity.

Dr Samer El Sayary · Programme Director



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The Global Context

Over **120 million people** are currently displaced worldwide — the highest figure in recorded history. Traditional humanitarian response cannot scale fast enough. The average refugee spends **17 years** in temporary shelter.

Artificial intelligence offers a transformative pathway: from reactive shelter provision to **predictive, adaptive, intelligent housing systems** that respond to climate, culture, and community in real time.

Sources: UNHCR Global Trends 2024, Sphere Standards, IFRC Shelter Guidelines

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Your Learning Journey

Three days. Nine modules. One transformation.



"You will not leave this programme the same practitioner you entered it. By Day 3, you will have built a functional AI tool, mastered a professional framework, and joined a global community of architectural innovators."

Programme Architecture

9 Progressive Modules · 18 Contact Hours · Live Online Delivery · Real-Time Tool Building · Peer Collaboration · Capstone Presentation · CPD Certification

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Programme Learning Outcomes

What you will achieve across 18 intensive hours

Humanitarian Crisis Intelligence

- Critically evaluate global displacement data using UNHCR, Sphere, and IFRC frameworks
- Synthesise multi-source crisis intelligence into actionable architectural briefs

AI Literacy & Architectural Fluency

- Construct sophisticated multi-variable prompts using the 6-part anatomy framework
- Map platform capabilities across ChatGPT, Claude, Gemini, and specialist tools

Tool Building & Development

- Design and deploy browser-based AI tools without traditional coding
- Implement iterative testing protocols for AI-generated architectural outputs

Multi-Agent Systems Design

- Architect collaborative AI systems using the BRAIN framework methodology
- Orchestrate specialist AI agents for complex humanitarian design challenges

Humanitarian Innovation

- Apply circular economy principles to emergency shelter material selection
- Develop debris intelligence systems for post-disaster material recovery

Capstone Integration

- Produce an original AI-powered architectural tool addressing a specific crisis scenario
- Present and defend design decisions to an expert peer audience

Professional Practice & Ethics

- Articulate ethical governance frameworks for AI in humanitarian contexts
- Demonstrate cross-cultural sensitivity in AI-assisted design processes

Research & Evidence

- Structure evidence-based arguments for AI integration in professional practice
- Identify pathways for academic publication from capstone research

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Executive Timetable

Day 1 — Foundations: Crisis Intelligence & AI Literacy

09:00 – 09:30 **Opening Ceremony & Programme Orientation**
Welcome, introductions, programme architecture overview, learning expectations

09:30 – 11:00 **Module 1: Crisis Intelligence & Humanitarian Context**
Global displacement landscape, UNHCR/Sphere/IFRC frameworks, data synthesis methodologies, case study analysis

11:00 – 11:15 **Break**
Networking & reflection

11:15 – 12:45 **Module 2: AI Literacy for Architects**
6-part prompt anatomy, platform capability mapping, hands-on prompt engineering workshop

12:45 – 13:30 **Lunch Break**
Informal networking

13:30 – 15:00 **Module 3: Prompt Architecture & Design Thinking**
Advanced prompt chains, design thinking integration, iterative refinement protocols

15:00 – 15:30 **Day 1 Synthesis & Reflection**
Key takeaways, preparation for Day 2, peer discussion

Day 2 — Construction: Tool Building & Multi-Agent Systems

09:00 – 09:15

Day 2 Opening & Recap

Day 1 synthesis, Day 2 objectives, mindset preparation

09:15 – 10:45

Module 4: Building Your First AI Architecture Tool

Browser-based tool development, no-code platforms, Site Analysis Pro v1.0 construction

10:45 – 11:00

Break

Testing & iteration time

11:00 – 12:30

Module 5: Multi-Agent Systems & BRAIN Framework

BRAIN methodology deep-dive, agent orchestration, collaborative AI architecture design

12:30 – 13:15

Lunch Break

Informal collaboration

13:15 – 14:45

Module 6: Advanced Tool Development & Testing

Site Analysis Pro v2.0, multi-agent integration, real-world scenario testing

14:45 – 15:30

Day 2 Synthesis & Capstone Briefing

Tool showcase, capstone project brief, preparation guidance

Day 3 – Integration: Innovation, Capstone & Future Ecosystem

09:00 – 09:15 **Day 3 Opening**

Capstone preparation check, Day 3 objectives

09:15 – 10:45 **Module 7: Humanitarian Innovation & Circular Economy**

Debris intelligence, material recovery systems, adaptive reuse AI, circular economy integration

10:45 – 11:00 **Break**

Final capstone preparation

11:00 – 12:30 **Module 8: Capstone Project Development**

Guided development studio, mentor support, peer collaboration, prototype refinement

12:30 – 13:15 **Lunch Break**

Presentation preparation

13:15 – 14:45 **Module 9: Capstone Presentations & Peer Review**

5-minute presentations, expert feedback, peer evaluation, portfolio documentation

14:45 – 15:30 **Closing Ceremony & Future Ecosystem**

Certification, alumni community access, future programme pathways, networking



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The Module Experience

Each module is designed as a progressive building block — from understanding crisis contexts to constructing functional AI tools. Every session produces tangible outputs that contribute to your capstone project.

The following pages detail each module's focus, methodology, and deliverables.

01 Crisis Intelligence & Humanitarian Context

90 MINUTES · LECTURE + WORKSHOP

Deep-dive into global displacement data, UNHCR frameworks, and Sphere Standards. Participants analyse real crisis scenarios and synthesise multi-source intelligence into actionable architectural briefs. Includes live data dashboard exploration and case study methodology.

Deliverable: Crisis Analysis Brief for a selected displacement context

02 AI Literacy for Architects

90 MINUTES · HANDS-ON WORKSHOP

Master the 6-part prompt anatomy framework. Map capabilities across ChatGPT, Claude, Gemini, and specialist architectural AI tools. Hands-on prompt engineering workshop with real-time feedback and iterative refinement.

Deliverable: Personal Prompt Library with 10+ tested architectural prompts

03 Prompt Architecture & Design Thinking

90 MINUTES · STUDIO SESSION

Advanced prompt chains, design thinking integration, and iterative refinement protocols. Learn to structure complex multi-step AI workflows that mirror architectural design processes. Introduction to system prompts and custom instructions.

Deliverable: Advanced Prompt Chain for emergency housing site analysis

04 Building Your First AI Architecture Tool

90 MINUTES · BUILD SESSION

Hands-on construction of Site Analysis Pro v1.0 — a browser-based AI tool for emergency housing site assessment. No coding required. Participants use no-code platforms to build functional tools that analyse terrain, climate, and infrastructure data.

Deliverable: Functional Site Analysis Pro v1.0 tool

05 Multi-Agent Systems & BRAIN Framework

90 MINUTES · FRAMEWORK MASTERY

Deep-dive into the BRAIN methodology — Building Responsive AI Networks. Learn to orchestrate multiple specialist AI agents that collaborate on complex humanitarian design challenges. Each agent handles a specific domain: structural, environmental, cultural, logistical.

Deliverable: BRAIN Framework implementation for a multi-agent shelter design system

06 Advanced Tool Development & Testing

90 MINUTES · ADVANCED BUILD

Upgrade Site Analysis Pro to v2.0 with multi-agent integration. Real-world scenario testing with actual displacement data. Implement feedback loops, error handling, and user experience refinement. Prepare tools for capstone integration.

Deliverable: Site Analysis Pro v2.0 with multi-agent capabilities

07 Humanitarian Innovation & Circular Economy

90 MINUTES · INNOVATION LAB

Explore debris intelligence systems for post-disaster material recovery. AI-powered circular economy integration for emergency housing. Adaptive reuse strategies, material passport systems, and sustainability metrics for crisis contexts.

Deliverable: Circular Economy Material Intelligence System prototype

08 Capstone Project Development

90 MINUTES · GUIDED STUDIO

Dedicated development time with mentor support. Participants refine their capstone AI tool, integrate learnings from all previous modules, and prepare for peer presentation. Includes structured feedback sessions and prototype testing with real data.

Deliverable: Complete capstone AI tool ready for presentation

09 Capstone Presentations & Peer Review

90 MINUTES · PRESENTATION & CRITIQUE

Each participant delivers a 5-minute presentation of their AI tool, demonstrating functionality, design rationale, and humanitarian impact. Expert feedback from Dr El Sayary, peer evaluation, and portfolio documentation for CPD evidence.

Deliverable: Presented capstone + peer feedback documentation

R —
RESEARCH

— A
ARCHITECTURE

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AI Technology Ecosystem

The BRAIN Framework

- B**uild — Construct specialist AI agents
- R**efine — Iterative prompt optimisation
- A**rchitect — System-level design thinking
- I**ntegrate — Multi-agent orchestration
- N**etwork — Collaborative AI ecosystems

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Site Analysis Pro

Your flagship tool — built from scratch during the masterclass. Analyses terrain, climate, infrastructure, and cultural context to generate intelligent site recommendations for emergency housing deployment.

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Participant Preparation Checklist

Complete before Day 1 to maximise your learning experience

Technical Setup

- Laptop/desktop with stable internet (min 10 Mbps)
- Chrome or Edge browser (latest version)
- ChatGPT Plus account (GPT-4 access required)
- Claude Pro account (recommended)
- Webcam and microphone for live sessions
- Dual monitor setup (recommended, not required)

Pre-Reading

- UNHCR Global Trends Report 2024 (executive summary)
- Sphere Handbook — Shelter chapter overview
- Review provided AI platform comparison guide

Mindset Preparation

- Identify a humanitarian housing challenge you care about
- Prepare 2-minute self-introduction for Day 1
- Review your current AI usage and identify gaps
- Set personal learning objectives for the 3 days

Administrative

- Confirm attendance for all 3 days
- Block calendar — 09:00 to 15:30 BST each day
- Join the participant WhatsApp/Slack community
- Complete pre-programme survey (link in welcome email)
- Download and review this handbook fully



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The Capstone Experience

Your capstone project is the culmination of all three days. You will design, build, and present an original AI-powered architectural tool that addresses a specific humanitarian housing challenge. This is not a theoretical exercise — it is a functional prototype that demonstrates your mastery.

Format

5-minute live presentation +
Q&A

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Output

Functional AI tool + design
rationale

Assessment

Expert + peer evaluation

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Certification & Professional Development

Upon successful completion of all three days and capstone presentation, participants receive:

Executive Certificate
Phoenix Global Education certified completion with 18 CPD hours documented

Digital Portfolio
All tools, prompts, and capstone project documented for professional evidence

Alumni Access
Lifetime access to Phoenix alumni community, future events, and mentorship network



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Community & Future Ecosystem

As a founding cohort member, you gain lifetime access to the Phoenix Global Education ecosystem:

Immediate Access

- Alumni Slack/WhatsApp community
- Monthly AI architecture webinars
- Tool library & resource hub
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Future Pathways

- Advanced masterclass series
- Research publication opportunities
- Mentorship & teaching roles

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"We do not teach participants about AI. We transform them into architects who build intelligence systems that save lives."

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