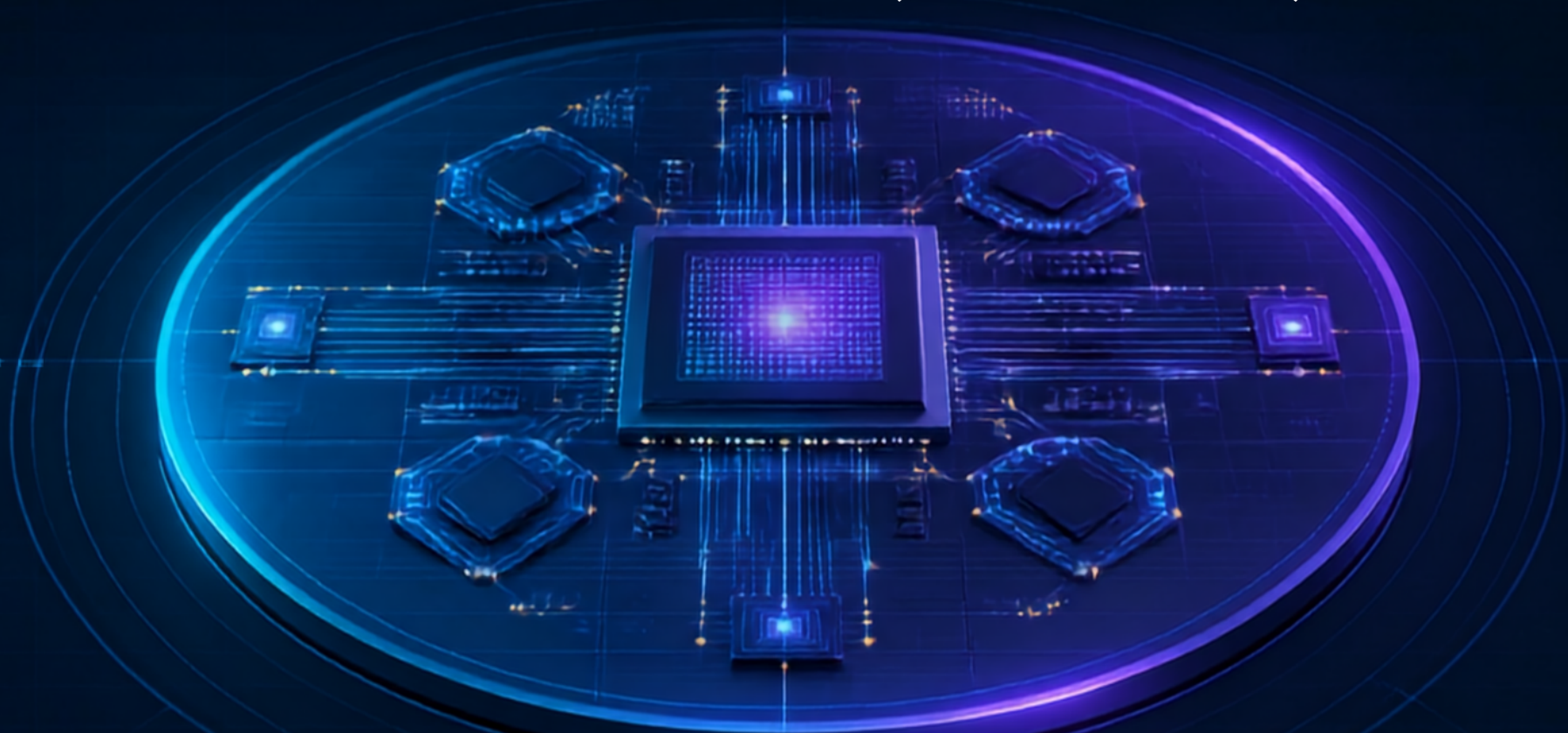


NEXUS-SEMICON

MUMBAI-CHANDIGARH

HYBRID MODEL LEARNING (ONLINE / OFFLINE)



INDEX

01

02

03

04

05

06

Postgraduate Certificate in Semiconductor Technology & Systems

Advanced Semiconductor Education • Industry Specialization • Research • Innovation

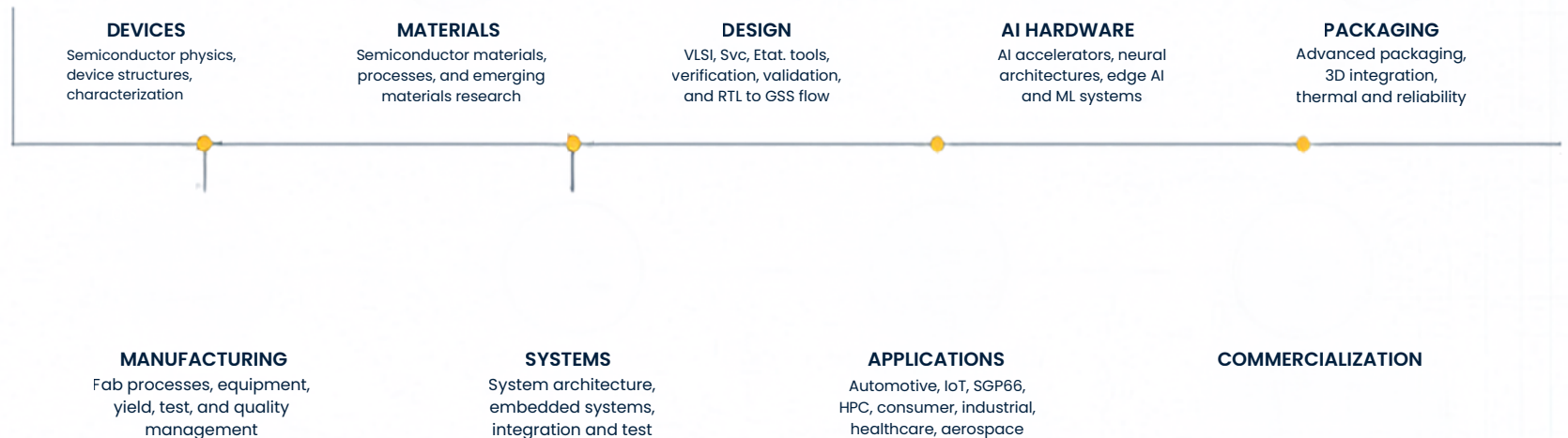
Buiding the Semiconductor Workforce of the Future

www.gndgu.com | Email: admissions@gndgu.com

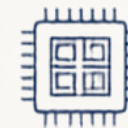
One program. The complete semiconductor ecosystem.

The Nexus-Semicon Postgraduate Certificate Program prepares the next generation of semiconductor engineers, technology professionals, researchers, and innovation leaders for the rapidly evolving global semiconductor ecosystem.

The program combines advanced semiconductor fundamentals, VLSI and SoC design, AI hardware, semiconductor materials, advanced packaging, research methodology, technology management, and industry-focused specialization.



Academic architecture: foundation to innovation

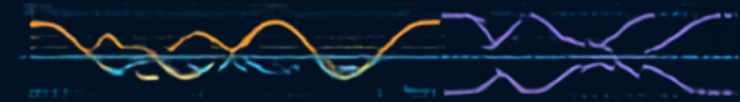


Year 1 Academic
Architecture

SEMESTER	Advanced Semiconductor Foundation + Specialization		25 CREDITS
1	CODE	CORE LEARNING	CREDITS
	SEM501	Advanced Semiconductor Devices	3
	SEM502	Advanced VLSI & SoC	3
	SEM503	Semiconductor AI & Intelligent Systems	3
	SEM504	Advanced Packaging & Integration	3
	SEM505	Advanced Semiconductor Materials	3
	SEM506	Research Methodology	2
	SEM507	Technology Strategy & Management	2
	PG SPECIALIZATION II	PG SPECIALIZATION III	3

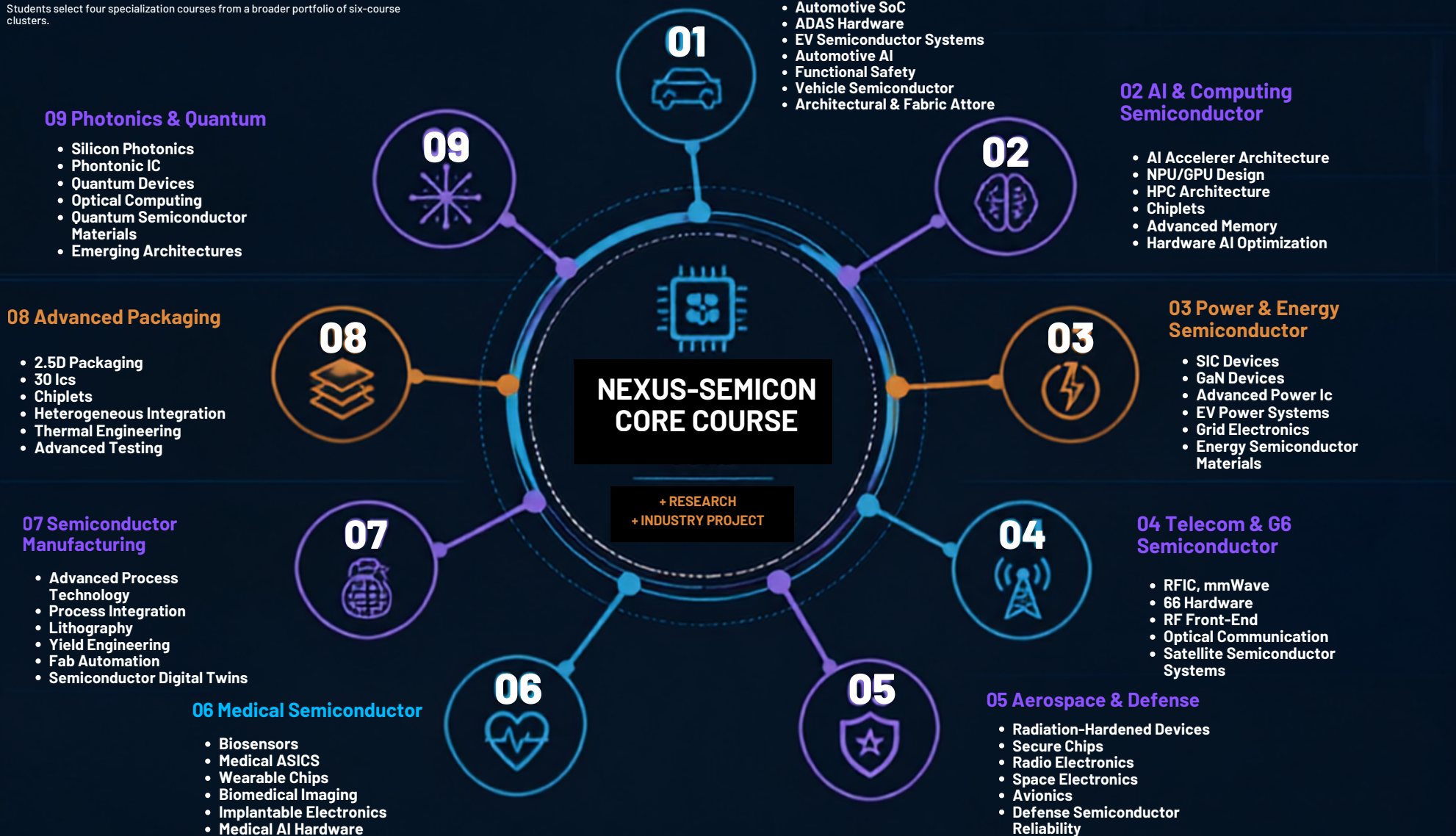
RESEARCH-TO-INDUSTRY
PROGRESSION

SEMESTER	Research + Industry Application + Innovation		28 CREDITS
2	CODE	CORE LEARNING	CREDITS
	SEM508	Advanced Research Seminar	6



Specialize where technology meets industry

Students select four specialization courses from a broader portfolio of six-course clusters.



POTENTIAL RESEARCH AREAS



advanced
devices



AI
accelerators



materials



chiplets



3D integration



SiC/GaN



automotive



RF/G6

radiation-hardened
electronics

medical
systems

silicon
photonics

quantum
technologies

Year 2: Earn While Learn

Learn. Work. Earn. Build. Get Industry Ready.

Eligible students enter structured, industry-connected internships while continuing postgraduate studies, research, project work, thesis and professional development.



₹7,500 per month

₹7,500 × 12 months = ₹90,000 potential annual learning-and-earning support, subject to the applicable internship/ employment arrangement and eligibility requirements.



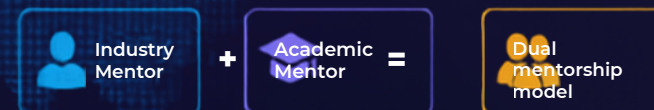
Year 2		
	Industry Internship	Paid industry experience
	Industry Research Project	Solve a real-world technology problem
	Advanced Seminar	Research presentation and knowledge sharing
	Thesis / Capstone	Advanced technical project
	Specialization	Deep domain expertise
	Technology Commercialization	Converting technology into impact



From semiconductor education to semiconductor employment



Dual mentorship model



Industry mentor: technical guidance, project supervision, workplace mentoring, industry exposure, performance feedback.

Academic mentor: academic supervision, research guidance, thesis supervision, assessment, academic quality assurance.

The NEXUS-SEMICON graduate

- Understand advanced semiconductor technologies; connect devices, materials, design, packaging and systems;
- apply technologies to industries;
- research emerging problems;
- design solutions and prototypes;
- evaluate architectures;
- collaborate across disciplines;
- innovate across the value chain;
- commercialize promising technologies and intellectual property.

Learn the technology. Understand the ecosystem. Specialize in an industry. Solve real problems. Build the future.



Design companies • Foundries • OSAT/ATMP • Materials • Automotive & EV • AI & Computing • Telecom • Energy • Aerospace & Defense • Medical Technology • Research Laboratories • Startups

NEXUS-SEMICON