Defence Institute of Advanced Technology

(Deemed to be University under section 3 of UGC Act 1956),

Girinagar, Pune-411025

Ph.D. Programmes- January-2027 Batch

Category - MoD Sponsored /Self Sponsored (DRDO, Tri-Services), Industry Sponsored /Industry Self-Sponsored, Other R&D Govt. Organizations & Academic Faculty from Institutes.

Applications are invited for admission to Ph.D. Programmes for the Session Jan-2027 as per description below.

A] Details of Department / School-wise vacancies for admission to Ph.D. Programme Jan-2027.

Sr. No	Department / School	Research Code	Subject / Research Area	Vacancy
1	Applied Chemistry, Energy and Environment.	PSK	Ionic Liquids, Hydrogen Generation & Combustion, Membrane Separation, Energy Storage, Wastewater Treatment, CO2 Sequestration	05
		SB	Energetic Materials, Propellants, Explosives, Nano energetic materials	
		CB	Organic Hybrid Nanomaterials, Nanocomposites, Catalysis, Biomaterials Characterization, Biomimecity, Hydrogels, Sol-Gel Synthesis, Mesoporous Materials	
		NB	Thermal Energy Storage, Hydrogen Combustion, production, storage, transportation, Bioenergy, Solar Energy.	
		RY	Solar Energy, Hydrogen storage and refueling, Thermal management in Aero and Defence Applications, CFD, Hybrid Energy Systems, Environment & Sustainability	
2	Computer Science & Engineering	AM	Cryptography, Post Quantum Cryptography, Blockchain, Secure Software Engg.	08
		CRS	AI, LLM, AR/VR	
		MN	Quantum ML, Embedded AI, Embedded Cyber Security, Responsible AI	
		SD	AI, CV, DL	
		BJ	Cyber security, Hardware security, Cloud Computing	
		DV	Language models, Cyber Security, NLP.	
3	Mechanical Engineering	AK	Indentation, Deformation behaviour, Impact Mechanics, Surface Engineering, Tribology, Avionics, FEM, Vibration	06
		SKP	Impact Mechanics, Repairing Technology, Damage Mechanics, Fracture Mechanics, Composite Structure, Stress Analysis	
		DGT	Composite material processing, Additive manufacturing, Micro Machining, Surface Engineering.	
		SC	CFD, Fluid Mechanics	
		SN	Composite Structures, Fracture mechanics, Functionally Graded Structures, Impact Mechanics	
		PMN	Heat transfer / Fluid Mechanics / Flow Control	
4	School of Quantum Technology	KRP	Cavity-enhanced squeezed light generation, Ultrafast lasers in quantum optics, QKD.	03
		KS	Tailoring the discrete and continuous variable quantum states of light, Development of multiqubit quantum sources for quantum technology and QKD	
		SK	Cold atom quantum sensing using atom interferometry, Rydberg electrometry using thermal atomic vapour.	
5	Applied Physics	Nil	Nil	Nil
6	Applied Mathematics	SKM	Applied Mathematics, Convection in Porous Media, Computational Numerical Method's for Differential Equations (AI / ML, Finite Element Method), Mathematical Modelling, Cryptography.	
		OO	Applied Maths / Any Branch of Engineering, Fluid Mechanics.	
		DS	Fluid Mechanics with AI & ML, Bio-Fluid Mathematics.	
		DP	AI / ML / Computer Science.	

		BR	Electronics and Communication Engineering, CSE Robotics.	04
		YD	Signal Processing, Machine Learning, Deep Learning.	
		SK	ML, DL, Fuzzy areas, Probability & Statistics.	
7	Electronics Engineering	AAB	Radar Systems, Radar Signal Processing, RF-Photonics, Image Processing, Laser Space, Communication, Real-Time DSP design using FPGA.	05
		BNM	High Speed Computing, Edge Computing, Navigation Systems, Acoustic Processing.	
		KKS	RF, Microwave, EMI/EMC Shielding material, Antenna Stealth Technology, UAV.	
		RKS	Antennas, RF & Microwave Circuits, RFID Wireless Power Transfer, Metamaterial.	
		BCM	ASIC Design, Quantum & Photonics, VLSI & Embedded System, Semiconductor Devices.	
8	School of Defence Technology & Management	SS	Behavioural Sciences, Aviation Management, Project Management.	02
		AN	Aviation Technology, Maritime Surveillance, Applied AI/ML in Technology & Management.	
9	Aerospace Engineering & Autonomous Systems	HV	Navigation, Guidance and Control of UAV / Aircraft / Missiles.	06
		AK	Structures, Vibrations, Digital Twins, Metamaterials	
		SS	Robot Dynamics, Nonlinear Control, VML, LLM.	
10	Metallurgical and Materials Engineering.	ST	High Entropy Alloys, High Temperature Materials, Control welding, Entropy Alloy	05
		HSP	Supercapacitor and battery type electrode materials, Piezoelectric materials, Composite materials, Stealth Materials, Thermal Batteries	
		VH	Additive manufacturing, Texture, Thermomechanical Processing of Metallic Materials Electrical Steel, Additive Frictions Stir Processing / Welding, Corrosion Behaviour in Metallic Materials	
		TUP	Polymer Nanocomposites for energy storage and water treatment, polyurethane foam for acoustic absorption and oil-water separation, and carbon foams for energy storage, Polymer blend structure property relationship, Polyurethane Synthesis.	

*** The number of vacancies is only indicative and DIAT reserves the right in this matter.**

B] Eligibility for External Part Time Research Scholar:

- A candidate seeking admission to the Ph.D. program, shall be required to have passed the qualifying examination securing at least 55% marks or equivalent CGPA/DGPA. A relaxation of 5 % of marks may be allowed for those belonging to SC/ST/OBC (non-creamy-layer) / PWD - (Divyang) categories. The qualifying degrees are: -

  a) Master of Engineering/Master of Technology (or equivalent).

  b) Master in Science (M.Sc. or equivalent).

  c) BE/B.Tech with 10 years of research/industrial experience for Ph.D. in Engineering / Science.

  d) For School of Defence Technology Management:
  i) ME/M.Tech/MBA/MS in relevant discipline. (Science/Engineering/Management)
  ii) BE/B.Tech with 10 years of research / Industrial experience

  e) A candidate who is sponsored as a part-time candidate by a government department / public sector undertaking / R & D, with at least five years of relevant experience, who shall work for his/her Ph.D. in his/her parent organization fulfilling the residency period requirement (if any) as per Rules & Regulations for the Award of the Degree of Doctor of Philosophy - 2016.

  f) Self-sponsored candidates from Industry/Academic Faculty members in regular position can be admitted in DIAT. The candidate from Industry should have minimum 5 years of Industrial work experience. The Academic Faculty members working in a regular position should have minimum 5 years of teaching experience. EPF/CPF number of Industry Employee / Academic Faculty member has to be provided with the application.

  g) The candidate is required to submit a NOC, sponsorship (if any) and work experience certificate from the parent organization. [Annexure I & J] with the application.

  ***Non submission of NOC, Sponsorship & work experience certificates in the prescribed proforma with an application form will not be considered.**

C] Course work:

The external part time Ph.D scholar has to complete the coursework either by selecting off-line courses and/or self-study courses and/or UGC recognized online course.

D] Last Date of Application:

A duly filled-in application in the prescribed proforma may be forwarded to the Joint Registrar (Academics), DIAT (DU), Girinagar, Pune-411025 to reach on or before **27th Nov 2026.**

E] Selection procedure:

Admission to Ph.D. will be based on the performance in the entrance exam (written test) conducted by the concerned department / school followed by a personal interview.

F] Course Fee & Other Charges:

MoD Sponsored (DRDO & Service Officers) & MoD Self-Sponsored (DRDO & Service Officers) Candidate: Selected candidates for the Ph.D programmes are required to pay Semester Fee @ Rs.50,000/- per semester, Rs. 6000/- as Admission fee and Caution deposit of Rs. 20,000/- payable immediately at the time of joining,

For Industry Sponsored, Other R&D Govt. Organisations, DPSU's, Govt. Industry etc: Selected candidates for the Ph.D programmes are required to pay Semester Fee @ Rs.65,000/- per semester, Rs. 6000/- as Admission fee and Caution deposit of Rs. 20,000/- payable immediately at the time of joining,

G] Important Dates:

- **Last Date of receipt of Hard copy of application** : **27th Nov 2026**
- **Tentative Date of Written Test** : **29th Dec 2026**
- **Tentative Date of Interview** : **30th Dec 2026**
- **Tentative date of commencement of the programme** : **3rd week of Jan 2027**