Campus	Program Name	List all Research Areas in which vacancies are there	Name of the Ph.D. Coordinator from the Dept	Amrita E Mail ID of the Ph.D. Coordinator from the Dept
2024 Ph. D. Program List				
Amaravati	Computer Science and Engineering	Health care domain, cryptography, Cyber security, IOT, Machine Learning, Explainable AI, Recommendation systems, NLP	Dr. M. Rajasekhar Reddy	m_rajasekharreddy@av.amrita.edu
	Electronics and Communication Engineering	Signal & Image processing, VLSI, Wireless communications,	Dr. Deepak Kumar Panda	p_deepakkumar@av.amrita.e
	Philosophy , English Language & Literature		Dr. S V B K Viswanatha	svbkvgupta@av.amrita.edu
	Mathematics	Numerical Analysis, Differential Equations, Partial Differential Equations, Mathematical Modelling, Generalized thermoelasticity, Numerical methods	Dr. Rashmi Prasad	p_rashmi@av.amrita.edu
Amritapuri	Computational & Cognitive Neuroscience Neural Engineering	Computational and Cognitive Neuroscience Neural Engineering	Dr. Asha Vijayan	pgpoffice_ambc@am.amrita.edu; ashavijayan@am.amrita.edu
	Internet Studies and Artificial Intelligence	Cyber Security, Internet studies, IOT, Big data, AI, Medical	Revathi	revathyrnair@am.amrita.edu
	Commerce and Management		Durgalashmi.C.V	durgalashmicv@am.amrita.e
	Electronics and Communication Engineering	Digital VLSI Radiofrequency and antenna engineering Photonics, optoelectronics and optical imaging Material science and applications Signal processing Communication Embedded systems Robotics, Control System, IoT and AI Machine learning and computer vision Intelligent Transportation Systems Agricultural Technology Non-Traditional Machining and Digital Manufacturing Flexible Electronics Landslide analysis Human-Robot Interaction Robotic Perception Robotic Learning Robotic Manipulation and Control Swarm Robotics Bio-inspired Robotics Robotic Systems Integration Assistive Robotics Robotic Hardware Design	Dr. Viswas S. Nair	viswassnair@am.amrita.edu
	Chemistry	Polymer nanocomposites Smart materials Electrochemical sensors Theoretical and Computational Chemistry Environmental science Photochemistry Inorganic chemistry	Dr. Saritha A Pillai	sarithaa@am.amrita.edu
	Physics	Earth, Atmospheric and Space Sciences Condensed matter, materials and device physics (theory and experimental) Astrophysics Modeling and simulation of complex physical systems	Jyotirmayee Satapathy	jyotirmayees@am.amrita.edu
	Cybersecurity	Mobile, Embedded and IoT Security AI & Cybersecurity Cryptography and Applications Cybersecurity Education Cyber Governance Risk and Compliance Quantum Computing and Security	Dr. Sriram Sankaran	srirams@am.amrita.edu
	Philosophy	Philosophy, Indian Culture, Sanskrit Education, Sanskrit Vyakarana	Dr. Padmakumar P R	padmakumarpr@am.amrita.edu

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Amritapuri	Electrical and Electronics Engineering	Digital twin for smart grid. Cyber resilience in Smart grids. Energy markets and peer to peer energy trading. EV integration in smart grids and ancillary services. Sustainable and green energy: Integration and impact analysis Optimal Energy management system for Microgrid with Energy storage and Electric vehicles Coordinated energy system with V2G support for isolated DC Microgrid Intelligent Energy transactions and policies for sustainable society Process Dynamics Systems, & Control Systems Data driven modelling and control of aerial vehicles Intelligent aerial vehicles Sustainable and resilient smart homes Control applications in Biomedical Engineering Automated drug infusion pumps Detection and prevention of Parkinson's Disease Model based Control systems Explainable AI based modelling AI based controller for grid integration in a smart microgrid system	Dr. Preetha P K, Dr. Anoop S	preethapk@am.amrita.edu, anoopsp@am.amrita.edu
	Mathematics	Probability Theory and Stochastic modelling, Theoretical computer science, Machine and Deep learning, Wavelet Analysis, Numerical Functional Analysis, Metric Fixed Point Theory, Physics informed Neural Networks	Dr. Manjusha R	manjushar@am.amrita.edu
	Computer Science and Engineering	Deep Learning, Computational Neuroscience, Complex Networks, Performance of Edge Networks, Cloud Network Infrastructure, Machine Learning, Medical Image Analysis, Computer Vision, Data Science, Awareness Computing, Pattern recognition, Text mining, Robotics, Program Analysis, Text Analytics, Optimization -Numerical Computation Software Engineering, Social Networks, Graph Mining, Computer Vision, Video Surveillance, Video Synopsis, Artificial Intelligence, Edge learning, Networking in Extreme Environments, Reinforcement Learning, Web Security, Cryptographic Protocols, Authentication, Scene Understanding and Image Retrieval, Assistive Technologies and Learning with Disabilities, Smart Farming, Probability Theory, Gaussian Processes, Smart Grid, Data Science, Power System , AI/ML applications in Interdisciplinary areas, Composites, Materials Informatics, Computational Materials Science, FEM Modelling, Fatigue and Fracture, Algorithm Design, Graph theory, Bioinformatics, Natural Language Processing, Algorithms, Natural Language Processing, Machine Learning, Deep Learning, Text Mining, Data Mining and Knowledge Discovery, Knowledge Graph, Graph Representation Learning	Dr Subhasri Duttagupta	subhasrid@am.amrita.edu
	Mechanical Engineering	Fuel Cell, CFD, Advanced Materials, Biofluid Mechanics, Robotics	Dr Vikas R	vikasrajan@am.amrita.edu
Bangalore	Mathematics	1. Finite Element Method 2. Computational Sciences 3. Graph Theory 4. Fluid Mechanics 5. Optimization Technique 6. Mathematical Logics 7. Mathematical Modelling 8. Fluid Dynamics 9. Heat and Mass transfer 10. Numerical technique	Dr. Mullai Venthan SELVAM	s_mullai11@blr.amrita.edu
	Chemistry	Polymers, Computational chemistry, Nanotechnology, Solar OLED, Batteries	Dr Amrita Thakur (Chemistry), Dr Kumar Swamy GN (Physics)	t_amrita@blr.amrita.edu, gnk_swamy@blr.amrita.edu

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Bangalore	Electronics and Communication Engineering	VLSI Design (Both Analog and Digital VLSI) Digital Communication Wireless Communication Signal Processing Image Processing Artificial Intelligence Internet of Things Network on Chip RF Engineering and Communication	Dr. GANAPATHI HEGDE	ganapathi_hegde@blr.amrita.edu
	Mechanical Engineering	Smart and Advanced Manufacturing Artificial Intelligence & Machine Learning Robotics, Automation and IoT Product Lifecycle Management Product Development and Concurrent Engineering Supply Chain Management Composite and Advanced Materials Tribology Kinematics and Dynamics of Multi-body Systems Computational Mechanics and Simulation Environmental Engineering Renewable Energy and Sustainable Technologies Heat Transfer Automobile Technology	Dr. Prashanth B N	bn_prashanth@blr.amrita.edu
	Electrical and Electronics Engineering	e-Mobility Smart Grid Control Systems Biomedical applications Signal and Image Processing	Dr. Surekha Paneerselvam	p_surekha@blr.amrita.edu
Chennai	Computer Science and Engineering	AI, ML, DL, Computer Vision, NLP, Image Processing, IoT, Gen.AI, Cloud Computing etc...	Dr.Suthir Sriram	s_suthir@ch.amrita.edu
	Mechanical Engineering	Tribology in Electric Vehicles Tribology in Energy efficient lubricants Tribology in Polymers Material Degradation and Material Design Acoustic and Friction Mapping of Mechanical Elements Structural Failure Modling Human robot interaction for cooperative manipulation "(i) Advanced Metal Joining Techniques (ii) Additive Manufacturing of Advanced Materials (iii) High Entropy Alloys" (a) Design for additive manufacturing (b) Development of lightweight structures Acoustic data to predict bearing faults Assess performance of bearing Bio inspired structures Noise Reduction in Robotic Manipulators Using AI Characterization of materials for Construction waste management IoT design for improving Indoor air Quality and Thermal comfort AI identification for material machining setup Wear behaviour of 3D printed biomaterials Development of thin Film for biomedical application	Dr. Krishnadas N	kn_nampoothiri@ch.amrita.edu
	Chemistry	Nanomaterials, Materials science, Energy materials chemistry, Environmental chemistry, Physical Chemistry, Organic chemistry	Khushbu Dash	d_khushbu@ch.amrita.edu
	Mathematics	Pure Mathematics, Applied Mathematics, Computational Mathematics	Khushbu Dash	d_khushbu@ch.amrita.edu
	Electronics and Communication Engineering	Bio signal processing, Image processing, Non linear dynamics, Steganography & Cryptography, Machine learning and deep learning, VLSI Design (Both Analog and Digital VLSI), Digital Communication, Wireless Communication, Signal Processing, Artificial Intelligence, Internet of Things, Network on Chip, RF Engineering and Communication, Nanotechnology, Bio Sensor design and fabrication, Rf circuit design, Antenna design, Wireless communications (5G), Internet of things (IOT)	Dr P Mathivanan	p_mathivanan@ch.amrita.edu
	PHYSICS	Condensed Matter Physics, Chemical Physics, Biophysics, Engineering Physics, Computational Physics	Khushbu Dash	d_khushbu@ch.amrita.edu

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Coimbatore	Chemical Engineering and Materials Science	Energy Materials, Bio Materials, Catalysis, Water Treatment, Polymer Nanocomposites, Membrane Technology, Renewable Energy, Solar energy, Hydrogen Generation, Fuel Cells, Sustainable Materials, Environmental Engg and Management, Environmental Science, Polymer Recycling	Dr. K. Jayanarayanan	kj_narayanan@cb.amrita.edu
	Social and Behavioural Sciences	Child Rights and Child Protection Violence against Women and Children Migration and Children in Migration Emotional and Behavioural problems of children Community Organization- Community Based Interventions Disaster Management Public Health Mental Health and Interventions in Women, children and Adolescents and Vulnerable communities Corporate Social Responsibility Work Life Balance in Social Sector and Corporate World Social Progress and Social Policy Participatory Action Research on Rural problems Youth Empowerment Women Empowerment GIS and Rural Development	Dr. Priya V	v_priya@cb.amrita.edu
	Chemistry	Biochemistry Biosensors, Lab-on-a-Chip devices, Paper analytical devices, nanomaterials, immunosensors, microfluidics, lab-on-a-chip devices, wearable devices, organ-on-a-chip devices, medical textiles, inorganic materials and their coatings for antimicrobial activity, and the synthesis of biomaterials. Bioorganic Chemistry Synthesis of chalcones and chromones, substituted imidazoles to counteract cancer cell viability: Synthesis and Biological Evaluation, Design, and Synthesis of Drug-Releasing Polymers. Synthesis of Sequence-Defined Glycine Based Peptoid Oligomers, Evaluation of Biological applications of Triazolium-based Room Temperature Ionic Liquids: development of an Optical Biosensor, and Drug chemistry with 1,2,3-triazole Environmental Chemistry Polymers for dye/metal ions adsorption, Metal organic frameworks for environmental remediation, and corrosion-resistant coatings, Food chemistry, and Natural Fiber chemistry	Dr Venkata Ravikumar D and Dr Elango K	vrk_darbha@cb.amrita.edu and k_elango@cb.amrita.edu
	Aerospace	1. Aero Structures 2. Composites 3. Fluid Structure interaction 4. Aero Propulsion 5. Aerodynamics 6. CFD 7. UAV 8. Guidance and Control	Dr Sakthivel Thangavel	t_sakthivel@cb.amrita.edu
	English Language and Literature	Gender Studies, English Language Teaching, Dalit Narratives, Indian English Writing, Regional Indian Cinema, Climate Fiction, War and Trauma Literature, Regional Indian Literature, Queer Studies, Graphic Narratives, Post-Colonial Fiction, Children's Literature	Dr. Sandhya V	v_sandhya@cb.amrita.edu

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Coimbatore	Civil Engineering	Environmental Engineering stream (Vacancy : 2 full time candidates) 1.Advanced oxidation process for water treatment 2. Emerging contaminant treatment 3. Sustainable water and waste management 4. Nano material for water treatment 5. Environmental Engineering 6. Sustainable technologies for carbon capture Structural Engineering (Vacancy : 2 full time candidates) 1. Earthquake engineering; 2. Reinforced Concrete design; 3. Resilience-based design; 4. Performance-based design; 5. Experimental Investigation of seismic Behavior: Buildings/Bridges using shaketable; Geotechnical Engineering (Vacancy : 2 full time candidates) 1. Blast analysis of geotechnical structures 2. Experimental study on pavement shakedown	Dr.C.Prakash	c_prakash@cb.amrita.edu

	Electronics and Communication Engineering	Artificial Intelligence / Machine Learning
		    •Machine Learning and Cryptographic Algorithms
		    •Machine Learning for Multispectral/Hyperspectral Image Classification
		    •Machine Learning/ Artificial Intelligence Based Approaches for System Design and Failure
		        Detection.
		    •Machine Learning for Biomedical and Remote Sensing Applications
		Circuits and VLSI
		    •VLSI Design and Testing
		    •VLSI Testing and Diagnosis
		    •Low Power VLSI, Optimization Algorithms
		    •Static Timing Analysis, Hardware Security and Trust
		    •FPGA Based System Design
		    •Reconfigurable Design
		    •VLSI Architectures
		    •Biomedical circuits and Instrumentation
		Communication Engineering
		    •Wireless Communications
		    •Wireless Security
		    •Multiple Access Techniques
		    •Wireless Sensor Networks
			Dr J P Anita	jp_anita@cb.amrita.edu

	PHYSICS	Materials Physics: Electrochemical Energy Storage Devices, Energy Conversion: Hydrovoltaic, Solar cell, Photo Detectors, Ceramics, Bio-Materials, Materials for Energy applications, Nanomaterials synthesis and Characterizations, Theoretical Physics: Theoretical Nuclear Physics, Neutron Stars, Quantum Theory, Quantum Technologies with Ultracold Atoms in Optical Lattices; AI-Enhanced Design of Photonic Crystal Fibers for Supercontinuum Generation	M. ULAGANATHAN	m_ulaganathan@cb.amrita.edu
	Artificial Intelligence	AI for Biomedical Signal and Image Processing Rehabilitation and Medical Robotics AI for Power, Energy and Electrification AI for Material Design and discovery AI for Material Informatics NLP for material design Interpretable and Explainable ML models AI in Autonomous Diagnosis and Biomolecular Prediction Audio and Image Processing Sensor based Threats in Smart Devices Intrusion Detection and Authentication Integration of AI with photonics	V Sowmya	v_sowmya@cb.amrita.edu
	Food Science and Nutrition	Food Microbiology, Food Biotechnology, New Food Product development, Food chemistry, Proteomics, Protein study, Natural plant extraction, bioactive compounds, nutraceuticals, therapeutic nutrition	Dr.N.Tharani Devi	n_tharanidevi@cb.amrita.edu

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Coimbatore	Electrical and Electronics Engineering	Smart Grid - Data Analytics,Communication, Micro grid, Energy management; Electric Vehicle - Charging Infrastructure, Protocols & Systems, Communication and Networks, IoT/Sensor Networks and AI/ML applications, Embedded Systems - Robotics, RTOS, Automotive Electronics, Embedded System Design. Low power embedded application development, Power-performance optimization of real time embedded systems, Embedded solutions to health care systems, IoT/AI/ML applications for real-time embedded systems, Wireless sensor networks, Techniques for low carbon emission-towards sustainable environment and Electric vehicles Machine learning and Deep learning Applications in Electric Vechicles with renewable energy,Smart home with EV Multi modal Signal Processing Smart Power Systems, Cyber Attack Impact Analysis, DC-DC Converter topology development, Energy Storage (Fuel Cell/Battery/Supercapacitor) Systems (EV and micro-grid), and Special Electrical Machine Design (BLDC/PMSM). Power System Operation and Control; Smart Grid, Deregulated Power System; Power System Protection; Data	Dr.Supriya.P	p_supriya@ cb.amrita.edu
	Mechanical Engineering	1. Robotics and Automation 2. Sustainable Energy Technologies : Wind turbines, Spray modeling, H2/NH3 combustion, Battery Modeling etc. 3. Computational Non-linear Dynamics 4. Computational Solid Mechanics 5. Intergrated Machine Health Monitoring 6. Materials Research	V. Ratna Kishore	v_ratnakishore@cb.amrita.edu
	Communication	No vacancies at the moment. We undertake students from the areas of Film Studies, Development COmmunication, Marketing research, development communication, health communication, e-goverance, Broadcast media, new media, social media research, among others. But currently all guides are full as we have only 3 supervisors. The maximum we can take at this moment is 1 scholar.	Dr. Jayakrishnan N	n_jayakrishnan@cb.amrita.edu
	Computer Science and Engineering	Evolutionary algorithms, Network and Cyber security, Image processing, Machine learning, Real-time systems	Dr. Remyakrishnan P	p_remyakrishnan@cb.amrita.edu
	Mathematics	Mathematics, Statistics, Computer Science, Data Science	Dr. Vinod Kumar	a_vinodkumar@cb.amrita.edu
	Environmental Science	Natural Resources Management - 1, Sustainable Development - 1, Biodiversity Conservation - 1 , Climate Change - 1, Waste Management - 1, Community Development - 1	Dr. S. Rajendra Kumar	s_rajendrakumar@cb.amrita.edu
	Philosophy	Indian Knowledge Systems, Empirical and Theoretical Basis of Yoga, Traditional and Ritual Lineage of Bharat, Vedanta and Allied Shastras, Jyothisha	Dr. Sushrutha. S	s_sushrutha@cb.aedu.in
	Cybersecurity	applied cryptography, network security, systems security	Chungath Srinivasan	c_srinivasan@cb.amrita.edu