2025 Ph.D. Program List: Research Areas and Vacancies

AMRITA VISHWA VIDYAPEETHAM

AMARAVATI CAMPUS

Faculty of Arts, Humanities and Commerce

Program: Philosophy

- **Research Areas:** Indian Philosophy, Sanskrit, Indian Knowledge System (IKS), Vedic studies, Applied Ayurveda, Indian Aesthetics, Translation Studies, Philosophy of Language.
- **Coordinator:** Dr. S V B K V GUPTA (svbkvgupta@av.amrita.edu)

Program: English Language & Literature

- **Research Areas:** English Language and Literature and Interdisciplinary studies, Film Studies, Popular Culture, Cultural Studies, Literature.
- **Coordinator:** Dr. Ram Chandra Kalluri (k_ramchandra@av.amrita.edu)

Faculty of Computing / Engineering

Program: Computer Science & Engineering / Electronics & Communication Engineering

- **Research Areas:** Recommendation Systems, Machine Learning, Deep Learning, Big Data Analytics, Domain Adaptation, Under Water Communications, WSN, Computer Networks, Computer Vision, Artificial Intelligence, Bioinformatics and Computational Biology, Quantum Computing, Data Science, Biological Data Analysis using Machine Learning and Deep Learning, Machine Intelligence, Intrusion detection, Explainable AI, Natural Language Processing. Lithium-ion battery modelling, parameters estimation of lithium-ion batteries, Image processing, Embedded systems, AI, Wireless Communications, Signal and Image Processing.
- **Coordinators:** Dr. V Lakshmi Chetana (s_lakshmichetana@av.amrita.edu) / Dr. Deepak Kumar Panda (p_deepakkumar@av.amrita.edu)

Faculty of Management

Program: Management

- **Research Areas:** Marketing, OB/ HR, Operations, Services Management.
- **Coordinator:** Santanu Mandal (santanu.mandal@av.amrita.edu)

Faculty of Physical Sciences

Program: Mathematics

- **Research Areas:** Computer Algebra, Numerical Analysis, Mathematical Modelling, Computational Finance, Differential Equation, Numerical Analysis, Solid mechanics, generalized thermoelectricity, Wave propagation, Variational principle, Computer Algebra (Symbolic Algorithms for Differential Equations), Numerical Analysis (Root-Finding Algorithms), Mathematical Modelling (Ecology).
- **Coordinator:** Dr. V. M. K. Prasad Goura (g_vmkprasad@av.amrita.edu)

AMRITAPURI CAMPUS

Faculty of Arts, Humanities and Commerce

Program: Philosophy

- **Research Areas:** Philosophy (general), Yoga, Vedanta, Environmental Ethics, Ethics (general), Philosophical Counselling, Sanskrit Vyakarana, Sanskrit Education.
- **Coordinator:** Dr. Padmakumar P R (padmakumarpr@am.amrita.edu)

Faculty of Computing

Program: Computer Science

- **Research Areas:** Deep Learning, Computational Neuroscience, Complex Networks, Performance of Edge Networks, Cloud Network Infrastructure, Machine Learning, Medical Image Analysis, Computer Vision, Algorithms, Program analysis, Concurrency, Formal methods, Computer Vision, Video Analytics, Awareness Computing, Pattern recognition, Text mining, Robotics, Bioinformatics, Program Analysis, Text Analytics, Optimization - Numerical Computation, Remote Sensing, Image Analysis, Deep Learning, Software Engineering, Data Science, Digital Transformation for Education, Persons with Disabilities, Learning Difficulties, Preventive Healthcare, Artificial Intelligence, Edge learning, Networking in Extreme Environments, Reinforcement Learning, Video Surveillance, Video Synopsis, Web Security, Cryptographic Protocols, Authentication, Social Networks, Graph Mining, Scene Understanding and Image Retrieval, Assistive Technologies and Learning with Disabilities, Smart Farming, Probability Theory, Gaussian Processes, Artificial Intelligence, Smart Grid, Data Science, Power System, AI/ML applications in Interdisciplinary areas, Composites, Materials Informatics, Computational Materials Science, FEM Modelling, Fatigue and Fracture, Contextual Based System, Health Care System for Elderly; Kids using AI, Intelligent Systems in Agricultural Domain, Knowledge Based System using Semantic Web Technologies; Knowledge Graphs, Recommendation and Prediction using Machine Learning and Deep Neural Networks, Text Analysis using NLP, Algorithm Design, Graph theory, Natural Language Processing, Data Mining and Knowledge Discovery, Knowledge Graph, Graph Representation Learning, Speech Processing for medical applications using

Machine Learning and Deep learning approaches, AR-based interventions for Parkinson's Disease can enhance motor function, balance, coordination, attention, memory, problem-solving, and provide real-time patient monitoring.

- **Coordinator:** Dr. Subhasri Duttagupta (subhasrid@am.amrita.edu)

Faculty of Engineering

Program: Wireless Networks & Applications (IoT, 5G/6G)

- **Research Areas:** Wireless Networks & Applications (IoT, 5G/6G), Geoinformatics and Earth Sciences, Multi Hazard Monitoring Systems, Biomedical and AI for Health, Wearable Health Sensors, Natural Language Processing and Linguistics, Imaging and Computational Mathematics, Augmented and Virtual Reality, Fiber optics & communication, RF and Microwave Sensors, Communications and Systems, Intelligent Infrastructures: Agri, Cities, Power, Water and Sustainability.
- **Coordinator:** Rahul Krishnan (rahulkrishnan@am.amrita.edu)

Program: Geoinformatics and Earth Sciences

- **Research Areas:** Wireless Networks & Applications (IoT, 5G/6G), Geoinformatics and Earth Sciences, Multi Hazard Monitoring Systems, Biomedical and AI for Health, Wearable Health Sensors, Natural Language Processing and Linguistics, Imaging and Computational Mathematics, Augmented and Virtual Reality, Fiber optics & communication, RF and Microwave Sensors, Communications and Systems, Intelligent Infrastructures: Agri, Cities, Power, Water and Sustainability.
- **Coordinator:** Rahul Krishnan (rahulkrishnan@am.amrita.edu)

Program: Biomedical Engineering and AI

- **Research Areas:** Wireless Networks & Applications (IoT, 5G/6G), Geoinformatics and Earth Sciences, Multi Hazard Monitoring Systems, Biomedical and AI for Health, Wearable Health Sensors, Natural Language Processing and Linguistics, Imaging and Computational Mathematics, Augmented and Virtual Reality, Fiber optics & communication, RF and Microwave Sensors, Communications and Systems, Intelligent Infrastructures: Agri, Cities, Power, Water and Sustainability.
- **Coordinator:** Rahul Krishnan (rahulkrishnan@am.amrita.edu)

Program: Electrical and Electronics Engineering

- **Research Areas:** Computational Neuroscience, Pathway modelling, Neuroengineering, Smart grids and Electric vehicles, AI and IoT applications in Power system, Energy storage systems, Robotics, Control and Automation, Biomedical applications with focus on, but not limited to AI based Nonlinear Modelling and Control. Mathematical modelling of dynamic systems and control algorithms. Energy storage in smartgrid, Electric vehicles, Renewable

energy sources, energy management. Microgrids (AC, DC and hybrid) and smart grids-stability and control, AI applications in dynamic load balancing in multiple EV and industrial drone based charging system, Optimization in multi-vehicle power transfer, Development of Adaptive Control Strategies for Multi-Port EV Fast Charging Systems with Vehicle-to-Grid (V2G) Capabilities, AI-Driven Predictive Energy Management for EVs, Quantum Computing for Real-Time EV Energy Management Optimization, AI-Driven Secure and Decentralized Energy Trading for EVs in Smart Grids, Renewable energy integration, Power quality, Smart grid, Electric Vehicles. Smart microgrid Systems with AI & IoT based Applications, Control applications in biomedical engineering, Process Dynamics & Control System, FACTS & Power Quality Filters in Smart Grid, Renewable Energy Integration and Stability in Electric Grids.

- **Coordinators:** Dr. Asha Vijayan / Dr. Divya R. / Dr. Pramod C. P. (ashavijayan@am.amrita.edu, divyarnair@am.amrita.edu, pramodcpu@am.amrita.edu)

Program: Electronics & Communication Engineering

- **Research Areas:** Analog and Digital VLSI, Embedded systems and robotics, Signal processing and Communication, Machine learning and computer vision, Electronic materials, RF and Photonics.
- **Coordinator:** Dr. Viswas S. Nair (viswassnair@am.amrita.edu)

Program: Mechanical Engineering

- **Research Areas:** WAVE DYNAMICS, ROBOTICS, Thermal and Fluid, Advanced Materials.
- **Coordinator:** Dr. Vikas R (vikasrajan@am.amrita.edu)

Faculty of Interdisciplinary Studies

Program: Interdisciplinary Studies

- **Research Areas:** Any research areas available at Amrita and can be in any of the Amrita campus.
- **Coordinator:** Sreejith Kumar S (ispgpoffice@amrita.edu)

Faculty of Life Sciences

Program: Computational & Cognitive Neuroscience

- **Research Areas:** Computational Neuroscience, Pathway modeling, Neuroengineering.
- **Coordinator:** Dr. Asha Vijayan (ashavijayan@am.amrita.edu)

Program: Biotechnology

- **Research Areas:** AG Areas: Stem Cell & Regenerative Biology, Developmental Biology, Systems Genomics, Antimicrobial Resistance, Proteomics and Biomarker Discovery, Cancer

Biology, Glycobiology, Natural Product Lead Discovery, Bioinformatics, Sanitation Biotechnology, Bioconjugate Chemistry, Biomolecular Chemistry, Venomics.

- **Coordinator:** Purnima (asbt-phd-office@am.amrita.edu)

Faculty of Physical Sciences

Program: Physics / Chemistry / Mathematics

- **Research Areas (Physics):** Quantum Metrology, Oxide thin films, Thermoelectric Materials, Green energy harvesting, Multiferroic and Ferroelectric materials.
- **Research Areas (Chemistry):** Electrochemical sensors, Polymer nanocomposites, Environmental Science, Organic Chemistry, Inorganic Chemistry, Computational Chemistry.
- **Research Areas (Mathematics):** Stochastic Modelling and Analysis, Number Theory, Semi-group Theory, Machine Learning and Deep learning, Physics informed Neural Networks, Metric Fixed Point Theory, Stochastic modelling and distribution theory, Inverse problems, ill-posed problems, and numerical analysis, Numerical Functional Analysis, Theoretical computer science.
- **Coordinators:** Jyotirmayee Satapathy (jyotirmayees@am.amrita.edu) / Dr. Saritha A (sarithaa@am.amrita.edu) / Dr. Manjusha R (manjushar@am.amrita.edu)

Faculty of Social and Behavioural Sciences

Program: Cognitive Sciences and Technology / Social and Behavioural Sciences / Social Sciences and Technology

- **Research Areas:** Technologies and education for sustainable development in schools, Livelihoods based VET, AI and Ethics, Social Acceptance testing of new emerging vaccines, Child Rights and Child Protection, Human Resource Management, Corporate Social Responsibility, Mental health and well-being, Cognitive Science informed design and development of technology supported (IoT, Social IoT, AI, ML, DL, VR/AR) Learning Environments, Health & Wellbeing, Spirituality in social work & Self-development, Digital Education, Gender-Based Violence, Social Policy and Legislation, Migration Innovation Systems, Participatory governance, citizen empowerment, Machine learning for textual data analysis.
- **Coordinator:** Gouri KanthaLatha Ekkirala (gouri.ekkirala@ammachilabs.org)

BENGALURU CAMPUS

Faculty of Sustainable Futures

Program: Sustainable Development

- **Research Areas:** Climate Change & Resilience, Water Sustainability, Energy Sustainability, Sustainable Agriculture & Livelihood, Waste Management & Waste to Wealth for Social Good, Education: Pedagogy & Technology, Healthcare Access, ICT Solutions for Communities, Marine Ecosystem & Blue Economy, Living Culture & Heritage & Intangible Culture & Heritage.
- **Coordinator:** Sreejith Kumar S (ispgpoffice@amrita.edu, asfoffice@am.amrita.edu)

Faculty of Arts, Humanities and Commerce

Program: English Language & Literature

- **Research Areas:** Postcolonial Studies & Culture and Gender Studies.
- **Coordinator:** Revathy Hemachandran (h_revathy@blr.amrita.edu)

Program: Philosophy

- **Research Areas:** Sanskrit Studies, Manuscriptology, Epics, Archaeology, Sacred Landscape, Cultural Studies, AI.
- **Coordinator:** Dr. Manish Rajan Walvekar (r_manish@blr.amrita.edu)

Faculty of Computing

Program: Computer Science Engineering

- **Research Areas:** Complex Systems & Time Series Analysis, Healthcare & Clinical Data Analytics, Financial Data Analytics & Risk Modelling, Speech Processing & Natural Language Processing (NLP), Power System Dynamics & Microgrid Protection, Data-Driven Modelling & Control Systems, Machine Learning, Deep Learning & Reinforcement Learning, Computer Vision & Video Analytics, Eye Tracking & Human-Computer Interaction, Document Processing & Text Mining, Green Cloud Computing & Sustainable AI, Blockchain, IoT & Edge/Fog Computing, Emotion Recognition & Human-Robot Interaction, AI in Healthcare, Smart Cities & Agriculture, Digital Twin Technologies & AI Applications, Cybersecurity & Cryptography with AI, Remote Sensing & Hyperspectral Image Analysis, Electronic Design Automation & Heterogeneous Computing, Computational Intelligence for Resource Management, Scientific Machine Learning & Physics-Informed AI, Aerospace Applications & Aerial Robotics, Drug Discovery & AI in Genomics & Proteomics, Federated Learning & Edge AI, Robotics for Rehabilitation & Biomedical Applications, Parallel Computing & AI Hardware Implementations.
- **Coordinator:** Dr. Thangam S (s_thangam@blr.amrita.edu)

Faculty of Engineering

Program: Electrical and Electronics Engineering

- **Research Areas:** Power Systems, Power Quality Analysis and Mitigation Techniques in Power System, Signal Processing, High Voltage Engineering, Power Electronic Applications in Power System, Power Quality, Smart Grid and Electric Vehicle, Soft Computing Applications in Power Systems, Power Electronics for Renewable Energy Applications, Control design of Renewable Energy Resources in Grid and Micro Grid Operation, Battery Management System, Modern Control Systems, Biomedical signal and image processing, AI/ML/DL in all the above areas.
- **Coordinator:** Dr. Surekha Paneerselvam (p_surekha@blr.amrita.edu)

Program: Mechanical Engineering

- **Research Areas:** 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.
- **Coordinator:** Dr. Prashanth B N (bn_prashanth@blr.amrita.edu)

Program: Electronics & Communication Engineering

- **Research Areas:** Broad Areas: Wireless Communication, Biomedical Signal Processing, IoT, Artificial Intelligence, VLSI Arithmetic, Low Power VLSI Design, Embedded Systems, VLSI Signal Processing, VLSI Architectures, Device Physics, FPGA Design, Robotics Engineering, Communication Engineering, VLSI Devices, Signal Processing, Image Processing.
- **Coordinator:** Dr. GANAPATHI HEGDE (ganapathi_hegde@blr.amrita.edu)

Faculty of Management

Program: Management

- **Research Areas:** Marketing, Operations, Finance.
- **Coordinator:** Dr. Angan Sengupta (a_sengupta@blr.amrita.edu)

Faculty of Physical Sciences

Program: Mathematics

- **Research Areas:** Finite Element Method, Numerical Methods, Optimization Technique, Mathematical Logics, Graph Theory, Fluid Mechanics, Fluid Dynamics, Mathematical Modelling, Computational Mathematics, Real Analysis.
- **Coordinator:** Dr. Mullai Venthan SELVAM (s_mullai11@blr.amrita.edu)

Program: Chemistry

- **Research Areas:** Drug Delivery, Analytical method development, Water technology, Crystallography.
- **Coordinator:** Amrita Thakur (t_amrita@blr.amrita.edu)

Program: Physics

- **Research Areas:** Battery materials both experimental and Computational, Nanophosphors, Theoretical Physics.
- **Coordinator:** Dr. G. N. Kumaraswamy (gnk_swamy@blr.amrita.edu)

CHENNAI CAMPUS

Faculty of Computing

Program: Computer Science & Engineering

- **Research Areas:** AI, ML, Cyber, DL, IoT, BigData.
- **Coordinator:** Suthir (s_suthir@ch.amrita.edu)

Faculty of Engineering

Program: Mechanical Engineering

- **Research Areas:** Human robot interaction, Process modelling and evaluation using ML, Tribological properties of Electric Vehicle Bearing Greases, Tribological properties of Polymer, Tribological properties of Green Lubricants, Advanced Metal Joining Techniques, Additive Manufacturing of Advanced Materials, High Entropy Alloys, Design for additive manufacturing, 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, Droplet Microfluidics for Point-of-Care Devices, Energy Harvesting using microfluidic techniques, Thermal management using microfluidics, Industrial Engineering; Supply Chain Management, Advanced Manufacturing Systems, Metal Additive Manufacturing, Biocompatibility study of Additively manufactured specimens.
- **Coordinator:** Dr. Krishnadas Narayanan Nampoothiri (kn_nampoothiri@ch.amrita.edu)

Program: Electronics & Communication Engineering

- **Research Areas:** VLSI, Embedded system, Machine Learning, Deep learning, Signal Processing, RF and Microwave, Antenna, Wireless Communication, Sensor Fabrication.
- **Coordinator:** Dr. P Mathivanan (p_mathivanan@ch.amrita.edu)

Faculty of Physical Sciences

Program: Chemistry / Physics / Mathematics

- **Research Areas (Chemistry):** Sustainable materials, Carbon sequestration, new age batteries and supercapacitors, High performance hybrid materials, Advanced metal composites and alloys.
- **Research Areas (Physics):** Condensed matter physics, Engineering physics, Computational Physics and metallurgy.
- **Research Areas (Mathematics):** Pure mathematics, Applied mathematics, Computational Mathematics.
- **Coordinator:** Khushbu Dash (d_khushbu@ch.amrita.edu)

COIMBATORE CAMPUS

Faculty of Agricultural Sciences

Program: Agronomy

- **Research Areas:** Agronomy.
- **Coordinator:** Dr. Sudheesh (sudheeshmv@amrita.edu)

Faculty of Artificial Intelligence

Program: Artificial Intelligence

- **Research Areas:** AI for Computational Biology and Bioinformatics (AICBBIO), AI for Multimodal Data (Speech, Text, Image) Analysis (Applications in Healthcare, Power Systems, Agriculture), AI for Applied Energy, Mechanics & Material Science, Theoretical and Experimental Machine Intelligence (TexMI), Biomedical Instrumentation and Research, AI Innovations in Power, Energy, and Electric Vehicles, EINS - Emergent Intelligence in Networked Systems.
- **Coordinator:** V. Sowmya (v_sowmya@cb.amrita.edu)

Faculty of Arts, Humanities and Commerce

Program: English Language & Literature

- **Research Areas:** Literary Theory & Criticism, Linguistics, English Language Teaching, Learning, Evaluation, Pedagogy, Curriculum Design, Language Acquisition, Literacy Development, Technology & social media in ELT, Indian writing in English, Children's Literature, Folk Studies, Graphic Narratives, Disability Studies, Sleep Studies, Addiction Studies, Mind Studies, Bereavement Studies, Film Theory and Criticism, Popular culture, Regional Indian literature and cinema, Gender Studies, Culture Studies, Life Narratives,

Queer Studies, Postmodern Literature, Postcolonial Writings, New Literatures, Digital Humanities, British Drama, War Literature, Trauma Studies, Canadian Poetry, Dalit Literature, Eco Criticism, Diasporic Writing, Translation Studies, Comparative Literature, Climate narratives, Memory Narratives, Food Studies.

- **Coordinator:** Dr. Sandhya V (v_sandhya@cb.amrita.edu)

Program: Mass Communication

- **Research Areas:** Development communication, Sustainability research, culture studies and media, Film Studies, E-Governance, Marketing and advertising, Gender studies.
- **Coordinator:** Dr. Jayakrishnan N (n_jayakrishnan@cb.amrita.edu)

Faculty of Computing

Program: Computer Science & Engineering

- **Research Areas:** Network security, Evolutionary Algorithms, image processing, Software Engineering, Design Algorithms.
- **Coordinator:** Dr. Remyakrishnan P (p_remyakrishnan@cb.amrita.edu)

Faculty of Engineering

Program: Civil Engineering

- **Research Areas:** Structural Engineering, Environmental Engineering, Water resources Engineering, Geotechnical Engineering, Geo Environmental Engineering, Construction materials.
- **Coordinator:** Dr. C. Prakash (c_prakash@cb.amrita.edu)

Program: Cyber Security

- **Research Areas:** Systems Security, AI in Cyber Security, Cryptanalysis, Post Quantum Cryptography.
- **Coordinator:** Chungath Srinivasan (c_srinivasan@cb.amrita.edu)

Program: Aerospace Engineering

- **Research Areas:** Composite materials, Structural Analysis, Combustion, Unmanned Aerial Vehicles (MAV, Fixed, Multi rotor, Flapping), Flight Control, Aero-Elasticity, CFD.
- **Coordinator:** Sakthivel Thangavel (t_sakthivel@cb.amrita.edu)

Program: Electronics & Communication Engineering

- **Research Areas:** The department of ECE offers Ph.D. programs in the areas of Communication, Signal processing, VLSI and Biomedical engineering.
- **Coordinator:** Dr. JP Anita (jp_anita@cb.amrita.edu)

Program: Chemical Engineering and Materials Science

- **Research Areas:** Energy Storage, Hydrogen Energy, Biomaterials, Emerging Contaminants and Wastewater Treatment, Smart polymer nanocomposites for energy, Risk Assessment and Environmental Toxicology, Environment Management and Sustainability, Development of highly efficient and durable electrocatalysts for CO2 reduction (Co2RR), Polymer synthesis from sustainable sources, Advanced Membrane Technologies for Water Treatment, Biodiesel production from biomass, Formation of value-added products from waste biomass, Plasma-assisted Direct Conversion of Biogas to Hydrogen, Catalyst Development for Conversion of Glycerol, Catalyst Development for NOX reduction. Machine Learning for Solar powered IOT devices, Nanodielectrics for Energy Conversion and Storage, High Temperature Materials Processing on polymers, Ferroelectric Materials, Flexible Printed Electronics, Polymer electrolytes, AI-Enhanced Sensors for Real-Time Monitoring in Coastal Agricultural Fields, Greenhouse Gases Monitoring, Design of bi-functional MOFs for metal-air batteries.
- **Coordinator:** Dr. K. Jayanarayanan (kj_narayanan@cb.amrita.edu)

Program: Electrical & Electronics Engineering

- **Research Areas:** Smart Grid, Signal Processing, Power Aware Embedded Systems, Cyber Physical Systems, Robotics, Energy Automation, Power Converters, Power Management.
- **Coordinator:** Dr. Supriya.P (p_supriya@cb.amrita.edu)

Faculty of Management

Program: Management

- **Research Areas:** Marketing, Sustainability, Finance, OB&HR, Operations, Information Systems, General Management.
- **Coordinator:** Dr. Suresh M (phdchairasb@cb.amrita.edu)

Faculty of Physical Sciences

Program: Chemistry

- **Research Areas:** Biosensors, Lab-on-a-chip, supercapacitor, sensor, water treatment, Materials for water treatment, Polymer coatings for corrosion protection, Energy storage applications, Drug and fluorophore synthesis, interaction with proteins, Biomass for energy, biomedical and environmental remediation. Indian knowledge system-based material science, Small molecule synthesis and application on cancer, Natural product chemistry, Polymers and Drug delivery, Photocatalytic materials, Wearable biosensors, smart materials, organ on a chip devices.
- **Coordinator:** Dr. D V Ravi Kumar (vrk_darbha@cb.amrita.edu)

Program: Physics

- **Research Areas:** Liquid crystals, Textile chemistry, Materials for Bio-medical Applications, Nano Materials synthesis and characterisations, Bio Materials, Thin Films, Ceramic Materials, Quantum and Astro Physics, Materials for Energy and sustainable applications, Experimental techniques.
- **Coordinator:** Dr. M. Ulaganathan (m_ulaganathan@cb.amrita.edu)

Program: Mathematics

- **Research Areas:** All the research areas in Mathematics, Statistics, Computer Science and Data Science.
- **Coordinator:** Dr. A. Vinod Kumar (a_vinodkumar@cb.amrita.edu)

FARIDABAD CAMPUS

Faculty of Artificial Intelligence

Program: Artificial Intelligence

- **Research Areas:** Generative AI, Data Science & Big Data, Computational Linguistics, Health Informatics (Medical Imaging, Telemedicine, EHR systems), Bio Informatics (Genomics, Drug discovery, Comp. Biology), Quantum Computing, Robotics and Autonomous Systems, Embedded Systems & IoT.
- **Coordinator:** Dr. Lakshmi Mohandas (lakshmi.mohandas@dl.amrita.edu)

KOCHI CAMPUS

Faculty of Arts, Humanities and Commerce

Program: Commerce and Management

- **Research Areas:** Accounting/Tourism / Finance / Banking/Taxation / Rural Economic Development/Migration / Economics / Marketing / Human Resource Management / Entrepreneurship / Strategic Management / Education / Technology Management/Spirituality / Psychology.
- **Coordinator:** Dr. Prasanth A P (prasanthap@kh.amrita.edu)

Program: Visual Media / Communication

- **Research Areas:** Health, Environment, Development Communication, Media Literacy, New Media and social media, Journalism and Mass Communication, Film Studies, Communication Technology and Digital Transformation, Artificial Intelligence and Automation in Media, Media Consumption and Audience Behaviour, Journalism and Technological Adaptation, social media and Public Discourse.

- **Coordinator:** Dr. S Dinesh Babu (dineshbabu@kh.amrita.edu)

Faculty of Computing

Program: Computer Science Engineering

- **Research Areas:** Data Mining/Computer Vision / Computational Biology / Digital Image Processing.
- **Coordinator:** Dr. Vimina E R (viminaer@kh.amrita.edu)

Faculty of Medical & Health Sciences

Program: Nursing

- **Research Areas:** Medical Surgical Nursing, OBG Nursing, Child Health Nursing, Mental Health Nursing and Community Health Nursing.
- **Coordinator:** Dr. K.T.Moly (ktmoly@aims.amrita.edu)

Faculty of Physical Sciences

Program: Mathematics

- **Research Areas:** Nonlinear Dynamics and Control / Queuing Theory.
- **Coordinator:** Dr. T Senthilkumar (tsenthilkumar@kh.amrita.edu)

MYSURU CAMPUS

Faculty of Arts, Humanities and Commerce

Programs: Commerce & Management / Visual Communication / Philosophy / Sanskrit / English Language & Literature

- **Research Areas:** Journalism and Mass Communication, New Media, E-governance, Development Communication, Film Studies, Brand Management & Advertising, Marketing & Communication, Cinema Studies, Audience Studies, Culture Studies, Photography. Indian Knowledge System, Sanskrit Literature, Indian Philosophy, Sanskrit Lexicography, Manuscriptology. Literature.
- **Coordinator:** Dr. Sudarshan R (sudarshan.rudra@my.amrita.edu)

Faculty of Computing

Program: Computer Science & Engineering

- **Research Areas:** Applying Global Quality framework(s) to develop consistent software products, Computer Autonomous vehicle, Bioinformatics, Computational Biology, Computer Vision, Cryptography, Cyber Physical Systems, Cyber Security, Cyber Security in Wireless

networks, Data Transmission in IOT, Defect prediction and avoidance, Digital Image Processing and Artificial Intelligence, Documents & Agriculture Image Processing, Genetic Algorithms, Health & AI, Image Processing, Intelligent Transportation Systems, IoT based systems in healthcare affective computing, Machine Learning, Medical Image Processing, Mobile Adhoc Network, Network Security, Pattern Recognition, Risk management techniques, Sensitive Mining, Solid Mechanics, Sustainable Systems, Thermo Elasticity, Wave Propagation, Wireless Sensor Networks, Wireless Sensors.

- **Coordinator:** Dr. Sudarshan R (sudarshan.rudra@my.amrita.edu)

Faculty of Physical Sciences

Program: Chemistry / Mathematics

- **Research Areas (Chemistry):** Physical & Computational Chemistry.