



**RAMAIAH
UNIVERSITY**
OF APPLIED SCIENCES

Research Division

List of Approved Internal Research Supervisors (AY 2022-23)

Faculty of Engineering and Technology					
Sl. No.	Name	Department	Qualification	Experience in Years	Areas of Research Interest
1	Dr. S. Srikari	Automotive and Aeronautical Engineering	B.Sc., M.Sc., M. Tech. and Ph.D.	16	<ul style="list-style-type: none">• Composite Materials• Bio Materials• Ceramics• Coating Technology• Polymers
2	Dr. A.T. Sriram	Automotive and Aeronautical Engineering	B.E., M.E. and Ph.D.	18	<ul style="list-style-type: none">• Combustion – Gas Turbine, Scram Jet, IC Engines and Power Plants• Aerodynamics : Turbomachinery Aerodynamics, Flow Structure Interaction• Stability and Control – Aircraft and Other Related Power and Vehicle Application• Non – Thermal Plasma and Plasma Thrusters• Bio Fluid Mechanics – Blood Flow in Brain



Research Division

Faculty of Engineering and Technology					
Sl. No.	Name	Department	Qualification	Experience in Years	Areas of Research Interest
3	Dr. B.S. Dayananda	Automotive and Aeronautical Engineering	B.E., M. Tech. and Ph.D.	19	<ul style="list-style-type: none">• Alternative Fuels• I C Engines• Combustion Technology
4	Dr. R. Raja	Automotive & Aeronautical Engineering	B.E., M.E. and Ph.D.	22	<ul style="list-style-type: none">• Alternate Fuels for Automotive Engines• Design and Validation of Automotive System
5	Dr. Mahesh K. Varpe	Automotive & Aeronautical Engineering	B.E., M. Tech. and Ph.D.	13	<ul style="list-style-type: none">• Aerospace Propulsion• Turbomachines• Flow Control• Experimental Aerodynamics and Flow Visualisation• Heat Transfer
6	Dr. M. Sivapragasam	Automotive & Aeronautical Engineering	B.Sc., M.Sc. and Ph.D.	12	<ul style="list-style-type: none">• Fluid Mechanics• Aerodynamics• Computational Fluid Dynamics• Gas Turbine Engineering• Turbomachinery Aerodynamics
7	Dr. A. Sivathanu Pillai	Automotive and Aeronautical Engineering	B.E., Advanced Management Program, Ph.D. and D.Sc.	50	<ul style="list-style-type: none">• Missile Technology Control Regime• Aerospace• Launch Vehicles• Guided Missiles• Advanced system engineering• Rocket Motors Development



Research Division

Faculty of Engineering and Technology					
Sl. No.	Name	Department	Qualification	Experience in Years	Areas of Research Interest
8	Dr. S.D. Anitha Kumari	Civil Engineering	B.E., M.S. and Ph. D.	13	<ul style="list-style-type: none">• Earthquake Geotechnical Engineering• Discrete Element Modelling• Rock Mechanics• Blast/Shock Loading in Underground Structures• Seismic Hazard Analysis
9	Dr. B.R. Venkatesh	Civil Engineering	B.Sc., M.Sc. and Ph. D.	40	<ul style="list-style-type: none">• Environmental Science• Geochemistry (Stable Isotopes)• Sedimentology (Earth Science)• Marine Geology
10	Dr. Harshad Rameshwar Parate	Civil Engineering	B.E., M.E. and Ph. D.	09	<ul style="list-style-type: none">• Water Resources Engineering• Vadose Zone Engineering• Surface and Groundwater Engineering
11	Dr. Nayana N. Patil	Civil Engineering	B.E., M. Tech and Ph. D.	28	<ul style="list-style-type: none">• Reinforced Soil• Concrete Technology• Green Technology• Soil Stabilization• Waste Management
12	Dr. C. Narendra Babu	Computer Science & Engineering	B.E., M. Tech. and Ph. D.	17	<ul style="list-style-type: none">• Time Series Analysis and Forecasting• Data Mining, Predictive Analytics• Big Data• Soft Computing



Research Division

Faculty of Engineering and Technology					
Sl. No.	Name	Department	Qualification	Experience in Years	Areas of Research Interest
13	Dr. Subarna Chatterjee	Computer Science & Engineering	B.E., M. E. and Ph. D.	08	<ul style="list-style-type: none">• Medical Image Analysis & Processing• Image Processing & Pattern Recognition• Computational Geometry• Embedded System
14	Dr. Pushphavathi T.P.	Computer Science & Engineering	B.E., M. Tech. and Ph. D.	21	<ul style="list-style-type: none">• Data Mining• Soft Computing and Big Data Analytics• Software Engineering
15	Dr. Mohan Kumar K.N.	Computer Science & Engineering	B.E., M. Tech. and Ph.D.	13	<ul style="list-style-type: none">• Machine Learning• Natural Language Processing• Predictive Analytics• Technology Augmentation• Interactive Technologies
16	Prof. Govind R. Kadambi	Electronics and Communication Engineering	B.E., M.S. and Ph.D.	36	<ul style="list-style-type: none">• Antenna-Analysis and Design• Electromagnetics and Computational Electromagnetics• Multi Band Antennas for Wireless Applications• Adaptive Techniques in Communication and Signal Processing• Digital Beamforming, MAMETs and Optic Flow



Research Division

Faculty of Engineering and Technology					
Sl. No.	Name	Department	Qualification	Experience in Years	Areas of Research Interest
17	Dr. S. Malathi	Electronics and Communication Engineering	B.E., M.E. and Ph. D.	10	<ul style="list-style-type: none">• Fiber Optic Communication• Integrated Optics• Optical Sensors• Optical MEMS
18	Dr. D. Punithavathi	Electronics and Communication Engineering	B.E., M.E. and Ph.D.	12	<ul style="list-style-type: none">• Digital System Architecture• FPGA Based High Performance Architecture Design• Embedded System• Digital Signal Processing
19	Dr. Rinki Sharma	Electronics and Communication Engineering	B.E., M.Sc. and Ph. D.	14	<ul style="list-style-type: none">• Computer Networks• Wireless Networks• Network Security• Internet of Things• Embedded Networks
20	Dr. B.R. Karthikeyan	Electronics & Communication Engineering	B.E., M.S. and Ph. D.	13	<ul style="list-style-type: none">• Antenna Analysis and Design• Antenna Arrays and Beam forming Systems• Computational Electromagnetics• Baseband Signal Processing & Wireless Communications• Adaptive Algorithms for Communication Systems• Artificial Intelligence and Machine Learning• Bio-medical Signal, Image processing
21	Dr. T. Christy Bobby	Electronics & Communication Engineering	B.E., M.S. and Ph.D.	21	<ul style="list-style-type: none">• Bio Medical Image Processing• Bio Medical Signal Processing• Bio Medical Instrumentation• Machine Learning Techniques• Nano Bio Materials for Bone Tissue Engineering



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22	Dr. Y. Sunil	Electronics & Communication Engineering	B.E., M. Tech. and Ph. D.	14	<ul style="list-style-type: none">• Signal Processing• Speech and Image Processing• Communication• VLSI and Embedded System
23	Dr. Pallaviram Sure	Electronics & Communication Engineering	B.E., M. Tech. and Ph. D.	13	<ul style="list-style-type: none">• Big Data Aware 5G Massive MIMO and MIMO-OFDM Systems• Green Communications with Spectrum Sensing• Sparse Modelling and Compressive Sensing based Antenna NFFT Transformation• High Dimensional Data Compression Backing Smart City Requirements
24	Dr. Ugra Mohan Roy	Electronics and Communication Engineering	B.E., M.E and Ph. D.	15	<ul style="list-style-type: none">• Photonics and Optical Fibre Communication• Microwave Photonics• High Speed Printed Circuit Board• Design and Signal Integrity Analysis Electronic System Design, Management and Development
25	Dr. D. Varun	Electronics and Communication Engineering	B.E., M.Sc. (Eng.) and Ph.D.	09	<ul style="list-style-type: none">• Microwave Systems• Antenna Design and Reconfigurable Antennas• Conformal Antenna Arrays and Beamsteering• RF Front End Design and Reconfigurable System• RADAR Front End Development• Communication Systems• Computational Electromagnetics



Research Division

Faculty of Engineering and Technology					
Sl. No.	Name	Department	Qualification	Experience in Years	Areas of Research Interest
26	Dr. Shreyanka Subbarayappa	Department of Electronics and Communication Engineering	B.E., M.Tech. and Ph.D.	16	<ul style="list-style-type: none">• Multimedia Processing Applications• Video Pre/Post Processing• Video Codecs• Image Pre/Post Processing• Image and Audio Codecs
27	Dr. K. Manickavasagam	Electrical Engineering	B.E., M.E. and Ph. D.	19	<ul style="list-style-type: none">• Power System Analysis• Renewable Energy System• Power System Operation• Power System Control• Power System Automation
28	Dr. Shama Ravichandran	Electrical Engineering	B.E., M.E. and Ph.D.	06	<ul style="list-style-type: none">• Robust Control• Adaptive Control• Control Systems
29	Dr. Rahul M. Cadambi	Mechanical & Manufacturing Engineering	B.E., M. Tech. and Ph. D.	13	<ul style="list-style-type: none">• Synthesis of Nanomaterials• Polymer and Rubber Nanocomposites• Composite Materials• Metallised Coatings on Polymers and Rubbers
30	Dr. T.N. Srikantha Dath	Mechanical & Manufacturing Engineering	B.E., M.E. and Ph.D.	31	<ul style="list-style-type: none">• Supply Chain Management• Knowledge Management• Operations Management• Quality Engineering and Management• Manufacturing Engineering



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Sl. No.	Name	Department	Qualification	Experience in Years	Areas of Research Interest
31	Dr. M.C. Murugesh	Mechanical & Manufacturing Engineering	B.E., M. Tech. and Ph. D.	17	<ul style="list-style-type: none">• Drilling of Polymer Matrix Composites
32	Dr. Ananth S. Iyengar	Mechanical & Manufacturing Engineering	B.E., M.S. and Ph.D.	06	<ul style="list-style-type: none">• Thermal Engineering• Nanotechnology• Bio Sensors• Micro/Nano Fabrication
33	Dr. N.C. Mahendra Babu	Mechanical & Manufacturing Engineering	B.E., M. Tech. and Ph. D.	31	<ul style="list-style-type: none">• Metal Fatigue Analysis• Fatigue Life Extension Techniques• Fracture Mechanics• Machinery Design• Structural Analysis
34	Dr. R. Suresh	Mechanical & Manufacturing Engineering	B.E., M. Tech. and Ph. D.	18	<ul style="list-style-type: none">• Machining of Hard Materials• Non-Traditional Machining• Surface Coating• Composites Processing
35	Prof. Kuldeep Kumar Raina	Mechanical & Manufacturing Engineering	B.Sc, M.Sc., Ph.D. and Post Doc.	30	<ul style="list-style-type: none">• Solid State Materials• Liquid Crystal Materials and Devices• Electro-Ceramics• Polymers• Self-Assembled Thin Film Systems• Nano-Composites.



Research Division

Faculty of Engineering and Technology

Sl. No.	Name	Department	Qualification	Experience in Years	Areas of Research Interest
36	Dr. Shashank Vadlamani	Aerospace Engineering	B. E., M.S. and Ph.D.	01 Year 06 Months	<ul style="list-style-type: none">• Numerical Methods• Probabilistic Modelling• Fatigue and Fracture Mechanics
37	Dr. Jitenjaya Pradhan	Aerospace Engineering	B.E., M. Tech. and Ph. D.	01 Year 06 Months	<ul style="list-style-type: none">• Acoustic Noise Barriers• Computational and Experimental Acoustics• Numerical Modelling of Acoustic Wave Propagation• High Performance Computing, DRP Schemes
38	Dr. Gopalkrishna N.	Aerospace Engineering	B.E., M.Sc. (Engg). and Ph.D.	01	<ul style="list-style-type: none">• Unsteady Shock Oscillation and Pulsation• Study Control Mechanism on High Speed Body• Experimental High Speed Flow• Computational Fluid Dynamics• Fluid Structure Interaction
39	Dr. Divya B.S.	Computer Science and Engineering	B. E., M. Tech. and Ph.D.	09 Years 04 Months	<ul style="list-style-type: none">• Image Processing• Machine Learning• Computer Vision• Artificial Intelligence• Pattern Recognition
40	Dr. S. Nagaraja Rao	Electrical Engineering	B.Tech, M. Tech. and Ph.D.	12	<ul style="list-style-type: none">• Multilevel Converter Topologies with Fault Tolerance• Advanced PWM Control Techniques• Power Electronics Applications to Renewable Energy Sources• Power Electronics Integration with Grid



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Faculty of Engineering and Technology					
Sl. No.	Name	Department	Qualification	Experience in Years	Areas of Research Interest
41	Dr. S. Thompson	Computer Science and Engineering	B. E., M. E. and Ph.D.	04	<ul style="list-style-type: none">• Wireless Communication• Wireless Sensor Networks• Cognitive Radio Networks• Artificial Intelligence
42	Dr. Jayahar Sivasubramanian	Aerospace Engineering	B. E., M. S. and Ph.D.	11	<ul style="list-style-type: none">• Computational Hypersonics• Aero-thermodynamics• Computational Fluid Dynamics• Boundary Layer Transition• Flow Separation and Control
43	Dr. S. P. Sreenivas Padala	Civil Engineering	B. Tech., M.Tech. and Ph.D.	05	<ul style="list-style-type: none">• Project Change Management• Project Planning, Scheduling and Controlling• Project Time and Cost Prediction and Optimization• Cost Management• Building Information Modelling and Machine Learning Applications in Construction Management
44	Dr. Kumar C.	Civil Engineering	MSc, M.Phil. Ph.D.	21 Year and 05 Months	<ul style="list-style-type: none">• Applied Engineering, Geology and Soil Properties• Environmental Science• Hydrogeology• Watershed Management• Remote Sensing and GIS Application• Natural Resources Management



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Sl. No.	Name	Department	Qualification	Experience in Years	Areas of Research Interest
45	Dr. Jyothi A. P.	Computer Science and Engineering	B.E, M.Tech, Ph.D.	16	<ul style="list-style-type: none">• Wireless Sensor Networks and MANETS• Artificial Intelligence, Machine Learning, Deep Learning• IoT and Cloud Computing• Embedded Systems• Computer communication• Computer networks• Computer architecture
46	Dr. Dilip Kumar Mahanty	Mechanical and Manufacturing Engineering	I.Sc, B.S, P.hD.	30	<ul style="list-style-type: none">• Finite Element Method & Analysis• Experimental & Numerical Stress Analysis• Fracture Mechanics & Fatigue Studies of Metals & Composites• Engineering Design & Analysis• Product Design & Development work• Application of alternate materials for various product development• Testing and engineering applications of non-metals like Composites

Research Division

List of Approved External Research Supervisors

Faculty of Engineering and Technology					
Sl. No.	Name	Department	Qualification	Experience in Years	Areas of Research Interest
1.	Dr. Yogananda Vasudev Jeppu	Electronics and Communication Engineering	B.E., M.E., Ph.D.	28	<ul style="list-style-type: none"> • Safety of Critical Embedded Control Systems • Formal Verification and Validation • Guidance and Control System Design • Modelling and Simulation • Managing Innovation
2.	Dr. Gajbir Singh	Automotive and Aeronautical Engineering	B.E., M.Tech., Ph.D.	36	<ul style="list-style-type: none"> • Aerospace and Automotive Engineering • Heavy Engineering and Medical Devices
3.	Dr. K. Ramachandra	Automotive and Aeronautical Engineering	B.E., M.E., MBA, Ph.D.,	43	<ul style="list-style-type: none"> • Gas Turbine Research • Design Analysis: Stress, Vibration, Heat Transfer and Gear Box • Aerodynamic Studies
4.	Dr. Venkateswarlu Andra	Automotive and Aeronautical Engineering	B.E., M.Tech., Ph.D.	32	<ul style="list-style-type: none"> • Control Dynamics & Analysis • Cyber Security • Locomotive Engines • Digital Field Development
5.	Dr. Terry Williams	Automotive and Aeronautical Engineering	M.Sc., Ph.D.	28	<ul style="list-style-type: none"> • Crash Energy Management • Simulation and Validation • Computational Fluid Dynamics
6.	Dr. Margam Chandrasekaran	Mechanical & Manufacturing Engineering	B.E., M.S., Ph.D.	23	<ul style="list-style-type: none"> • Processing of Light Alloys and Nano Materials • Tribology and Characterization of Material Pairs (Including Biotribology) • Processing of Biomaterials (Polymeric, Metallic and Ceramin) for Tissue Engineering • Powder Metallurgical Processing • Recycling of Metallic Waste Materials

Research Division

Faculty of Engineering and Technology					
Sl. No.	Name	Department	Qualification	Experience in Years	Areas of Research Interest
7.	Dr. Ezer Osei Yeboah Boateng	Computer Science and Engineering	B.Sc., M.Sc., Ph.D.	31	<ul style="list-style-type: none"> • Cyber Security • Digital Forensics • Cloud Computing • Big Data • Neuro Fuzzy Systems
8.	Dr. Patrick OhemengGyaase	Computer Science and Engineering	B.Sc., M.Sc., Ph.D.	19	<ul style="list-style-type: none"> • Telecommunication Policy and Standards • ICT Infrastructure and Financing • E-Commerce and E-Government • E-Learning Infrastructure and Applications
9.	Dr. Francis BoatengAgyesim	Mechanical and Manufacturing Engineering	B.Sc. (Honours) M.Sc., Ph.D.	15	<ul style="list-style-type: none"> • Renewable Energy • Energy Efficiency • Environmental Performance Modelling • Building Research
10.	Dr.Osei Nana Adjei	Electronics and Communication Engineering	M.Sc., Ph.D.	43	<ul style="list-style-type: none"> • Artificial Intelligence • Traffic Detection Using Hidden Markov Model • Machine Vision • Robotics • Computational Intelligence
11	Dr. N. Sriraam	Medical Electronics	B. E., M.Tech. and Ph.D.	22	<ul style="list-style-type: none"> • Bio Medical Signal and Image Processing • AI and Deep Learning • Biosensors • Telemedicine • Wearable Electronics
12	Dr. J. Krishna Kishore	Department of Aerospace Engineering	B.Tech, M.Tech. and Ph.D.	30	<ul style="list-style-type: none"> • Machine Intelligence • Remote Sensing and Earth Observation • Reconfigurable Computing and Avionics for Space • Spacecraft Configurations and Engineering

Research Division

Faculty of Engineering and Technology					
Sl. No.	Name	Department	Qualification	Experience in Years	Areas of Research Interest
13	Dr. Florian Tobias Keller`	Simulation Filter Elements	Ph.D. (Dr.-Ing) Process Engineering 2012 Diploma Technomathematics 2007	12	<ul style="list-style-type: none"> • CFD Simulation of filter elements • Microstructure Simulation of filter media • Digitalization in engineering • Colloidal Particulate Systems
14	Dr. S. Ganesan	Medical Electronics	B. Tech., M. Tech. and Ph.D.	25	<ul style="list-style-type: none"> • Gas Turbine • Afterburner • Combustion and Combustion Instability • Computational Fluid Dynamics
15	Dr. K. Venkatachalam	Electronics and Communication Engineering	Ph.D.	16	<ul style="list-style-type: none"> • Optical Fibre Communication • Photonic Crystal Based Devices • Wireless Communication • Embedded System and Design • IoT