Ph.D Thrust Areas

Sl. No	Deprtment/Centre	Thrust Area
1	Architecture	1.History Of Architecture, 2.Vernacular Architecture and Architectural Design 3.Building Architecture
2	Aerospace	1.Anti Icing Nano coating for wind mill 2.Thermal barrier Nano coating for re- entry vehicle 3.Composite nano coating for Aero structures
3	Biotechnology	1.Biosensors 2.Enzyme Separation and Purification 3.Biopolymers 4.Lignocellulosic Ethanol 5.Carbondioxide Sequestration 6.Patterning of Biomolecules on nanoparticles 7.Nanoparticles synthesis and characterization 8.Biodiesel from Microalgae
4	Chemical Engg	1. Development of Nano particle additives for biofuel applications. 2. Electro chemical treatment of industrial effluents. 3. Development and characterisation of fuel from polymer wastes. 4. Floating feed formulation for fresh water sea bass cultivation. 5. Technology development of less weight sand free based fly ash bricks. 6. Super hydrophobic coatings for construction industries. 7. Paper recycling and utilization.
5	ECE	1 Signal processing for wireless and mobile communication. 2. RF Mems 3. Biomedical engineering 4. Antenna and RF circuit design 5. Wireless Networking BioMEMS 6.Nano Electronics
6	CSE	1. Natural Language processing 2. Digital Image processing 3. Network Congestion Control 4. 4.Wireless Sensor networks 5. Network security
7	Computer Applications	1. E-Learning 2. Virtual Learning Environment 3. Ontology 4. Online Learning 5. Networking
8	EEE	1.Special Electrical Machines and its Drives Control 2.Soft Switching Converters 3.3.Artificial Intelligence and Motion Control 4.Design of Solid State Drives 5.Hybrid Inverter Design for Renewable Energy.
9	Mechanical	1.Biomass Gasification 2.Thermo Chemical 3. Thermal Engg., 4.Heat transfer, 5.Building Energy, 6. Energy Efficient systems. 7.Gasification, 8. Manufacturing

10	Political Science	1.Parliamentary Democracy 2.Elections in India 3.International Relations 4.Communalism 5.Political Economy
11	Physics	1.Thin films 2.X ray Crystallography 3.Crystal Growth 4.Solar vacuum tube collector 5.Solar Photovoltaics
12	English	1.Indian Writing 2.English Language Teaching 3.Teaching Methodology
13	Chemistry	1.Green Chemistry 2.Chemical Kinetics 3.Nano Chemistry 4.X-ray Crystallography 5.Phytochemistry 6.Computational Chemistry 7.Photo catalysis 8.Heterogenous catalysis 9.Nano material synthesis 10.Biomethanation Reaction 11.Corrosion Studies
14	Mathematics	1. Fuzzy Theory 2. Mathematical Modeling for Engineering Problems such as Networking, Optimization, etc.
15	Education	1.Educational Psychology 2.Educational Technology 3.Emotional intelligence
16	Management Studies	**1.**Finance 2.Marketing 3.Human Resource Management