

## List of Research Areas – For admission to PHD program (2017)

Graph Theory and Algorithms  
Discrete Mathematics, Combinatorics, Algorithms

Additive Manufacturing  
Smart Manufacturing  
Sustainable Manufacturing  
Design Manufacturing Integration  
Computational study of flow and heat transfer and its applications  
Additive Manufacturing, Environmentally conscious Manufacturing, Cloud Supply chain  
Integration, Cloud scheduling, Sustainable Supply chain,  
Robotics, control systems, mechatronics,  
Finite Element Methods  
Computational Mechanics, Material Modelling, Smart Materials, Bio-mechanics  
Fatigue of hybrid polymer composites, Computational solid mechanics, Multi-scale modelling  
of materials  
Fracture resistant advanced polymer composites  
Simultaneous heat and mass transfer - Vacuum frying, Sublimation heat transfer, Freeze  
drying, Freeze Casting, Freeze desalination, Porous media heat transfer - Metal foams

Social/Wireless Networks,  
Wireless Communications  
Wireless/Mobile Communication  
Design and implementation of Controllers for smart grid  
Design and Development of electronic products for medical field  
Developing Monitoring Systems  
Multi band RF system design  
Printed Antennas  
High Performance VLSI Architectures for Digital Signal Processing, HEVC  
Network System Design, Packet Processing Architectures and Algorithms  
Digital Signal Processing,  
Control Systems

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