



PLACEMENT BROCHURE 2022-23

Department of Electrical Engineering

*Indian Institute of Technology
Hyderabad*

About Us

The Department of Electrical Engineering (EE) at IIT Hyderabad offers a vibrant environment for under graduate, post graduate education and research in many areas of Electrical Engineering. We are a team of **32 faculty** (28 fulltime + 4 visiting), **476 students** (**192 BTech, 122 MTech and 162 PhD**) and 4 staff members engaged in cutting edge research and teaching in several frontier areas of Electrical Engineering.



The department offers B.Tech in Electrical Engineering and M.Tech and Ph.D. in four specializations.

- Microelectronics and VLSI
- Communication and Signal Processing
- Power Electronics and Power Systems
- Systems and Control

Academics

- BTech (4 Years)
- MTech (2 Years)
- MTech Research Assistantship (3 Years)
- Doctor of Philosophy
- Post Doctoral Fellowship



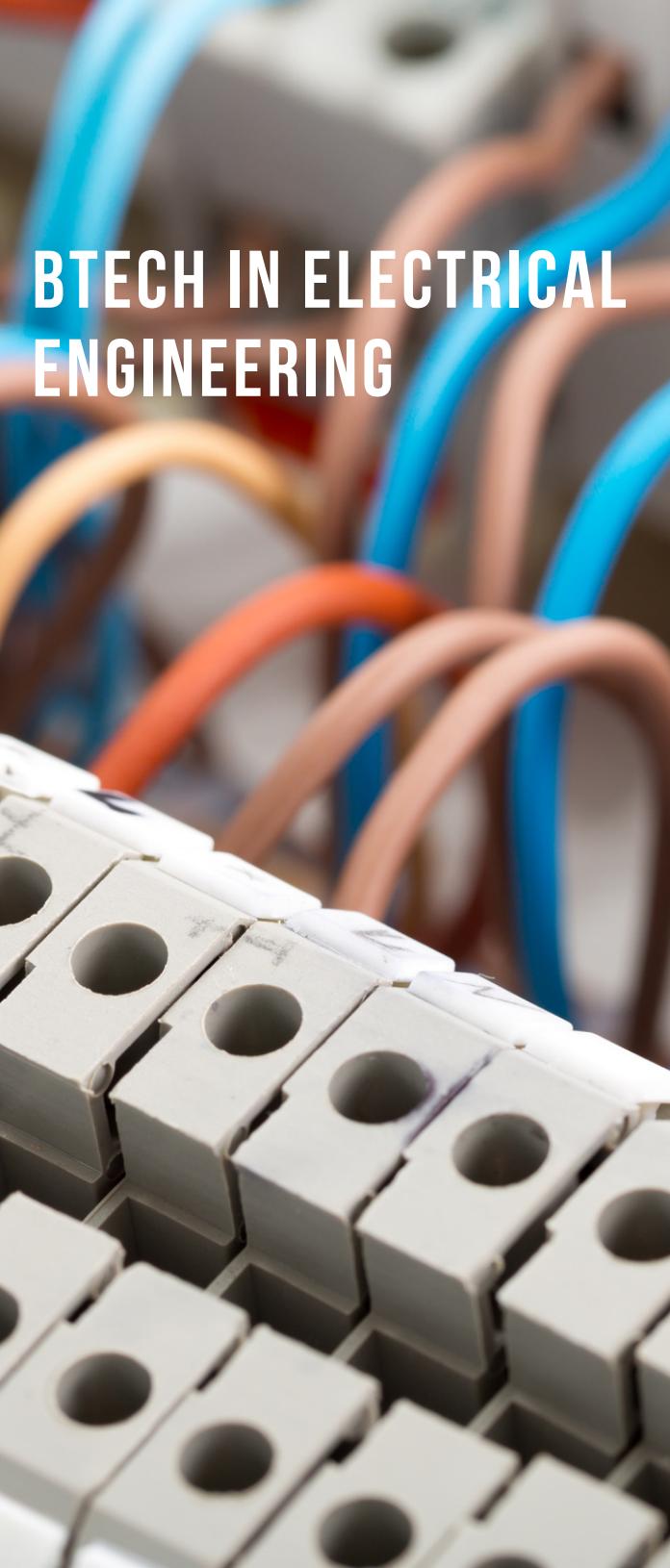
RESEARCH

Research Outcomes include over 1000 Publications, 74 Filed Patents, and funded projects of over 185Cr over the past five years. Another major project includes a testbed on autonomous navigation (TiHAN) for unmanned aerial vehicles, which got funded 135 crores by GOI.

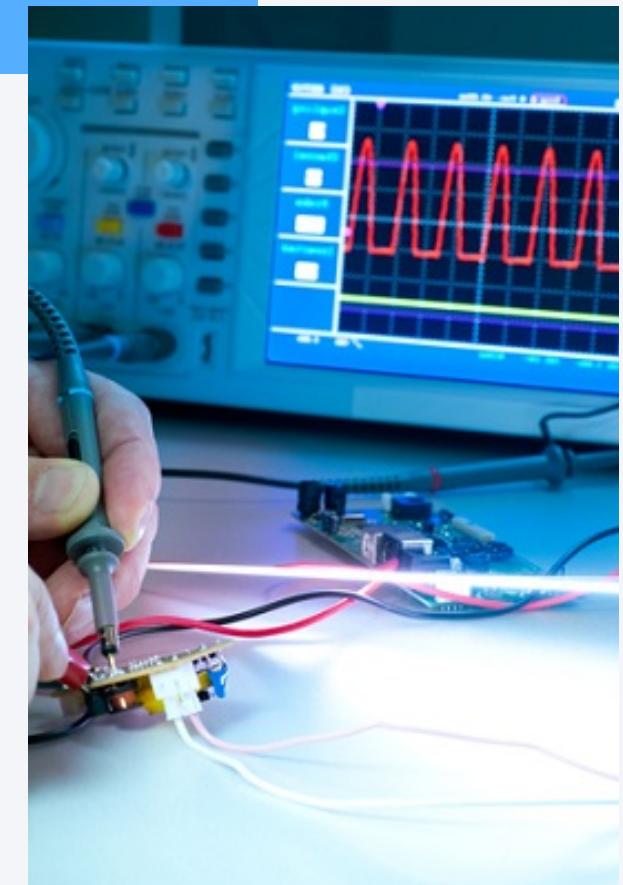
Research areas are a healthy mix of traditional Electrical Engineering and interdisciplinary research. Some of the emerging research fields include:

- 5G and next-generation communication technologies
- Ultra-low energy wireless networks and ML techniques for 6G/Wi-Fi 7 applications
- Autonomous Navigation and Data Acquisition Systems
- Artificial Intelligence-based Computer-Aided Design techniques for VLSI
- 3-D ICs, 3-D MEMS, Micro/Nano-electronics and fluidics
- Cooperative Communication, Speech and Multimedia Signal Processing.
- Cognitive Radio/Radar, Cyber-Physical Systems, Data compression
- Image and Video Quality Assessment, Biomedical Imaging
- Green ICT (micro-grids, sensor networks)
- Power Systems and Power Electronics
- Identification and Estimation of Fault and Diagnosis
- Electric Vehicle
- Integration of Renewable Energy Sources to Grid (Micro Grid), Smart Grid, Electric Drives and control
- Systems and Control Engineering
- Advanced Control Applications, Statistical Process Monitoring and Control
- Healthcare Electronics
- Design for testability and fault-tolerant circuit design
- Nano-magnetic Quantum Computations.

BTECH IN ELECTRICAL ENGINEERING



Being one of the most reputed departments in IITH, the Department of electrical engineering offers a wide scope to undergraduates with exposure in various fields like Microelectronics/VLSI, Signal Processing, Power Electronics, Power Systems, and Control systems. As a part of SciTech clubs like Elektronika, Robotix, Lambda, and Kludge, students work on many real-time projects. BTech students have participated in research challenges conducted by IEEE. Recently a team from EE UG got the First runner-up award in the Signal Processing Cup at ICASSP 2022. Students also work in large-scale projects taken up by faculties which include indigenous 5G testbed and Technology Innovation Hub on Autonomous Navigation Systems (TiHAN).



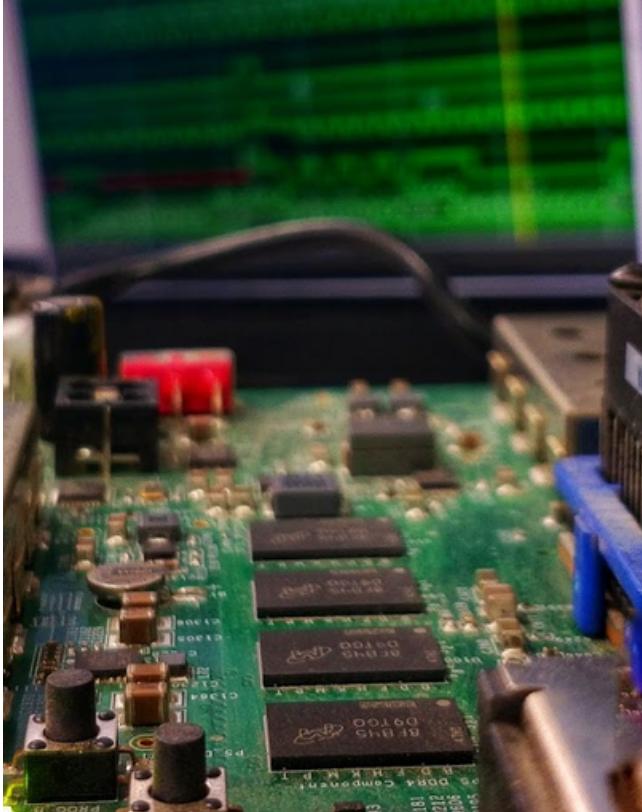
[For the Curriculum of BTech EE check here](#)



भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

POST GRADUATE PROGRAMS





MICROELECTRONICS AND VLSI

The Department of Electrical Engineering(EE) at IIT Hyderabad offers a vibrant environment for postgraduate education and research in many areas of Electrical Engineering.

One such major area includes Microelectronics and VLSI. The VLSI group at IIT Hyderabad has been actively involved in research and development with numerous publications, patents and conferences around the world.

LABS

- Advanced Embedded Systems and Digital IC Design Lab
- Design of Analog RF Mixed Integrated Circuit Lab
- Electron Devices Research Lab
- Nano-X Cleanroom and Characterisation Lab
- Nanophotonics Lab

Core Courses

- Introduction to VLSI Design
- Digital IC Design
- Analog IC Design
- VLSI Technology
- ICs for Wireless Communication
- System Design Lab
- Semiconductor Device Modeling

Elective Courses

- Mixed Signal Circuit Design
- Nanoelectronics: Principles and Devices
- Embedded Programming
- Computational Nanoelectronics
- Nano and Quantum Photonics
- Introduction to MEMS



COMMUNICATION AND SIGNAL PROCESSING

Department of Electrical Engineering is one of the most reputed department of IITH which offers four post-graduate programmes among which Communication and Signal Processing has been one of the most demanding and advanced branch in research, teaching and innovation. Faculties from this department have undertaken large-scale projects of national importance, among which The Technology Innovation Hub on Autonomous Navigation Systems (TiHAN) and indigenous 5G testbed are the popular ones.



LABS

- Wireless Communications and Networking (WiCoN) Lab
- Wireless Networks (WiNet) Lab
- 5G Testbed Lab
- The Technology Innovation Hub for Autonomous Navigation (TiHAN) Testbed Lab
- Coding and Communication Theory Lab
- Speech Information Processing Lab
- Cognitive Radio Lab
- Cyber Physical Systems Lab

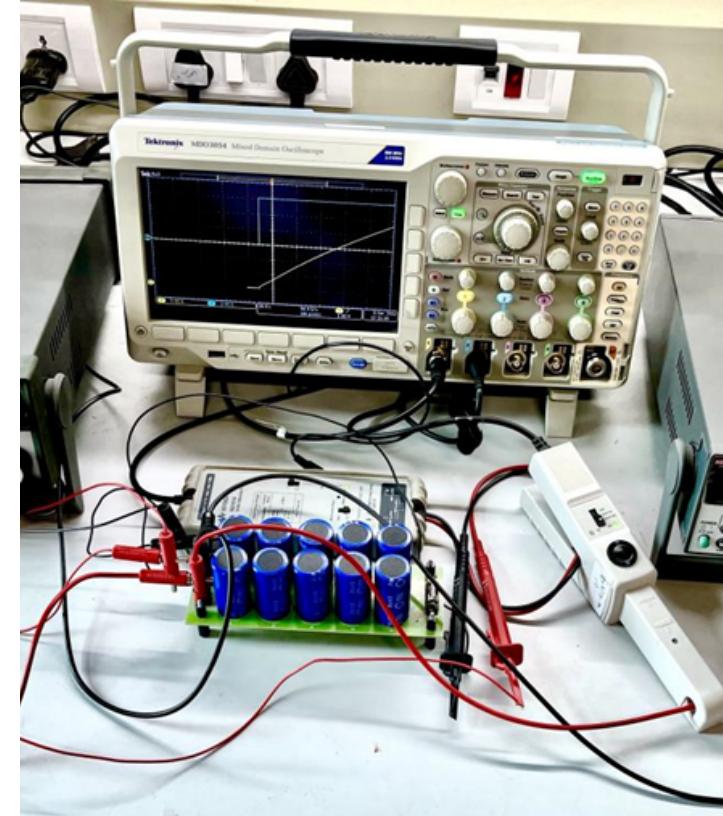
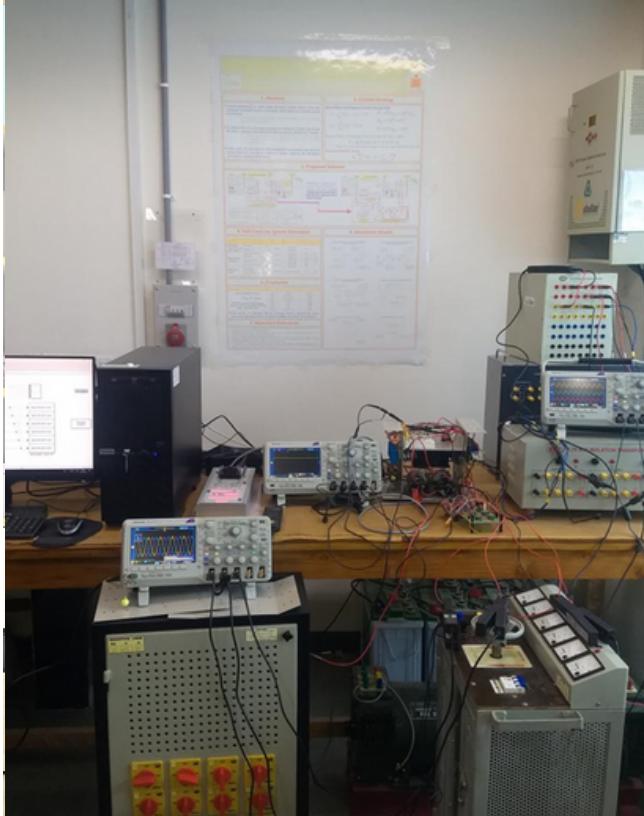


Core Courses:

- Signal Processing and Digital Communication
- Pattern Recognition and Machine Learning
- Random Variables and Stochastic processes
- Convex Optimization
- Information Theory

Departmental Elective:

- Advanced Digital Signal Processing
- Image Processing
- Advanced Data structures and Algorithms
- Sensing and Planning for Autonomous Vehicle
- Computer Networks



POWER ELECTRONICS AND POWER SYSTEMS

Power System & Power Electronics researches are focuses on all aspects of electrical energy, energy generation, delivery innovation, alternative resources and efficient devices. Systems, Controls and devices for the conversion, delivery and use of efficient electrical energy are the main focus of research projects. The expansion of solar, wind, Micro grid and also combined with trends such as electric vehicles, will surely have a profound impact on global society. The connection between the worlds of electric power systems and power electronics is robust.

LABS

- Power system computation lab
- Micro-grid and smart grid lab
- Dynamics and control lab
- Smart Power Applications and Renewable Control (SPARC)
- Power Electronics and Power Systems (PEPS) Lab
- Renewable Energy and Power Systems Lab
- Power Systems Lab

Power Electronics Courses:

- Analysis, Design and Control of Power Electronics Converters
- Multilevel Inverters
- Grid Integration of PV systems
- Power Converters for Renewable Energy Applications
- Modeling and Control of Electric Drives
- Electrical Machine Analysis and Control

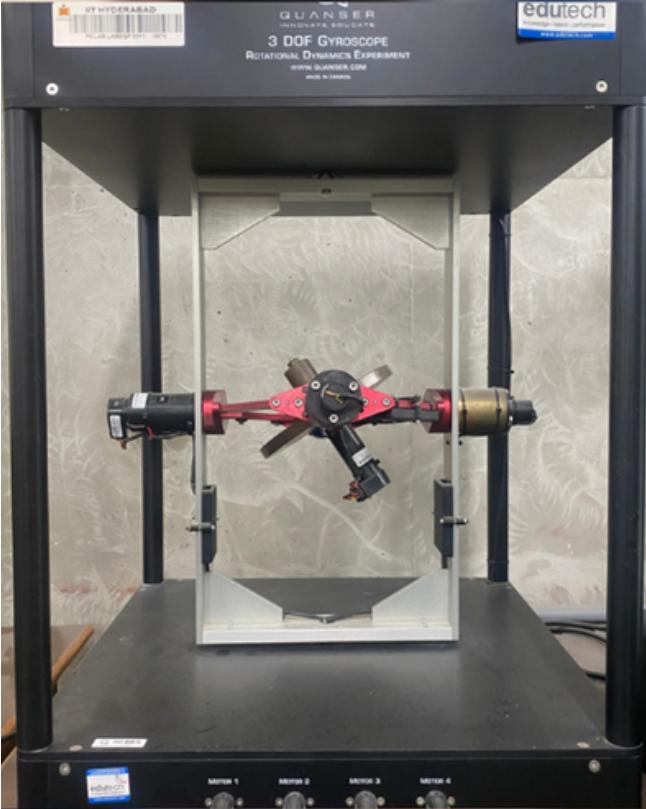
Power System Courses

- Steady-State Power System Analysis
- Power System Protection
- Power System Dynamics and Control
- PMU and WAMS
- HVDC
- Smart Grid



SYSTEMS AND CONTROLS

The Department of Electrical Engineering(EE) offered M. Tech. in System and Control Engineering (syscon) from the academic year 2014 at IITH. The course work mould students with a holistic understanding of the theory and practice of Control System, as well as to create a complete ecosystem for both academic practice and research in many areas of Electrical Engineering.



LABS

- Dynamics and Control Lab
- DSP Lab
- Micro Grid and Smart Grid Lab
- Advance Control Lab



Core Courses:

- Advance Control Theory
- Random Variables & Stochastic Process
- Convex Optimization
- Introduction to AI and ML
- EE Industry Lecture Series

COLLABORATIONS

The faculties have active collaborations with various academic and industry partners such as Intel, Xilinx, TSMC, Suzuki, Hyundai, Silicon Labs, DRDO, SERB, MEITY, DST, Govt. of India.



PAST RECRUITERS



Qualcomm



AMD ABB



SAMSUNG



XILINX

cadence



Western
Digital®



SIEMENS



MathWork



Aura
Semiconductor



EATON



SUZUKI

NVIDIA®



STERADIANSEMI

SEDEMAC™

HCL

NTT AT

meesho

amazon



Microsoft

ceremorphic®

Rakuten

ORACLE®

Razorpay

MENTORS



Dr. Amit Acharyya
Associate Professor



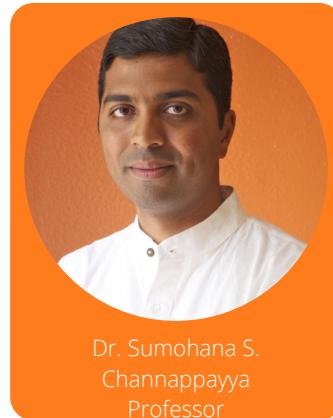
Dr. Oves Badami
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Dr. Sushmee Badhulika
Associate Professor



Dr. Ravikumar Bhimasingu
Associate Professor



Dr. Sumohana S. Channappayya
Professor



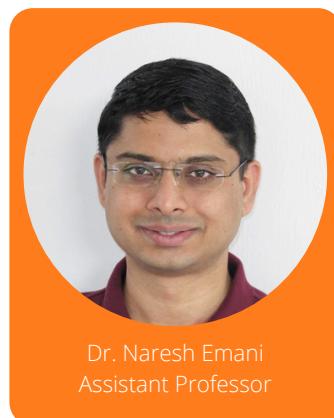
Dr. Gajendranath Chowdary
Assistant Professor



Dr. Ketan Detroja
Associate Professor



Dr. Ashudeb Dutta
Professor



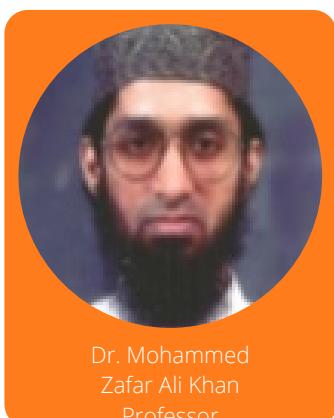
Dr. Naresh Emani
Assistant Professor



Dr. Soumya Jana
Professor



Dr. Kuchi Kiran Kumar
Professor



Dr. Mohammed Zafar Ali Khan
Professor



Dr. Sri Rama Murty Kodukula
Associate Professor



Dr. Abhinav Kumar
Associate Professor

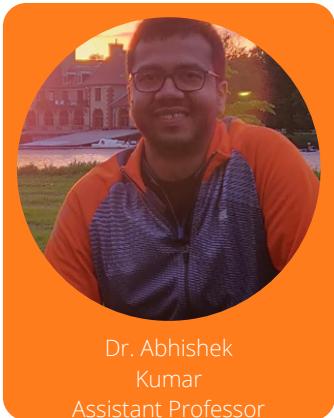


Dr. K. Siva Kumar
Professor

MENTORS



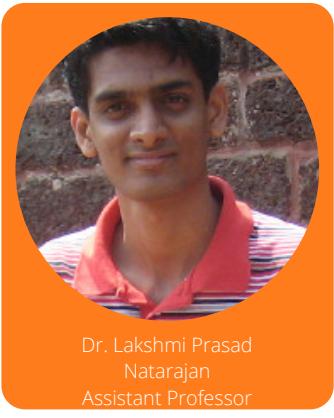
Dr. Shishir Kumar
Assistant Professor



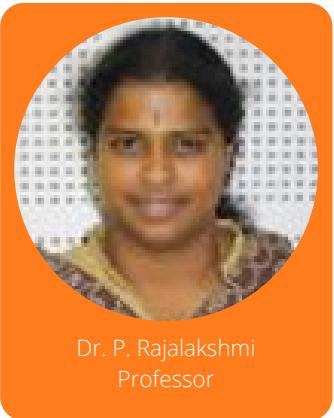
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Kumar
Assistant Professor



Dr. Kaushik Nayak
Associate Professor



Dr. Lakshmi Prasad
Natarajan
Assistant Professor



Dr. P. Rajalakshmi
Professor



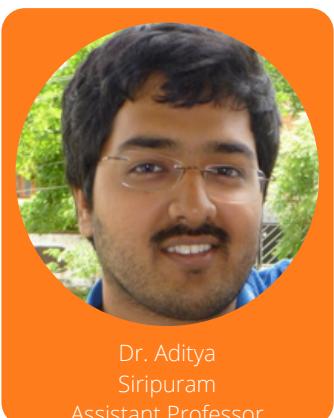
Dr. Vaskar Sarkar
Associate
Professor



Dr. G. V. V. Sharma
Associate
Professor



Dr. Shiv Govind Singh
Professor & Head of
the Department



Dr. Aditya
Siripuram
Assistant Professor



Dr. Seshadri Sravan
Kumar V
Assistant Professor



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Vanjari
Associate Professor



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Vatedka
Assistant Professor



Dr. Rupesh
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Assistant Professor



Dr. Pradeep Kumar
Yemula
Associate Professor

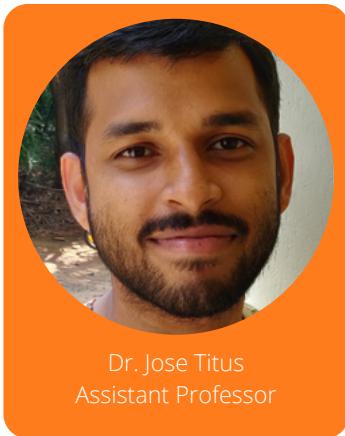


Dr. Sundaram Vanka
Associate Professor

MENTORS



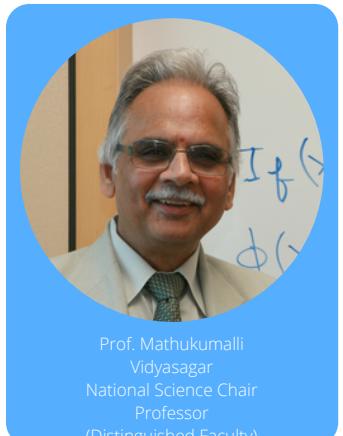
Dr. Shubhadeep
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Assistant Professor



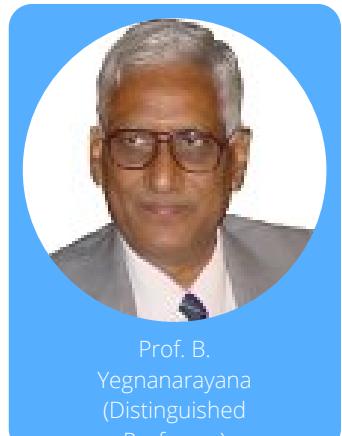
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Assistant Professor



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(Emeritus Faculty)



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Vidyasagar
National Science Chair
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(Distinguished Faculty)



Prof. B.
Yegnanarayana
(Distinguished
Professor)



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