

DEPARTMENT NEWSLETTER

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

JYOTHI ENGINEERING COLLEGE



Vision: - To become a center of excellence in electrical and electronics engineering through high quality technical education with an emphasis on holistic excellence.

Mission: - To inculcate ethical professionalism through value-based quality education as to equip the students with appropriate skills for a meaningful career and holistic excellence and promote creative engineering ideas for the benefit of the society.

Programme Educational Objectives: -

- 1) Graduates shall have a good foundation in the fundamental and practical aspects of Mathematics and Engineering Sciences to build successful and enriching careers in the field of Electrical Engineering and allied areas.
- 2) Graduates shall learn and adapt themselves to the latest technological developments in the field of Electrical & Electronics Engineering which will, in turn, motivate them to excel in their domains and shall pursue higher education and research.
- 3) Graduates shall have professional ethics and good communication ability along with entrepreneurial skills and leadership skills so that they can succeed in multidisciplinary and diverse fields.

Program specific outcomes: -

Graduates possess

- 1) Ability to have good foundation in theoretical and practical aspects of Electrical & Electronics Engineering.
- 2) Ability to model, analyze, design and realize physical systems, components or processes thereby adapt themselves to the latest research and developments in the field of Electrical & Electronics Engineering.
- 3) Ability to communicate and work professionally as well as take up entrepreneurial endeavors in the field of Electrical Engineering and allied areas for the benefit of the society.

Programme Outcomes: -

- **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

FACULTY ACHIEVEMENTS

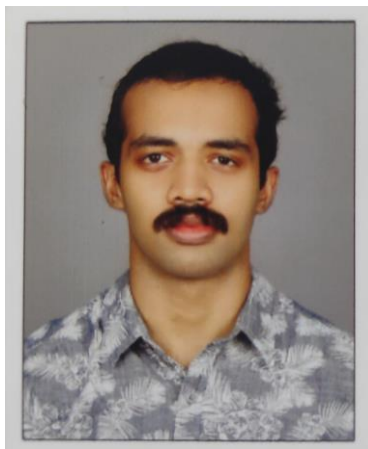
- Dr. Jarin T, Associate Professor, Dept. of EEE published a paper, “Biodegradation of P-nitrophenol using a novel bacterium Achromobacter denitrificans isolated from industrial effluent water”, in water science and technology journal in November 2021.
- Dr. Jarin T, Associate Professor, Dept. of EEE published a paper, “The review and investigation of sustainable 13-level multilevel inverter control strategies”, in interscience online journal, in 2021.
- Dr. Jarin T, Associate Professor, Dept. of EEE published a paper, “An elitist control scheme for power flow management in smart grid system: a hybrid optimization scheme”, in energy sources Part A: Recovery, Utilization and Environment Effects in Dec 2021.
- Dr. Shijoh V, Associate Professor, Dept. of EEE, published a paper “Performance comparison of estimation-based control schemes for hybrid systems” in Transactions of the Institute of Measurement and Control, September 2021.
- Dr. Shijoh V, Associate Professor, Dept. of EEE acted as resource person for NBA Orientation Workshop on Outcome Based Education Assessment Tools and Procedures and Self Assessment Report at Mahaguru Institute of Technology, Kayamkulam on 27/7/2021 and 13/7/21.
- Mr. Jithin K Jose, Assistant Professor, Dept. of EEE acted as resource person for the NBA Consultancy work conducted from July 2021 to December 2021, at HAoly Grace Academy of Management Studies
- Mr. Jithin K Jose, Assistant Professor, Dept. of EEE published a paper, “Optimized Prosumer Consortium Model – Analysis” in IEEE Conference.

UNIVERSITY TOPPERS

M.TECH S1 POWER ELECTRONICS TOPPERS



Aneena Sivan
SGPA 8.82

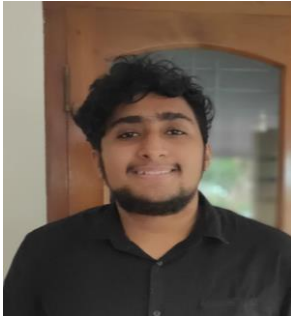


Manu M Krishna
SGPA 8.82



Jain varghese
SGPA 8.3

B. TECH S3 TOPPERS



FAWAS FIROS
SGPA 9.45



RHEA SAMUEL
SGPA 9.45



LIVIYA VIJU
SGPA 9.27

B. TECH S5 TOPPERS



Saraswathi Bose
SGPA 8.35



Akshay P
SGPA 8.3



Rahul S.S
SGPA 8.17

B. TECH S8 TOPPERS



Sneha J. P.
SGPA 10



Amritha Ashok K
SGPA 9.83



Anitta Savy
SGPA 9.67