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SPARK

YEARLY NEWSLETTER DEPT OF EEE

OVERVIEW

- **DEPARTMENT VISION & MISSION**
- **PRINCIPAL'S DESK**
- **HOD'S DESK**
- **STUDENTS SPEAK**
- **TECHINICAL EVENTS**
- **FACULTY ACHIEVEMENTS**
- **STUDENT ACHIEVEMENTS**
- **RESEARCH AND PUBLICATIONS**
- **POTENZIA '19**

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DEPARTMENT VISION & MISSION



DEPARTMENT VISION

The Electrical engineering Programme emphasizes design, innovation, real world applications of evolving technologies, and simulation of real time systems along with developing entrepreneurial capabilities by providing excellent Electrical Engineering Education.

DEPARTMENT MISSION

The Electrical engineering Programme emphasizes design, innovation, real world applications of evolving technologies, and simulation of real time systems along with developing entrepreneurial capabilities by providing excellent Electrical Engineering Education.



PRINCIPAL'S DESK



It is with profound sense of pride and pleasure that we present you this very special volume of SPARK. Every page unfolds a plethora of the abundant creative and literary talents of our ever enthusiastic students. You can feel the pulse of this great institution as the pages reveal our students' capabilities. SPARK is truly the systematic product of a team of people. I am delighted to present you through these pages our students' thoughts, attitudes and aspirations. These young shining stars with their well embedded roots and spreading wings are the promise of a great tomorrow. This institution serves as a springboard from where they can unleash their true potential. I encourage everyone to go through this wonderful masterpiece of MGITians, whose quality ideas and contributions made this edition of SPARK colorful and readable.

Prof. K. Jaya Sankar

Principal

HOD'S DESK



The department of Electrical and Electronics Engineering was established in the year 2002 with an objective to develop professionals through quality education with an intake of 120 students. The EEE Department at Mahatma Gandhi Institute of Technology prepares students in this field using new-age information and computer-intensive technologies. The B.Tech. and M.Tech programs are designed to achieve a balance between depth of knowledge acquired through specialization and breadth of knowledge gained through exploration. The courses offered by the department provide a comprehensive foundation in the core topics of EEE coupled with an area of specialization relevant to emerging engineering challenges. The faculty in the department is a rich blend of personnel with industrial and professional experience. The dedicated staff members have sound knowledge in emerging areas like Power systems, power electronics, microelectronics, and control engineering, etc. The breadth and depth of the research interests of the academic staff ensures a high standard of lecture courses and provides excellent opportunities for challenging and stimulating final year projects. All faculty supplement their delivery using videos, animations overhead projectors. The faculty keeps up with the latest technologies by publishing in reputed journals and presenting at various national and international conferences. The students are not far behind. The students have made us proud by winning the best project award in National level technical project exhibitions. The EEE Department also holds several guest lectures, seminars and workshops. These provide a platform for the staff and students to share their views and experience among industrialists, fellow researchers, and academicians in the emerging areas of electrical engineering. On employability, graduates of the institute consistently appear as the first choice of employers. Studying EEE will lead to potential careers in the areas of Research & Development (R&D), design, systems analysis, control and manufacturing, quality assurance and testing. The department boasts of having many Assistant Engineers and Assistant Executive Engineers working in the electricity department of both Telangana and Andhra Pradesh governments. Students pursuing master's abroad have made us proud by taking up niche positions in various companies.

Dr. P Ram Kishore Kumar Reddy
HOD Dept. of EEE

STUDENTS SPEAK

MGIT is a wonderful place for all the students seeking the right career. My college has given me and all my friends a lot of opportunities to get the right job. The staff at MGIT is very supportive and really takes a lot of pain to develop the students. I am thankful to my faculties, staff and management of MGIT for my success

- P. Rithik Sai -

Kudos to the Faculty of our department (EEE) and Placement Cell of MGIT. The College has always provided me with every assistance that I have always wanted to. I was able to refine my overall Performances and build- on my Soft & Hard Skills.. I will always be grateful to them for providing me a platform of practical learning and preparing me for the corporate life.

- B. Srinidhi -

TECHNICAL EVENTS

MAGISTECH EVENT - ISTE



The Indian Society for Technical Education (ISTE) is a National, Professional, Non Profit technical Society. The major objective of the ISTE is to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industries and other organizations. The Students' Chapter of ISTE at MGIT was established in 2003. All the students of MGIT are the members of the chapter. ISTE Students' Chapter-MGIT, working in line with the national policy, is actively conducting various technical activities over the years in collaboration with all the departments of the Institute. ISTE Students' Chapter – MGIT organizes “MAGISTECH” a National Technical Symposium for Engineering Students annually on the eve of Engineers Day apart from various Technical events throughout the academic year. ISTE Students' Chapter – MGIT successfully organized State Level Students' Convention in the years 2013 and 2016. ISTE Students' Chapter – MGIT has been adjudged as “Best Students' Chapter” for the year 2013.

FACULTY ACHIEVEMENTS

FACULTY NAME : MRS. N.MADHURI

PROGRAMME : FDP

TOPIC : NPTEL ONLINE COURSE ON “ADVANCED POWER ELECTRONICS AND CONTROL”

PLACE : NPTEL

DATE : MARCH-2019(1 WEEK)

FACULTY NAME : MRS. P.V.B. KUMARI

PROGRAMME : FDP

TOPIC : NPTEL ONLINE COURSE ON “ADVANCED POWER ELECTRONICS AND CONTROL”

PLACE : NPTEL

DATE : MARCH-2019(1 WEEK)

FACULTY NAME : MR. CH. VINAY KUMAR

PROGRAMME : FDP

TOPIC : PANDITH MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING

PLACE : MAHATMA GANDHI NATIONAL COUNCIL OF RURAL EDUCATION,DEPT. OF HIGHER EDUCATION, GOVT. OF INDIA

DATE : 01.11.2018 TO 30.11.2018

FACULTY NAME : MR. CH. VINAY KUMAR

PROGRAMME : FDP

TOPIC : NPTEL ONLINE COURSE ON “ADVANCED POWER ELECTRONICS AND CONTROL”

PLACE : NPTEL

DATE : MARCH-2019(1 WEEK)

FACULTY NAME : MR. CH. VINAY KUMAR

PROGRAMME : FDP

**TOPIC : COMMUNICATION SYSTEM MODELING USING MATLAB &
SIMULINK**

PLACE : CAPRICOT TECHNOLOGIES, GNITS, HYDERABAD

DATE : 01.04.2019 TO 03.04.2019

FACULTY NAME : MR. CH. VINAY KUMAR

PROGRAMME : FDP

**TOPIC : SIGNIFICANCE OF MATLAB IN APPLICATIONS OF EMERGING
TECHNOLOGIES**

PLACE : CBIT

DATE : 26.06.2019

FACULTY NAME : MR.G.ARUN KUMAR

PROGRAMME : FDP

**TOPIC : SIGNIFICANCE OF MATLAB IN APPLICATIONS OF EMERGING
TECHNOLOGIES**

PLACE : CBIT

DATE : 26.06.2019

FACULTY NAME : MRS. S. SUDHA RANI

PROGRAMME : FDP

**TOPIC : SIGNIFICANCE OF MATLAB IN APPLICATIONS OF EMERGING
TECHNOLOGIES**

PLACE : CBIT

DATE : 26.06.2019

STUDENT ACHIEVEMENTS

- ELAN & NVISION- **A.Gourav** ,1 st prize
(Quadcopter challenge)
- AAVISHKAAR 2.0- **A.Gourav**, best innovation (low cost mapping using drone)
- Aeronautical society of India- **A.Gourav**, 3 rd prize
(pesticide spraying agriculture drone)
- **VIDHYA JYOTHI** (UDHBAV' 19)- **A.Gourav** best project
- MGIT (ISTE STUDENTS CHAPTER)- **A.Gourav**
2nd prize Electrical Extempore
- MGIT (ISTE STUDENTS CHAPTER)-**Richa Shiny**
1st prize TECHI DOODLE
- MGIT (ISTE STUDENTS CHAPTER)- **Chandana** 1
st prize TECH-O-FUN
- MGIT (ISTE STUDENTS CHAPTER)- **Tanuja** 1 st
prize TECH-O-FUN
- MGIT (ISTE STUDENTS CHAPTER)-**Akanksha
Singh** 1 st prize TECHI DOODLE

RESEARCH AND PUBLICATIONS

Name of the faculty : Dr. P. Ram Kishore Kumar Reddy

Authors : Dr. P. Ram Kishore Kumar Reddy

Title of the Paper :

Modeling and analysis of indirect vector Control of induction motor using fuzzy logic Controller

Name of the Journal :

International Journal of Research

Name of the faculty : Dr. P. Ram Kishore Kumar Reddy

Authors : Dr. P. Ram Kishore Kumar Reddy

Title of the Paper :

Analysis of Unified Power Flow Controller connected to Transmission Line by Fuzzy Logic

Name of the Journal :

International Journal of Research

Name of the faculty : Dr.P.Chandrasekhar

Authors : Mrs.N, Madhuri, Dr.M.Suryakalavathi, Dr.P.Chandrasekhar, Md.Mujahad Irfan, M.Sushama, Mr.A.Rama Chandra Reddy

Title of the Paper :

Modeling and analysis of indirect vector Control of induction motor using fuzzy logic Controller

Name of the Journal :

International Journal of Research

Name of the faculty : Dr.P.Chandrasekhar

Authors : Mrs. N. Madhuri, Dr. M. Suryakalavathi, Dr. P. Chandrasekhar

Title of the Paper :

Enhanced Improvement in Dynamic Behavior of Hybrid Active Power Filter using PI Controllers and Fuzzy Logic

Name of the Journal : International Journal of Recent Technology and Engineering

Name of the faculty : Dr.P.Chandrasekhar

Authors : Mr. A. Rama Chandra Reddy, Dr. P. Chandrasekhar

Title of the Paper :

Estimation of Switching surge Flashover rate of a 1200KV UHVAC Transmission line due to switching overvoltages

Name of the Journal :Springer

Name of the faculty : Dr.P.Chandrasekhar

Authors : Mr.A.Rama Chandra Reddy, Dr. P.Chandrasekhar

Title of the Paper :

Estimation of Switching surge Flashover rate of a 1200KV UHVAC Transmission line due to switching overvoltages

Name of the Journal :Springer

Name of the faculty :Dr.P.Nagsekhar Reddy

Authors : Dr.P.Nagsekhar Reddy

Title of the Paper :

Generalized Scalar PM Algorithms for direct torque control of AC Drives in Linear Modulation Index

Name of the Journal : International Journal of Management, Technology and Engineering

Name of the faculty : Dr.P.Nagsekhar Reddy

Authors : Dr.P.Nagsekhar Reddy

Title of the Paper :

Generalized Scalar PM Algorithms for direct torque control of AC Drives in Over Modulation Index

Name of the Journal : International Journal of Research and Analytical Reviews

Name of the faculty : Dr.P.Nagsekhar Reddy

Authors : Dr.P.Nagsekhar Reddy

Title of the Paper :

Realization of Hybrid Grid with Photo Voltaic Cell and Wind energy system using Simulink

Name of the Journal : International Journal of Management, Technology and Engineering

Name of the faculty : Dr.P.Nagsekhar Reddy

Authors : Dr.P.Nagsekhar Reddy

Title of the Paper :

Sensor less Direct Torque Control of Induction Motor with MRAS and extended kalman filter

Name of the Journal : International Journal of Management, Technology and Engineering

Name of the faculty : Mrs.N.Madhuri

Authors : Mrs.N.Madhuri.Dr.M.Suryakalavathi, Dr.P.Chandrasekhar

Title of the Paper : Enhanced Improvement in Dynamic Behavior of Hybrid Active Power Filter using PI Controllers and Fuzzy Logic

Name of the Journal : International Journal of Public Health Research and Development(IJPHRD),

Name of the faculty : Mrs.P.Laksmi Supriya

Authors : Mrs.P.Laksmi Supriya

Title of the Paper :

A Novel approach to Power Transformer fault detection using neural networks

Name of the Journal : International Journal of Research

Name of the faculty : Mr.A.Rama Chandra Reddy

Authors : Mr.A.Rama Chandra Reddy, Dr. P.Chandrasekhar

Title of the Paper :

Estimation of Switching surge Flashover rate of a 1200KV UHVAC Transmission line due to switching overvoltages

Name of the Journal : Springer

Name of the faculty : Mr.Vamshi Krishna Varma

Authors : Mr.Vamshi Krishna Varma, Mr.A.Ram Kumar

Title of the Paper :

A Performance Investigation of Proposed High-Voltage Boost (HVB) DC-DC Converter Fed BLDC Pumping System Using ANFIS Controller

Name of the Journal : ELSVIER International Journal of Recent Technology and Engineering (IJRTE)

Name of the faculty : Mrs.Swathi Paliwal

Authors : Mrs.Swathi Paliwal

Title of the Paper :

Gravitational search algorithm based optimization Technique for enhancing the performance of self excited induction generator

Name of the Journal : Springer, International Journal of System assurance engineering and mangement

POTENZIA'19

**The event which lights up the entire fest.
The master work of student committees
accomplished the event prosperously.
It flares up the whole college with its
hypnotizing events**

Events POTENZIA'19

- Paper Presentation
- Model Presentation
- Tech Quiz
- Circuit Debugging
- B - PLAN
- tECHNOWORDS
- Treasure Hunt
- FUN-O-MANIA
- FOOD
- STAGE



