

NEWSLETTER

Issue 7 | January – March, 2021.

Issue 8 | April - June, 2021.

Department of Electrical Engineering
SVNIT, Surat.

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Dear Readers,

I am happy to present the 7th and 8th issues of the department quarterly newsletter to you. The major parts of this collection include, short term training programmes organised (in the virtual mode), activities of Electrical Engineering Society, STTPs, faculty recruitment and research publications. I appreciate the efforts of the committee members Dr. J. Venkataramanaiah, Dr. G. Sushnigdha and Dr. Suresh Lakhimsetty in editing these issues. I also acknowledge the efforts of the research scholars Ms. Jahera Shaik and Mr. Deepkumar Patel in assisting the committee members.



Dr. R. Chudamani,
Head of the Department

Students' Achievements

- 1. Anshuman Zhala (U17EE100) received the Gold Medal for becoming the Institute Topper.*
- 2. Arihant Jain (U17EE089) scored AIR Rank 53 in the GATE – 2021.*
- 3. VanrajSarvaiya (U17EE023) achieved AIR Rank175 in the GATE – 2021.*

Activities of Electrical Engineering Society

<i>EVENT</i>	<i>DATE</i>	<i>PARTICIPANTS</i>
<i>DISCHARGE 2020</i>	<i>31-01-2021</i>	<i>150</i>
<i>DEXTRIX 2020</i>	<i>03-04-2021</i>	<i>250</i>
<i>AATISH 2020</i>	<i>24-04-2021</i>	<i>110</i>

DISCHARGE

Discharge is the annual orientation of out student chapter. The orientation is focused to enlighten the first-year students about the activities which are conducted by EES and the benefits they can get by being part of them. It is organised by the core committee of EES.

DEXTRIX

It is the flagship event of EES. It focused on providing the freshers' batch an exhilarating ride in the world of electrical engineering, from complex topics like electrical machines and power systems to useful engineering tools like MATLAB, trendy technologies like Electric Vehicles, Internet of Things (IoT) and Machine Learning (ML), Robotics, Autonomous vehicles, and Cyber Security in Smart Grid. We come-up with new topics every year to makes sure we stay update with all the new happenings in the world of electrical engineering.

AATISH

It is the annual fest organised by EES. We include various technical, managerial and fun events in the fest. For the year 2021 we had events like; Algowiz (Finding algorithm for a maze solving bot), The Imitation Game (Online coding competition), Trical Fire (Solving problems related to electrical engineering), MasterChef (Cook the required circuit from the available electrical components), Wireless Hiring (Mock placement competition), Analysis Aces (Case study event), War of XI (Forming your own cricket from the fund allotted), Games Arena (Valorant competition), Power Housie (Tambola competition) and Guest Lectures also.

Mr. Gaurav Shrishrimal delivered an expert talk on 'Entrepreneurship' in Aatish 2020.

Inter-Institute Activity

1. Title: *ARM Cortex Microcontroller for Renewable Energy Sources Integration*

Organized by: *Dr. M. A Mulla*

Sponsored by: *TEQIP III*

Place: *Electrical Department, Sagar Institute of Science & Technology, Bhopal*

Duration: *18-19 February, 2021*

2. Title: *Faculty Development Programme (FDP) on Application of Power Electronics Converters in Renewable Energy*

Organized by: *Dr. M. A Mulla*

Sponsored by: *TEQIP III*

Place: *Electrical Department, Lakshmi Narain College of Technology (LNCT), Indore*

Duration: *25-27 March, 2021*

Short Term Training Programmes

1. Title: *Advancement in Electric Vehicle Technology: A step towards Development of Sustainable Transportation System*

Organized by: *Prof. Varsha A Shah, Mrs. Chandani P. Gor, Dr. S. R. Arya, Dr. K. V. Praveen Kumar*

Sponsored by: *TEQIP III*

Duration: *18-22 February, 2021*

2. Title: *Advances in Control Systems Engineering and Applications*

Organized by: *Dr. R. Radhakrishnan, Dr. G. Sushnigdha, Dr. H.G. Patel, Prof. S.N. Sharma*

Sponsored by: *TEQIP III*

Duration: *24-28 February, 2021*

3. Title: *Sustainable Development and Recent Advances in Electrical Engineering (SDRAEE)*

Organized by: *Dr. Prasanta Kundu, Dr. Vasundhara Mahajan, Dr. Anandita Chowdhury, Dr. P. Darji*

Sponsored by: *TEQIP III*

Duration: *08-12 March, 2021*

Ph. D. Degree Awardees

Name of the student: *Prasad Rajeshkumar Mukhtar*

Title: *Position Sensorless Algorithms for the control of stator-tied and Rotor-tied doubly fed Induction generator*

Date: *31-05-2021*

Supervisor: *Dr. M. A. Mulla*

Name of the student: Patel Payal Pravinbhai

Title: Simple carrier-based pulse width modulation strategies for three-to-three phase indirect matrix converters

Date: 22-06-2021

Supervisor: Dr. M. A. Mulla

Recruitment News

Three Faculty members have been selected for the post of Assistant Professor in the faculty recruitment process conducted in March, 2021 and they have joined the Department by May, 2021.



Dr. Sukanta Halder

Area of research: Electric Vehicle, Machine Learning based Motor Control, WBG (SiC & GaN) Inverter Development, Gate Driver Design, PMSM Drive, MultiLevel Inverters, Sensor less Drives



Dr. Suresh Lakhimsetty

Area of research: Multilevel Inverters, Speed Control Techniques AC-DC drives, High-gain Converters.



Dr. Akanksha Shukla

Area of Research: Load Modelling for Power flow Analysis, Modelling of Distribution System, Impact of renewable integration on power system, Electric Vehicle Integration to Grid.

Patent

Prof. Varsha A. Shah

Title: *Braking and Field Weakening Control Algorithm of Induction Motor*

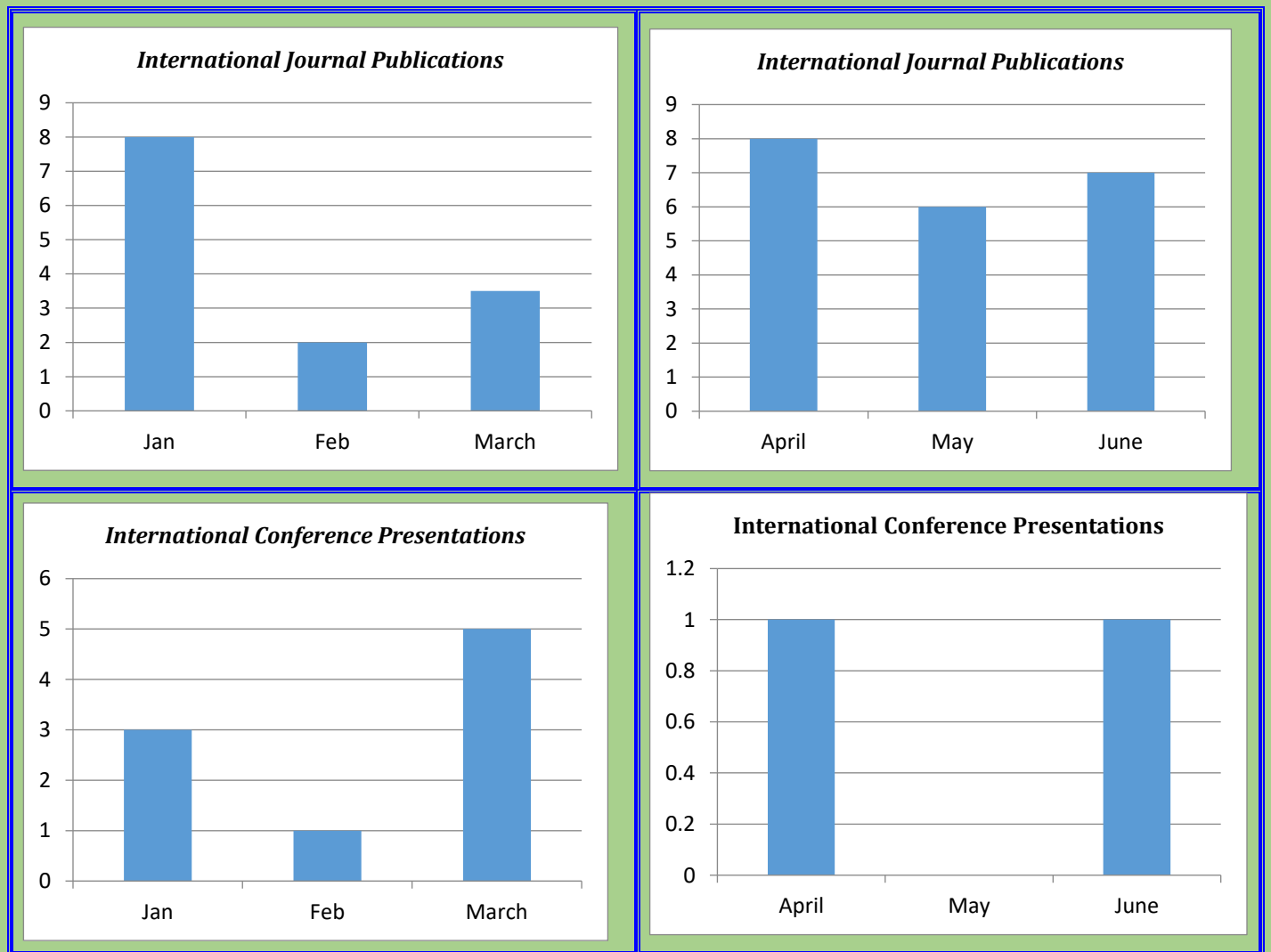
Application Date: 16-05-2021

Application No. 202121021976

Publication Date: 11-06-2021

Status: *Application referred for examination*

Research Publications



Bidding Farewell to our office staff

The department bids farewell to our office attendant Shri. G. G. Rathod who retired on attaining age of superannuation. We wish him a happy retired life.





Upcoming Events

Short Term Programmes (Organized hybrid mode (online and offline))

Title: Embedded C for ARM Cortex M4 Microcontrollers

Organized by: Dr. M. A. Mulla and Dr. Sanjay Tolani

Sponsored by: TEQIP III

Duration: 25-29 October, 2021

International Conferences (Diamond Jubilee Events)

1. Title: International conference: Sustainable Technology and advanced computing in Electrical Engineering

Organizing secretary: Dr. Vasundhara Mahajan, Dr. A. Chowdhury

Funded by: SVNIT

Duration: 11-12 October, 2021

2. Title: International Conference Sustainable development goals and gender perspective.

Organizing Secretary: Dr. Vasundhara Mahajan and Dr. A. Chowdhury

Funded by: SVNIT

Duration: 24-25 October, 2021



“Coming together is a beginning, keeping together is progress, working together is SUCCESS” – Henry Ford