

# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(An UGC Autonomous Institution)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi

Post Box No: 14, Kadiri Road

Angallu (Village), Madanapalle-517325



Department of Electrical and Electronics Engineering



## CURRENTS

Vol. 1 Issue. 1

Newsletter

Jan-Dec 2021



### About us

The Department of Electrical and Electronics Engineering has been playing a vital role in producing professionals of highest calibre ever since it was established in 1998. The department runs one under-graduate programme and one post-graduate programme (M.Tech. - Electrical Power Systems) to cater to the ever challenging needs of technical excellence in all areas of Electrical Engineering such as Power systems, Control Systems & Power Electronics. The department conducts regular seminars, guest lectures, workshops and technical symposiums on latest technologies.

The Department has obtained UGC-Autonomous Status in the year 2014 and have been running programmes (B. Tech. & M. Tech.) successfully. The College Academic Council and Board of Studies of the department strive to provide quality education with the most advanced curriculum to make the students industry ready and excel in the contemporary business world.

The B. Tech. Programme under Department of Electrical and Electronics Engineering was accredited by the National Board of Accreditation (NBA) of All India Council for Technical Education (AICTE).

## **Editorial Board & Review Committee**



Mr. P. Balamurali  
Krishna  
(Assistant Professor)



Dr. Rajendra Prasad  
Narne  
(Associate Professor)



Dr. A V Pavan Kumar  
(Associate Professor  
& Head)

## **Highlights of the Current Edition**

- Events & Programs
- Workshops/ Trainings Attended
- Faculty publications
- Faculty Achievements
- Placement updates
- Student Publications

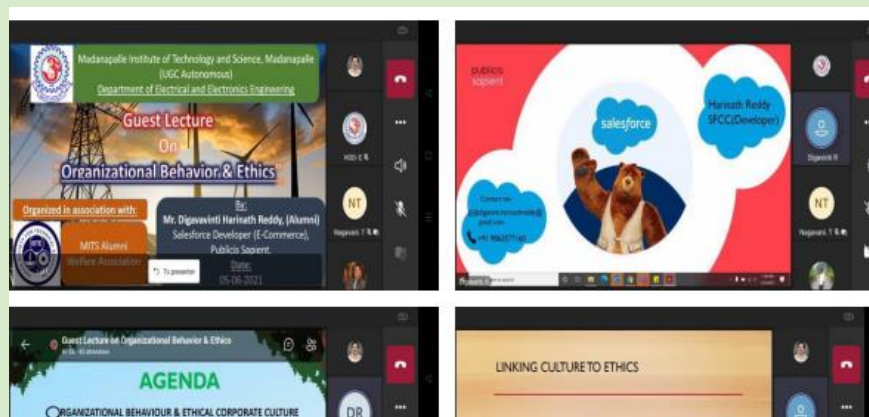
## Events and Programs

### Alumni Interaction



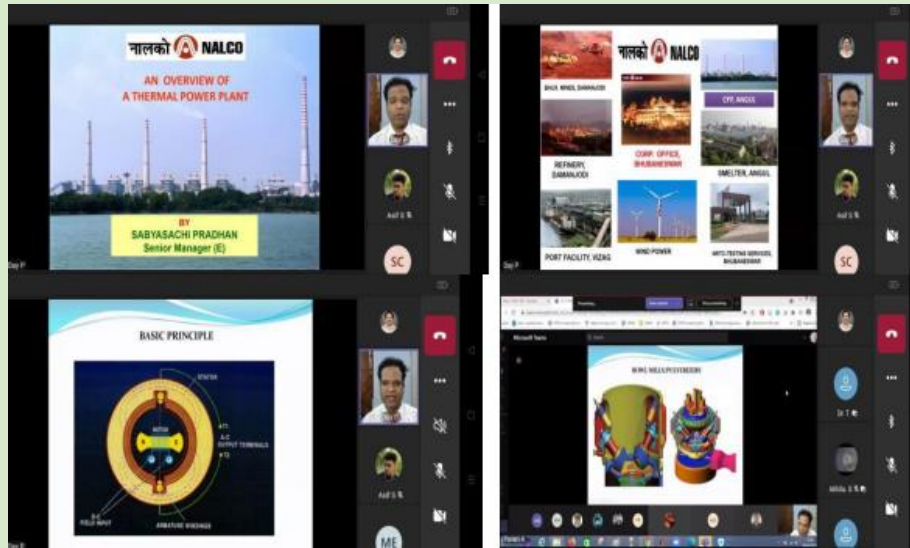
Mr. Ramana , an Alumni of MITS working as a Software Engineer, at Objective Win Technologies, Bangalore interacted with the students of EEE on 08<sup>th</sup> January 2021.

### Guest Talk by Alumni



Mr. Digavinti Harinath, an Alumni of MITS working as a Salesforce Developer (E-Commerce), Publicis Sapient delivered a Talk on “Organizational Behaviour & Ethics” on 5<sup>th</sup> June 2021.

## Webinars/ Workshops



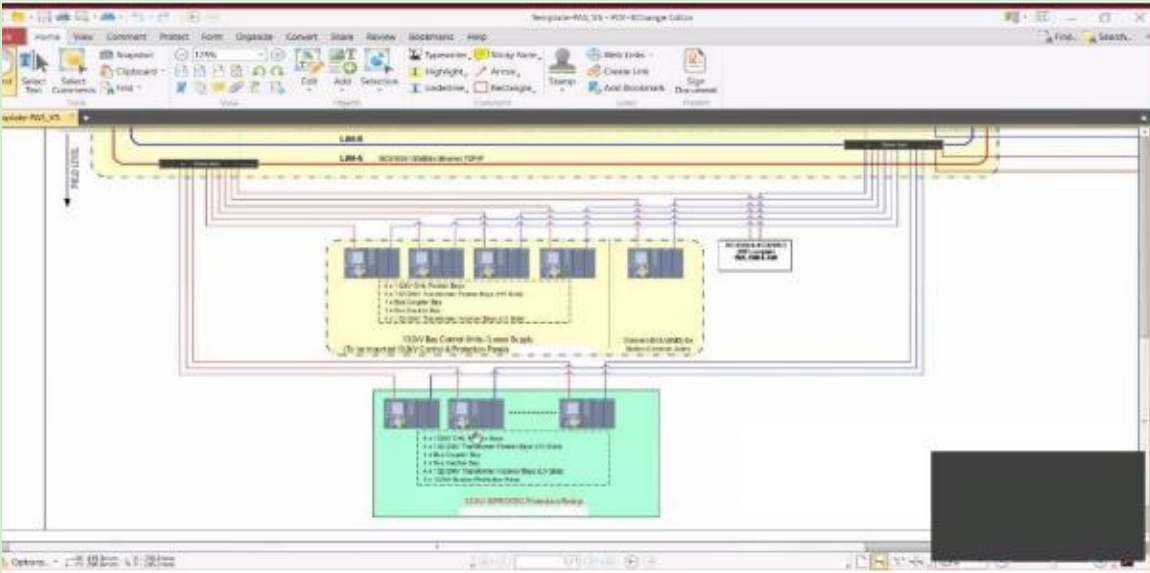
Mr. Sabyasachi Pradhan, Senior Manager (Electrical) at Captive Power Plant, National Aluminium Company Limited (NALCO), (A Navratna PSE under Govt. of India, placed at Angul, Odisha) was invited as a resource person for a webinar on “A Brief Overview of Thermal Power Plant” conducted by the Department of EEE, MITS on 8<sup>th</sup> June 2021.



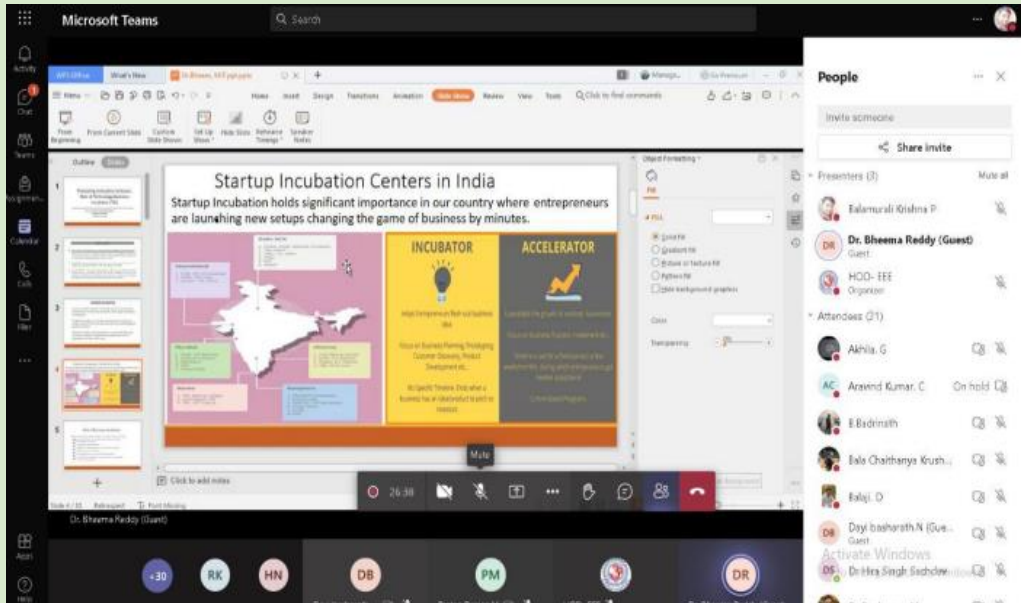
Dr V.Vasan Prabhu, Ph.D, Associate Professor, SRM University, Chennai was invited as a resource person of a Webinar on “Electric Vehicle - Design Overview” organized by the Department of EEE, MITS on 11<sup>th</sup> June 2021.



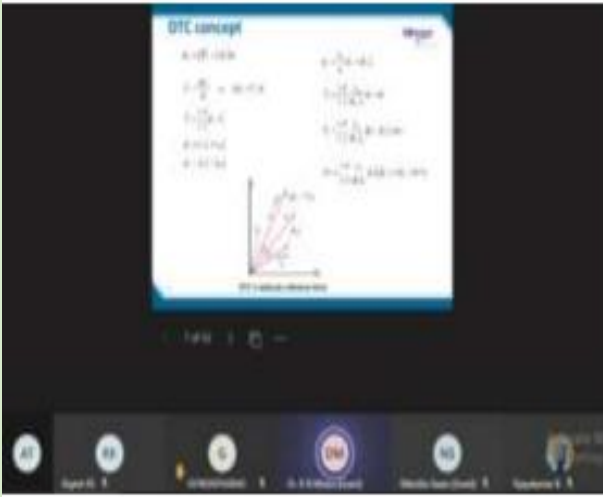
Mr. Akkenaguntla Karthik, Assistant System Engineer-Trainee at TCS was invited as a resource person for a webinar on “IT Skill: The Path way for a Successful Career in IT-Sector for Engineering Graduated” organized on 14<sup>th</sup> June 2021 by the Department of EEE, MITS. Around 190 students were benefitted.



Mr. Satheesh Kumar Jegadeesan, (Senior Electrical Engineer) Mott MacDonald & Company LLC, Oman was invited as a resource person for the workshop on “Electrical Substation Design” organized by the Department of EEE, MITS on 25<sup>th</sup> of June 2021.



The department conducted a workshop on 9<sup>th</sup> July 2021 with “Promoting Innovative Ventures: Role of Technology Business Incubator (TBI)” as the theme, Dr. Bheema lingeswar Reddy Inja Naga, Manager at SPMVV Society was invited as the resource person.



A webinar was organized by the department of EEE, MITS on 17<sup>th</sup> July 2021 with “Application of Artificial Intelligence (AI) in Induction Motor (IM) Drive” as the theme. The Department invited Dr. Rabi Narayan Mishra, Assoc. Prof., SIT, Bhubaneswar as the guest speaker, around 150 students and faculties were benefitted.



### GATE cut off marks

Cut Off Marks to qualify in GATE 2021 (Out of 100)

Branch	General	OBC	SC/ST/PH	AIR
EC	25.0	22.5	16.0	82.00
EE	30.30	27.2	20.2	85.33
CE	29.20	26.2	19.4	95.56
ME	33.0	29.7	22.0	93.22
CS	26.1	23.4	17.4	87.81
IN	36.0	32.4	24.0	79.00
PI	35.7	32.1	23.8	83.67

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### Important subjects for GATE - E

Subject	2017	2018	2019	2020	2021	2022	2023	2024
General Aptitude	10	10	10	10	10	10	10	10
Engg. Maths	10	10	10	10	10	10	10	10
Electrical Machines	0	0	10	10	10	10	10	10
Electric Fields & Circuits	10	10	10	10	10	10	10	10
Control Systems	10	10	0	10	10	10	0	10
Power Systems	10	0	10	0	10	0	10	0
Power Electronics	10	10	0	0	10	0	0	0
Signals & Systems	0	0	0	0	0	0	0	0
Analog Electronics	0	10	0	0	0	0	0	0
Measurements	0	0	0	0	0	0	0	0
Digital Electronics & VLSI	0	0	0	0	0	0	0	0

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Mr. P Ramesh from ACE Engineering Academy was invited as a resource person for the webinar on “Career Opportunities After B. TECH EEE” organized by the Department of EEE, MITS on 20<sup>th</sup> of September 2021.





Mr. K N S Hemanth (Subject Expert at OHM Institute Hyderabad, AIR 4 in IES, State 5th in AP TRANSCO, Alumni of BITS) was invited as a resource person for the webinar on “Career Opportunities after B. Tech and GATE Orientation” organized by the Department of Electrical and Electronics Engineering on 9<sup>th</sup> October 2021.



Dr. B Pradeep Kumar, Assistant Professor, Dept. of EEE, Kakatiya Institute of Technology & Science ) was invited as a resource person for the webinar on “Modelling of solar PV panel in MATLAB” organized by the department of EEE, MITS on 28<sup>th</sup> October 2021.

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**One Day ONLINE workshop on**  
**Opportunities & Challenges in Electric Vehicle (EV) Technology**

Organized by Department of Electrical & Electronics Engineering in Association with ISTE Student Chapter

Date : 13.11.2021 Time : 11 AM – 12 Noon

In-charge: Dr. N. Vijaya Bhaskar Choudary, Ph. D. Secretary & Correspondent

Patron: Dr. C. Yuvaraj, Principal

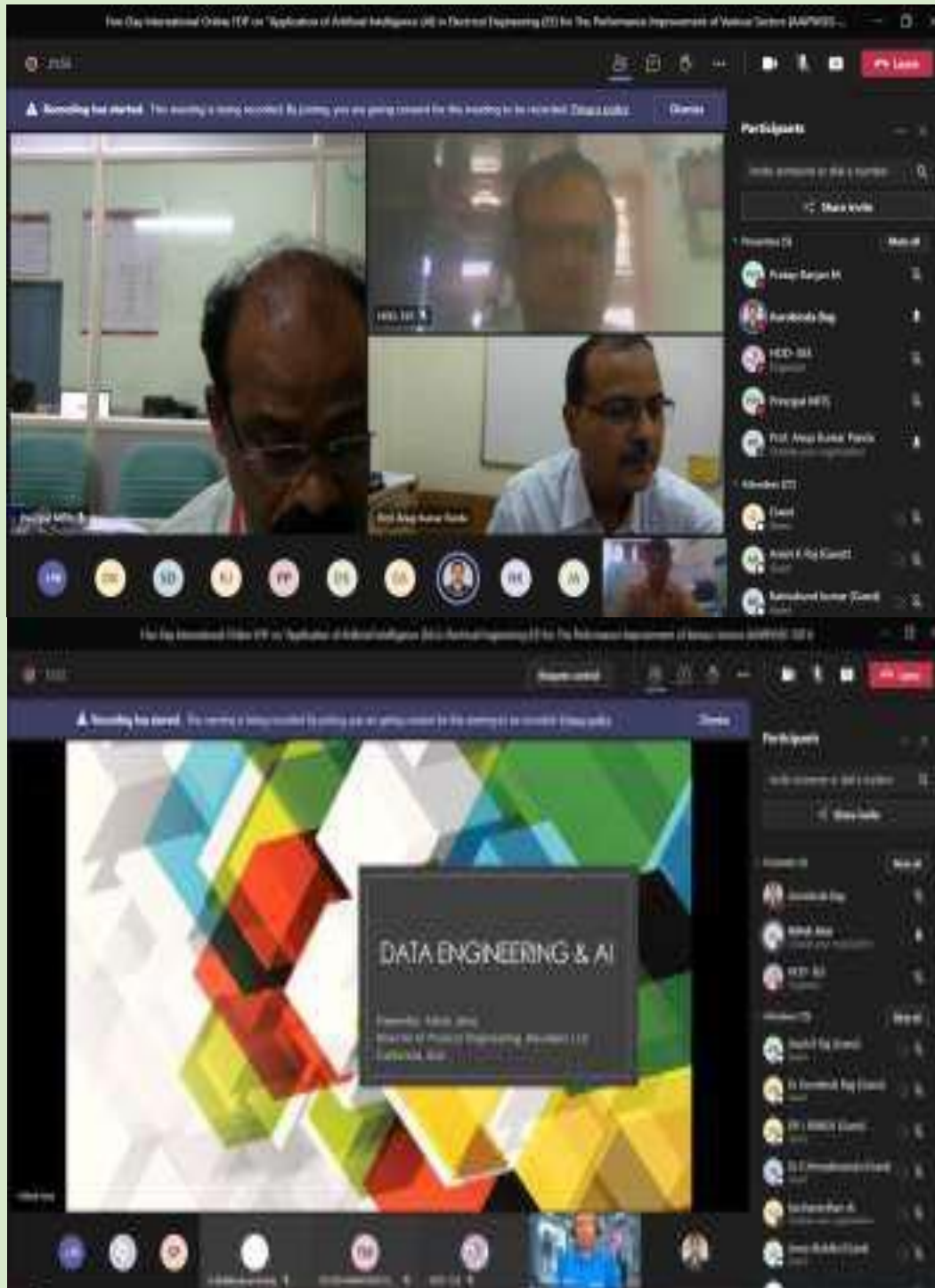
Convener: Dr. A V Favan Kumar, Head, Dept. of EEE

Faculty Coordinator: Dr. Pratap Ranjan Mohanty, Associate Professor, Dept. of EEE

Mr Ashhar Ahmed, Co-Founder & Director SkillShark EduTech, Hyderabad INDIA

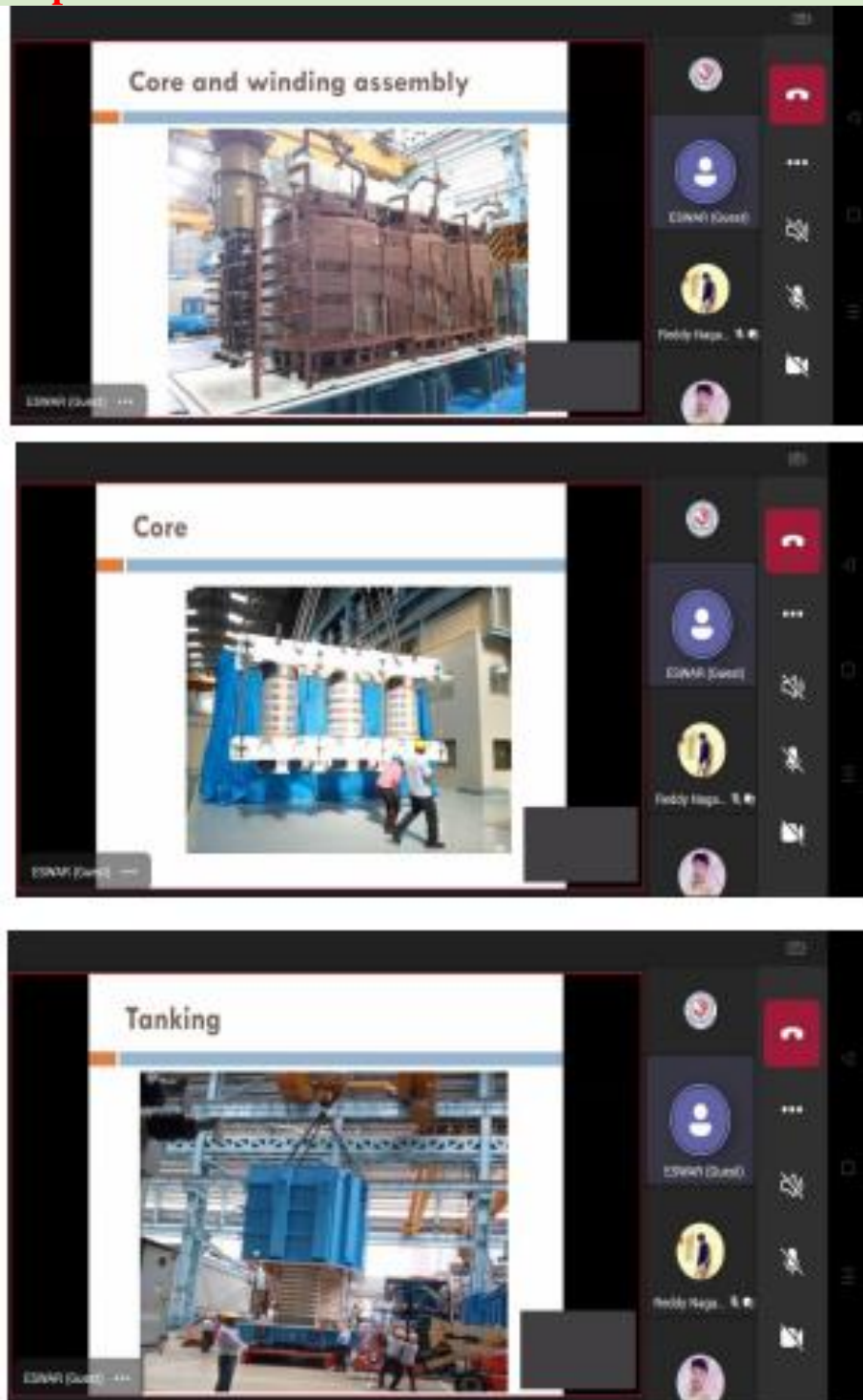
Link: [shorturl.at/uwRV2](http://shorturl.at/uwRV2)

Mr. Ashhar Ahmed, Co-Founder & Director Skill shark Edutech was invited as a resource person for a Workshop on “Opportunities & Challenges in Electric Vehicle (EV) Technology” organized by the department of EEE, MITS on 13<sup>th</sup> November 2021.



Prof. Anup Kumar Panda, Professor HAG, Dept. of EE, NIT Rourkela, INDIA was invited as a resource person for a Five-Day International Online Faculty Development Program (FDP) on “Application of Artificial Intelligence (AI) in Electrical Engineering (EE) for The Performance Improvement of Various Sectors (AAIEEPIVS-2021)” organized by the department from 24<sup>th</sup> August 2021 to 28<sup>th</sup> August 2021.

## Industry Expert Talk



Mr. P. Eswaramoorthy, Deputy Manager, Toshiba Transmission & Distribution Systems (India) Pvt. Ltd. Hyderabad interacted on the theme “Design, Testing and Application of Power Transformer” on 1<sup>st</sup> November 2021.

## **Workshops/ Trainings**

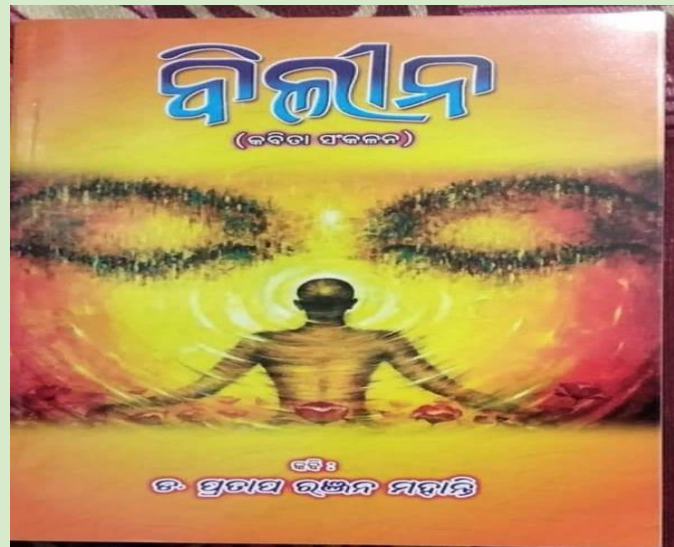
- ❖ Dr. A V Pavan Kumar attended a workshop on “Electrical Substation Design” organized by MITS, Madanapalle on 25<sup>th</sup> June 2021.
- ❖ Dr. A V Pavan Kumar attended a workshop on “NAAC Assessment and Accreditation: A step by Step process” organized by Chadalawada Ramamma Engineering College from 27<sup>th</sup> May 2021 to 29<sup>th</sup> May 2021.
- ❖ Mr. N. Sridhar attended a workshop on “Roadmap for Startup” for ISTE Student Chapter on 12<sup>th</sup> December 2020
- ❖ Dr. Arijit Bardhan Roy attended a workshop on “NAAC Assessment and Accreditation: A step by Step process” organized by Chadalawada Ramamma Engineering College from 27<sup>th</sup> May 2021 to 29<sup>th</sup> May 2021.
- ❖ Dr. A V Pavan Kumar attended a Faculty Development Programme on “AI and IoT- Based Technology for Precision Farming and Smart Agriculture” organized by AICTE Training And Learning (ATAL) Academy from 7<sup>th</sup> July 2021 to 11<sup>th</sup> July 2021.
- ❖ Dr. A V Pavan Kumar attended a Faculty Development Programme on “Global Warming & Impacts of Power Electronics Towards Green Technology” organized by AICTE Training And Learning (ATAL) Academy from 24<sup>th</sup> May 2021 to 28<sup>th</sup> May 2021.
- ❖ Dr. K. Arul Kumar attended a FDP on “Electric Vehicles” organized by AICTE Training and Learning (ATAL) Academy from 8<sup>th</sup> February 2021 to 12<sup>th</sup> February 2021.
- ❖ Dr. Arijit Bardhan Roy attended a FDP on “Role of materials in electric vehicles” organized by AICTE Training and Learning (ATAL) Academy from 7<sup>th</sup> June 2021 to 11<sup>th</sup> June 2021.
- ❖ Dr. Arijit Bardhan Roy attended a FDP on “Outcome Based Education” organized by Kalam Haranadha Reddy Institute of Technology from 21<sup>st</sup> June 2021 to 25<sup>th</sup> June 2021.

- ❖ Dr. Aurobinda Bag attended a FDP on “Inculcating Universal Human Values in Technical Education” organized by organized by AICTE Training and Learning (ATAL) Academy from 7<sup>th</sup> June 2021 to 11<sup>th</sup> June 2021.
- ❖ Dr. Arijit Bardhan Roy attended a Webinar on “Ecosystem Restoration” organized by Institution of Engineers (India), Rajasthan State Centre, Jaipur (Rajasthan) on 5<sup>th</sup> of June 2021.
- ❖ Dr. Hira Singh Sachdev attended a Webinar on “Introduction to Electric Vehicles (Power Electronics Converters)” organized by NIT Calicut on 21<sup>st</sup> January 2021.
- ❖ Mr. N. Shyamsundar attended a Webinar on “Detection of Cyber Grooming through the use of Behavioral Biometrics” organized by IEEE Bangalore Section and IEEE Mysore Subsection on 15<sup>th</sup> March 2021.
- ❖ Dr. AV Pavan Kumar underwent a Short term training on “Electric Vehicle Evolution -Impact on Power Grid” organized by Sri Venkateswara College of Engineering from 8<sup>th</sup> February 2021 to 13<sup>th</sup> February 2021.
- ❖ Dr. AV Pavan Kumar underwent a Short term training on “Outcome Based Pedagogical Initiatives for Effective Teaching and learning” organized by Masturi Engineering College from 17<sup>th</sup> May 2021 to 22<sup>nd</sup> May 2021.
- ❖ Mr. Sridhar N underwent a Short term training on “Industrial Robotics” organized by Mechanical Dept., Rajagopal Polytechnic College from 04<sup>th</sup> January 2021 to 9<sup>th</sup> January 2021.
- ❖ Mr. N. Shyamsundar underwent a Short term training on “Industrial Robotics” organized by Mechanical Dept., Rajagopal Polytechnic College from 04<sup>th</sup> January 2021 to 9<sup>th</sup> January 2021.
- ❖ Mr. N. Shyamsundar underwent a Short term training on “Trends and Challenges of Hybrid Electric Drive utilities in Transport Sector” organized by CBIT, Hyderabad from 22<sup>nd</sup> February 2021 to 27<sup>th</sup> February 2021.

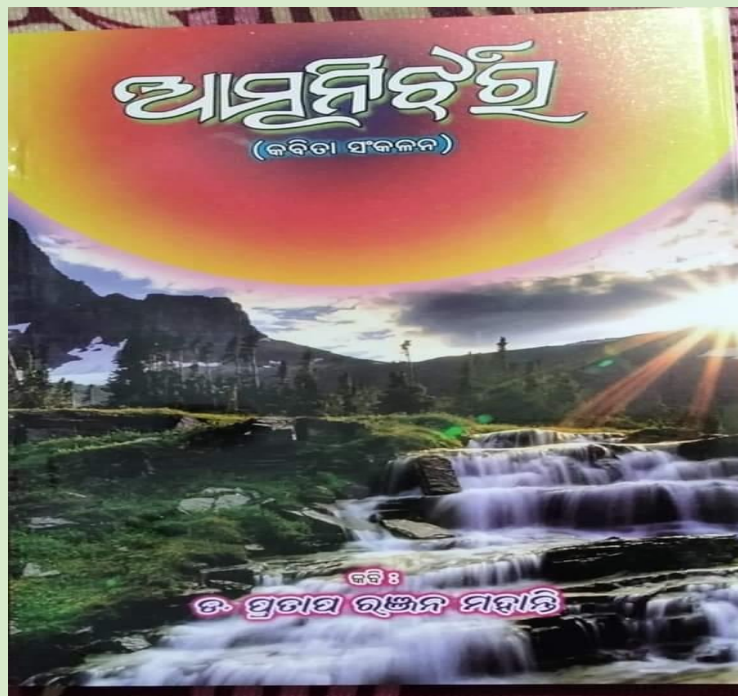
## Faculties Demonstrating Skills in Poetry

Dr. Pratap Ranjan Mohanty, Sr. Asst. Professor of our department has come up with two of his most recent publications in the field of Literature in the year 2021.

- ❖ The collection of poetry titled “Bilin”



- ❖ The collection of poetry titled “Atma Nirjhara”



## Faculty Publications

S.No	Faculty Name	Co-Author	Paper/Book title	Publisher
1.	Dr. A. V. Pavan Kumar	P. Balamuralikrishna, P. Sinha, M.K. Maharana, C. Jenab, K. Akkenaguntla	Pattern Recognition Technique Based Fault Detection in Multi-Microgrid	2021 IEEE 2nd International Conference on Applied Electromagnetics, Signal Processing, & Communication (AESPC)
2.	Dr. A. V. Pavan Kumar	P. Balamuralikrishna, P. Sinha, M.K. Maharana, C. Jenab, K. Akkenaguntla	Power System Fault Detection Using Image Processing And Pattern Recognition	2021 IEEE 2nd International Conference on Applied Electromagnetics, Signal Processing, & Communication
3.	Dr. Pratap Ranjan Mohanty	N. Patnaik, A.K. Panda, Richa Pandey	DEC fuel cell-based universal power compensator for dual PCC system	International Transactions on Electrical Energy Systems 31.4 (2021): e12805 (SCIE)
4.	Dr. Parth Sarathi Panigrahy	Paramita Chattopadhyay	Tri-axial vibration based collective feature analysis for decent fault classification of VFD fed induction motor	Measurement 168 (2021): 108460.
5.	Dr. Arijit Bardhan Roy	K. Vinay Kumar, Moumita Saha	Light management studies by using different surface texturing for thin c-Si solar cells	Applied Physics A 127.2 (2021): 1-12.
6.	Dr. M. Vijay	Gurubasavaraju T.M., Hemanth Krishna	Performance analysis of MR damper based semi-active suspension system using optimally tuned controllers	Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering 235.10-11 (2021):
7.	Mr. P. Balamuralikrishna	P. Sinha, M.K. Maharana, C. Jenab, AV Pavan Kumar, K. Akkenaguntla	Pattern Recognition Technique Based Fault Detection in Multi-Microgrid	2021 IEEE 2nd International Conference on Applied Electromagnetics, Signal Pro-



8.	Mr. P. Balamuralikrishna	P. Balamuralikrishna, P. Sinha, M.K. Maharana, C. Jenab, AV Pavan Kumar, K. Akkenaguntla	Power System Fault Detection Using Image Processing And Pattern Recognition	2021 IEEE 2nd International Conference on Applied Electromagnetics, Signal Processing, & Communication (AESPC)
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## Placement Statistics

### Year Wise Eligible and Placed Students

Sl. No.	Academic year	Total number of students	Eligible Students	Number of Offers
1	2020-21	137	100	100
2	2019-20	177	152	131
3	2018-19	142	142	98
4	2017-18	124	127	105
5	2016-17	70	71	50
6	2015-16	64	59	50
7	2014-15	69	63	48

### Year Wise Particulars of the Package

Sl. No.	Academic year	Highest Salary	Median Salary	Mean Salary	Lowest Salary
1	2020-21	450000	355000	370000	300000
2	2019-20	450000	350000	307737	180000
3	2018-19	450000	338000	293816	250500
4	2017-18	400572	250000	319146	120000
5	2016-17	315000	275000	257683	200000
6	2015-16	350000	300000	273995	120000
7	2014-15	320000	190000	215625	190000