



**MADANAPALLE INSTITUTE OF
TECHNOLOGY & SCIENCE**
(UGC-AUTONOMOUS)

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Recognised as Scientific & Industrial Research Organization by DSIR of DST

Circular Dated: 13-03-2019

All the students of B. Tech- II & III Year I semester are here by informed that a Guest Lecture Guest Lecture “SMART GRIDS is going to be conducted on 16-03-2019 how to create passion towards education with live examples and shared his thought on Smart Grids.

Please utilize the opportunity without fail

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Copy to: 1. All the II & III-B. Tech Class rooms.

2. Circular to Notice Board

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

Report on

Awareness Program On “SMART GRIDS” Organized by Department of Electrical and Electronics Engineering 16-03-2019



Submitted by : Dr A V Pavan Kumar, Sr. Assistant Professor, Dept. of Electrical and Electronics Engineering

Organized in association with: MITSAWA

Submitted by: Dr A V Pavan Kumar, Sr. Assistant Professor, Dept. of EEE

Resource Person: Mr. K.B.VENUGOPAL, Associate Project Engineer, ABB GLOBAL INDUSTRIES AND PRIVATE SERVICE LIMITED, Chennai, IN. (MITS Alumnus)

Faculty attended:

Dr K R Kashwan, Dean ECE-EEE;

Dr Lakshmanan S A, Academic Head EEE;

Dr P Ramesh Reddy, MITS Alumni Relation Officer;

Dr A V Pavan Kumar, EEE Dept. Alumni Coordinator;

EEE Faculty: Dr M Vaigundamoorthi, Dr M Chakkarapani, Dr Hira Singh Sachdev, Dr Arijit Bardhan Roy, Dr Soumya Ranjan Mahapatro,

Students Attended: EEE: Second year (24), Third year (103)

Venue: ME Seminar Hall (South Block)

The Guest lecture started by 10 Am, the guest speaker **Mr. K. B. VENUGOPAL, Dr K R Kashwan, Dean ECE&EEE, Dr Lakshmanan S A, Academic Head EEE, Dr P Ramesh Reddy, MITS Alumni Relation Officer** were invited to the dais.

Dr K R Kashwan, Dean ECE&EEE addressed the students by enlighten them how to create passion towards education with live examples and shared his thought on Smart Grids.

Dr P Ramesh Reddy, MITS Alumni Relation Officer enhance the importance of bridging the gap between academics and industry through Alumni guest lectures.

The guest speaker was introduced to the audience by **Dr Lakshmanan S A**, Academic Head EEE.

The Guest Speaker focused the presentation on Job opportunities in Core sector, Importance of Smart Grid, Software required to get employment in Smart Grid projects being carried in India.

- 1. Difference between Conventional Grid and Smart Grid:** Highlighted the drawbacks in conventional grid and how these drawbacks are addressed with the help of smart grid technology. The drawbacks including power outage, inter connected power flow arrangement, auto reclosure of the circuit breakers in the distribution system.
- 2. Smart Energy Meter:** The key element in smart grid is smart meter. Which establishes connection or communication between power distributor and consumer. Based on the demand-supply the unit price of electricity is communicated to costumer. The costumer can choose based on the tariff to use all equipment in house or not to minimize the electricity bill.
- 3. Different Smart Grid Projects in India:** 1)CED, Chandigarh (Sub Division 5), 2)CED, Chandigarh (Complete City excluding Sub Div 5), 3)KSEB, Thiruvananthapuram (Kochi), 4)JBVNL, Jharkhand (Ranchi), 5)OPTCL, Odisha (Rourkela),6)AVVNL, Ajmer, 7)APDCL, Assam, 8)CESC, Mysore, 9)HPSEB, Himachal Pradesh, 10)PED, Puducherry, 11)TSECL, Tripura, 12)TSSPDCL, Telangana, 13)UHBVN, Haryana, 14)UGVCL, Gujarat, 15)WBSEDCL, West Bengal, 16)IIT Kanpur, 17)SGKC, Manesar
- 4. Smart Grid Project work experience:**
 - 1. Project** : HR Mission smart grid project
 - 2. Customer** : UHBVN(Uttar Haryana Bijli Vitran Nigam)
 - 3. Project Scope:** Engineering, manufacturing, supply, installation, testing and commissioning of 11KV VCB Panels and LCB C&R Panels with outdoor equipment's.

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4. Technical support to FFEC, Japan and LOTUS Wireless for communication setup establishment.
 5. **Project Stages: 2**
 6. Stage 1: Establishment of 2VCB Panels and 6 Sets of Outdoor type LBS C&R Panel, LBS, VT & CVT Units at HPTI- Haryana Power Training Institute
 7. Stage 2: Establishment of 4VCB Panels and 22 Sets of Outdoor type LBS C&R Panel, LBS, VT & CVT Units at city of Panipat
 8. **Project Summary:** This project covers the 11,000 consumers with 70MU input consumption.
5. Different software's used in designing the smart grid project components. Explained the importance of learning software's such as **AutoCAD, E3, E-Plan, Micro Station, E-Tap, CET** as the future is smart substations and Digital Substations.
 6. In order to be employable importance of semester gap internships and online courses to enhance the knowledge are key components.

The session ended with an interaction with the students followed by felicitation to the Resource person.

Paper Clips

మిట్స్ లో స్మార్ట్ గ్రిడ్స్ పై అవగాహన సదస్సు

ప్రతిభా-ఉదయం ఆర్ట్స్

అంశు సహాయక విద్యార్థి, విద్యార్థులకు స్మార్ట్ గ్రిడ్స్ అను అంశు అవగాహన సదస్సును నిర్వహించారు. ఈ కార్యక్రమంలో డాక్టర్ వరప్రసాద్ కళాశాలకు చెందిన పూర్వ విద్యార్థి కె.వి.వెంకటేశ్వర్, ఆటోనియం ప్రాజెక్ట్ ఇంజనీర్, ఎ.పి.సి. గ్రోప్ ఇంటర్నేట్ అండ్ సర్కిల్ సెట్ ప్రైవేట్ లిమిటెడ్ నుండి పాల్గొన్నారు. ఈ సందర్భంగా ఆయన మాట్లాడుతూ స్మార్ట్ గ్రిడ్స్ అంటే వైపి అయినా వరుసగా తరుణంలో ఏదైనా రంగంలో స్మార్ట్ గ్రిడ్ అంటే ముఖ్యం అన్నారు. స్మార్ట్ గ్రిడ్ అనగా స్మార్ట్ మీటర్లు, స్మార్ట్ అవ పరికరాలు, ప్రవేశాత్మక ఇంటర్ వర్సులు, ఇంటర్ నెట్ వర్క్ వంటివి సహజంగా సహజంగా ఉన్నాయి.



అవగాహన సదస్సును పూర్తి చేస్తున్న కె.వి.వెంకటేశ్వర్

విద్యార్థులకు తెలియజేయాలన్నారు. ముఖ్యంగా స్మార్ట్ గ్రిడ్ సహాయంలో ఏదైనా కోర్సు ఏదైనా అంటే ఆయన ఆసక్తికరమైనట్లున్నారు. స్మార్ట్ గ్రిడ్ సహాయంలో స్మార్ట్ గ్రిడ్ ప్రాజెక్టులను ఏర్పాటు చేయడం, అవుట్ పుట్ లో లాభాన్ని పొందడం అంటే అవగాహన అవుతుంది అన్నారు. ఈ కార్యక్రమంలో కళాశాల ప్రెసిడెంట్ డాక్టర్ సి.యం.రామ్, విభాగాధ్యక్షుడు డి.వి.ఎం.ఎ.కాశాంబ, అధ్యాపకులు రమేష్ రెడ్డి, డాక్టర్ వరప్రసాద్ వంటివారు పాల్గొన్నారు.

Date: 11 March 2019
 Email: prajnaakti@nit.ac.in/23799344

ABB Global Industries and Services Company (Chennai) Associate Project Engineer Venugopal said: "Smart grids" knowledge in the power sector is important. Under the aegis of the Department of Engineering, II and III B.Tech students conducted an awareness program on Saturday. Venugopal was the Resource Person for the event about Smart Grids he was speaking on the occasion and described the knowledge of Smart Grids can be used sophisticatedly and Smart grids will be used in power generation, supply and equipment manufacturing. This will not only reduce the cost of production, but also reduce the supply and disrupts the power supply. Dr. Yuvraj, Principal, Dr. Asharani, Dr. Ramesh Reddy and faculty participated in the program.

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(UGC-AUTONOMOUS)


Computer Science & Engineering(Academic Year 2018-19)

SMART GRID TECHNOLOGY

16-03-2019

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1	17691A05C1	SANDYA. C	Sandya
2	17691A05C2	SAI AKHIL. L	Akhil
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4	17691A05C4	SAI CHAITANYA YADAV. S	Chaitanya
5	17691A05C5	SAI LEELA. G	Leela
6	17691A05C6	SAI RISHITHA. C	Rishitha
7	17691A05C7	SAINATH REDDY. K	Sai Nath
8	17691A05C8	SAIPAVANITHA. T	Pavanitha T
9	17691A05C9	SANJEEVAIAH. T	SANJEEVAIAH
10	17691A05D0	SATHVIKA. M	Sathvika
11	17691A05D1	SHALINI. K M	Shalini
12	17691A05D2	SAI KARTHIK REDDY. N	Karthik
13	17691A05D3	SIREESHA. K	Sireesha.k
14	17691A05D4	SIREESHA. M	Sireesha M
15	17691A05D5	SIVA. B	Siva
16	17691A05D6	SNEHA REDDY. K	K.Sneha Reddy
17	17691A05D7	SOUMYA. P	Soumya
18	17691A05D8	SRICHAITRA. P	Chaitra
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20	17691A05E0	SUJITH KUMAR. R	Sujith Kumar R
21	17691A05E1	SUMANTH. K	Sumant
22	17691A05E2	SUMIYA. T	Sumiya T
23	17691A05E3	SUNAYANA. A	A.Sunayana
24	17691A05E4	SUNIL KUMAR REDDY. D	Sunil
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26	17691A05E6	SUSHMA. S	Sushma
27	17691A05E7	SUSHMITHA. N	Sushmitha
28	17691A05E8	TEJASWINI. G	Tejaswini.G.
29	17691A05E9	THANUJA. T	Thanuja.T
30	17691A05F0	THANUSHA. N	N.Thanusha
31	17691A05F1	THARUN KUMAR. V	Tharun Kumar
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37	17691A05F7	VAMSI KRISHNA. M	Vamsi Krishna.M
38	17691A05F8	VAMSIDHAR REDDY. P	Vamsidhar.P
39	17691A05F9	VARSHITHA. K	Varshitha
40	17691A05G1	VEENA LATHA. G	Veena Latha.G
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42	17691A05G3	VENKATA PRASAD. R	Prasad
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48	17691A05G9	VIJAY KUMAR. K	Vijay Kumar
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50	17691A05H1	VIVEK. D. P	Vivek. D.P.
51	17691A05H2	YASHASWINI. B	Yashaswini. B.
52	17691A05H3	YOGENDRA. K	YOGENDRA
53	17691A05H4	YUVANARASIMHA. G	Yuva Narasimha
54	17691A05H5	YUVARAJ. G	Yuvraj
55	17691A05H7	K ABDUL KHADAR	K. Abdul Khadar
56	17691A05H9	SAI GANESH. K	Sai Ganesh
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60	17691A05I3	MUZAMMIL. T.S	T.S. Muzammil
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