

NEWS LETTER (ODD SEM 2019-2020)

HOD's NOTE:

It gives me an immense pride and pleasure to lead the Electrical and Electronics Engineering Department which provides an ideal blend of youthful enthusiasm and core professional experience for the budding electrical engineering aspirants.

Electrical and Electronics Engineering is the front-runner because of its recognition and adoption by all industries and academia, thereby gaining self-confidence of our students to compete successfully with all competitive disciplines.

The field of Electrical and Electronics Engineering encompasses many technologies such as power systems, electrical machines, control systems, electromagnetic theory, power electronics and computer techniques employed in all these areas, which have been among the fastest growing and most challenging technologies that enable the development of the modern society.

Electrical and Electronics Engineering enjoy a high demand service status in modern manufacturing and industrial processes. The need cater the ever-growing demand for trained professionals in the field led to the establishment of Electrical and Electronics Engineering Department at SKSVMACET In 2010.

The Department Electrical and Electronics Engineering committed to provide a blend of fundamental core knowledge along with cutting edge technologies to create an Electrical Engineer who can cope with the requirements of the Industry or to become an entrepreneur.

The department encompasses a fine blend of renowned as well as young and dynamic faculties with a balanced mix from industry and academics. Most of our faculties have excellent track records.

The infrastructure and lab facilities are upgraded periodically to provide in-depth training and creative environment for the students.

The department library, seminar hall, digital class rooms, effective mentoring, encouragement to take part in curricular and co-curricular activities provides great opportunities to the students in the field of Electrical and Electronics Engineering

The department conducts various programs under the students association Astellas such as Workshops, Technical Training, Project-expo, Guest Lectures and Seminar by the experts from Industry and Academic background for constant knowledge up-gradation of staff and students.

Department of Electrical and Electronics Engineering

We continue to play a leading role in our discipline which leads us towards creating an innovative and effective professional graduate community to take care of the societal needs.

I extend my warm wishes to all budding Electrical Engineers.

Mr.SanathkumarT.P

Head of Department

Department Coordinator Note:

A journey of thousand miles begins with just a single step. As I take the first few steps towards coordinator ship for this year, I am filled with immense gratitude for having been given this opportunity. We are extremely happy in releasing the odd semester (August 2019 and January 2020) newsletter. This Newsletter highlights the activities organized & conducted by Electrical and Electronics Engineering department. In this edition, I have tried to capture last six months activities of the department. I heartily congratulate the staff and students for their active participation in various events like workshops, seminars, technical talks etc. The success of this newsletter depends on your response. I would appreciate your feedback.

Ms.Nirosha.H

Asst.Professor

EEE Department

Vision of the Program

To achieve academic excellence in Electrical & Electronics Engineering by imparting profound knowledge to the students, facilitating innovative activities and cater to the ever changing industrial demands, and societal needs with contemporary and emerging technologies.

Mission of the Program

M1: To align the teaching learning process, peer learning to provide basic foundation in the program.

M2: To attain multidisciplinary problem solving skills, social awareness and confidence required to excel in their chosen field.

M3: To provide technical expertise along with professional ethics as per societal needs.

M4: To connect industry and Institute piers through bridge of solutions by interdisciplinary research and innovations

Programme Specific Outcomes (PSOs)

Department of Electrical and Electronics Engineering

PSO1: Employ fundamental knowledge of electric engineering to identify, formulate and design the power system, control system and embedded system.

PSO2: Contribute for the development of smart power grid and integrating green energy on it to meet the increasing societal needs.

Programme Education Objectives (PEOs)

PEO1: Possess strong educational foundation in Electrical & Electronics Engineering to build successful career.

PEO2: Ability to transform Electrical & Electronics Engineering solutions into broader social context.

PEO3: Promote professionals with leadership quality, human values, and social commitment towards environment friendly utilization of electrical energy.

PEO4: Inculcate attitude to develop and adopt new technologies as it evolves.

STUDENTS ASSOCIATION ACTIVITIES

Electrical students association named as "ASTELLAS" is a platform for students to develop skills. Every year different activities are conducted for development of soft skills, aptitude, sports, cultural, technical knowledge apart from syllabus, etc. of students under the banner of "ASTELLAS"

The following students are the body members of ASTELLAS association.

1. President- Mr. Abhishek K
2. Vice President - Ms. Simran Taj
3. Technical coordinator - Mr. Dhanraj & Ms. Shridevi B
4. Cultural coordinator - Mr. Kirankumar & Ms. Madhu
5. Sports coordinator - Mr. Manjunath. G & Ms. Vinoda
6. Library coordinator - Mr. Vishwanath. C
7. Treasurer - Mr. Faheem

Events (01-08-2019 to 31-01-2020)

1. Association Reopening and Technical Talk

Department of Electrical & Electronics Engineering organized association reopening function and technical talk on "LoRA WAN" on 18/09/2019 at civil seminar hall of

Department of Electrical and Electronics Engineering

SKSVMACET, Lakshmeshwar. Mr.Vinayak.Dhogade, Technical consultant, Microsoft, Hubli was the chief guest and the speaker for this session. Mr.Sanathkumat.T.P, HoD of EEE presided over the function. Dr. Devendra.K, Chief coordinator academicsof SKSVMACET was the guest of honour. The speaker delivered talk on Importance of LoRA WAN,Current Technological Trends of LoRA WAN, Role of LoRA WAN in IOT. Approximately 100 students attended the technical talk session. Mr. Raghavendra.Shiglicordinated the event.



Image. No: 1: Address by HOD, Mr.Sanathkumar during association reopening

2. Visit to in house power grid

Department of Electrical & Electronics Engineering organized a visit to In house power grid on 17-08-2019. 32 students visited the power grid with staff Mr.Iranna.M&Mr.Manjunath.H. Students understood the organization of In house power grid, Operation of metering cubicle and distribution transformer &Specifications of the campus Generator set and automatic switching mechanism



Image-2: Mr.Iranna.M&Mr.Manjunath.H are explaining the components of grid.

3. Field Visit to Govinal solar power grid

Department of Electrical & Electronics Engineering organized a visit to solar power plant on 19-9-2019. Mr.Iranna.M&Mr.Manjunath.H coordinated the event, 32 students visited the plant. O&M Engineer Mr.GirirajKudari explained the students about the installation procedure, Specifications of the solar panels used. The working of solar panels along with sensors & motors for automatic positioning (Tracking of sun), Interconnection of PV arrays to the control room, Operation of Inverters to convert DC to AC, Step up transformer to boost the voltage level for the required voltage & Transmission of generated power to the KPTCL with tariff plan.



Image-3: Students Photo taken at the time of visit with O&M Engineer Mr.GirirajKudar, Mr.Iranna.M&Mr.Manjunath.H

4. Field Visit to Varahi Hydro Power Plant.

Department of Electrical & Electronics Engineering organized a visit to Hydro power plant on 11-10-2019.48 students attended with staff Ms.Nirosha.H, Mr.Mallaiah.B&Mr.Ravi.Sadlapur. The Operation & Maintenance staff of the power plant explained the following to students & staff-The Plant layout and the history of varahi hydro project.-The Installed capacity of the plant.-The Specifications of the water turbine and the generators used in the plant.-The control of various units from the control room.-The SCADA Mechanism used in the plant.-The Transmission system and protection system installed.



Image-4: Students Photo taken at the time of visit with staff Ms.Nirosha.H, Mr.Mallaiah&Mr.Ravi.Sadlapur

5. Field Visit To BTPS

Department of Electrical & Electronics Engineering organized a visit to plant on 18-10-2019. 28 students visited plant with staff members Mr.Mallaiah, Mrs.Pratima.K&Mr.Devendra.P. The Operation & Maintenance staff of the plant explained the following to students & staff -The Plant layout and the history of Ballary Thermal Power project.-The Installed capacity of the plant.-The Wagon tripping & crushing mechanism of coal & Transportation of coal Pieces to the plant. -The operation of Boilers, Steam turbines & generators used in plant.-The Control room & operation.-The Transmission system and protection system installed in the plant.



Image-5: Overview of BTPS



Image-6: Students Photo taken at the time of visit with staff Mrs.Pratima.K, Mr.Mallaiah&Mr.Devendra.P

6. Technical Talk on smart power systems & Grid Automation

Department of Electrical & Electronics Engineering organized a Technical Talk on smart power systems & Grid Automation on 05-11-2019. Dr. Santoshkumar. Hampannavar, Professor, EEE Dept. REVA University Bengaluru was the Resource Person. Speaker delivered a talk on "Introduction to Artificial Intelligence and Machine Learning". Mr. Manjunath. Hombal Coordinated the event. 90 students took

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part in this event. Key Takeaways form the Event is-The Innovations in the conventional power system.-The IoT Enabled power system equipments.-The Organization and operation of Smart Grid.-The differences between Conventional grid & Smart grid.-Distributed generation & grid automation techniques.-Operation of Phasor measurement unit.



Image-7: Photo clicked during inauguration of talk.



Image-8: Presentation on "Introduction to Artificial Intelligence and Machine Learning" by Dr.Santoshkumar. Hampannavar, Professor,EEE Dept. REVA University Bengaluru .

7.Field Visit to 110KV Substation Laxmeshwar.

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Department of Electrical & Electronics Engineering organized a Field Visit to 110KV Substation Laxmeshwar on 29-10-2019. Mr.Mallaiah.B coordinated this event.46 students visited the substation.The Operation & Maintenance staff of the Substation explained the following to students & staff- The Plant layout of the substation.-The operation of Stup Down Transforms, Circuit Breakers, Relays.-The operation of Lightning arrestors.-Importance of grounding.-Various metering devices installed.- Switching operation of various feeders.- Operation of CTS & PTS.



Image 9:The Operation & Maintenance staff of the Substation explaining about the transformers.

8.MoU between SKSVMACET & Shantala group Hubballi

SKSVMACET signed MOU with Shantala group Hubballi on 29/11/2019.This MOU is executed between EEE,CIVIL & MECHANICAL Engg departments of SKSVMACET Laxmeshwar&Shantata Group Hubballi.MoU is signed by Dr.U.S.Hampannavar Principal SKSVAMCET Laxmeshwar&Mr.Vinod. General Manager (Technical & Training) Shantala Group Hubballi.

This MoU helps SKSVMACET in the following aspects.-To conduct various technical trainings to our students by shantala engineers.-To understand the innovations happening in the core areas in the industry.-For Internship & placements of students in the Shantala Group and other related industries.-Consultancy work between college and the Shantala Group.



Image 10:MoU signing between SKSVMACET & Shantala Group,Huballi.

Workshops conducted/attended

1. Ms. Nirosha.H, Mr.Mallaiah.B, Mr.Manjuanth.V&Mr.Iranna.M attended five day workshop on "Artificial Neural Networks and its Applications" from 27/01/2020 to 31/01/2020. Dr.Amod kumar and Dr.Maitriyee Dutta of NITTR, Chandigarh were the resource persons. The objective of attending the workshop is to get a brief overview of ANN and Deep Learning.
2. Mr.SanathKumar.T.P attended STTP on OBE & NBA accreditation from 27/01/2020 to 01/02/2020 organised by KLEIT,Hubbali, Sponsored by TEQUIP, VTU

PUBLICATIONS

1. Mr.SanathKumar.T.P published a paper entitled"Improvement of Power Quality in an Adapative Boost PFC Converter with generation of PWM control signal by cascading power factor & chaos controller circuits"in IJEIT.ISSN:2249-8958,Volume-9,Issue-2,December 2019.

STUDENT BEST PROJECTS (Ongoing Projects)

1. **Project Title:***Solar Based Agri Robot*

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Imp of Projects: Solar based Agri robot is designed to dig the soil, feed the seed, leveler close to soil and can spray fertilizer. These robot works on Solar power and battery.

Guide Name: Mr. Basavaraj.Banakar

Project Members: Mr. Akshay.B, Mr.Faheemakthar. S, Mr.Vishwanath.S.N, Mr.Sagar.Hotti

Recognition Details: KSCST

2. **Project Title:** Protection and data acquisition of 3 phase asynchronous motor

Importance of Project: It provides protection and fault identifying facility in real time by collecting information of 3 phase asynchronous motor.

Guide Name: Mr. Sudheendra Yalagur

Project Members Ms. AradhanaGubbi, Mr. Krishna Devagirikar, Mr. PavanMutalik, Ms. Susan Rubdi

Recognition Details: VTU Financial Assistance.

3. **Project Title:** Medical Drone

Importance of Project: Use of UAVs for medical supply delivery will alleviate suffering & provide many citizens with a chance to recover from illnesses. This system provides first aid kit to the patients and assist the Doctors using sensors

Guide Name: Mr.Mallaiah.B

Project Members Ms. Sindhu N.H, Ms. Simran Taj Hussiankalas , Mr. Ajay.Drongagiri, Mr. MrityunjayHugar

Recognition Details: VTU Financial Assistance.

TECHNICAL COMPETITIONS

Nil

ACADEMIC PERFORMANCE

1. Toppers List

Department of Electrical and Electronics Engineering

Rank	1st Semester	3rd Semester	5th Semester	7th Semester
1 st		Ms. Chaitra.Kanamath (81.75%)	Mr. Manjunath.B (80.0%)	Ms. Shalini N (84.25%)
2 nd		Ms. Bhagyalaxmi.B (76.25%)	Ms. Sharada.P.H (77.12%)	Ms. Sneha.P.Kannapanavar (84.12%)
3 rd		Mr.Shiva.Hosamani (72.5%)	Ms. Kavya.M.Sadari (76.87%)	Ms. Sindu.N.H (82.37%)

2. 1st Sem result Analysis

Total Appeared	47	
FCD	20	42.5%
FC	15	32%
SC	02	4.2%
Total Pass	37	78.72%
Total Fail	10	21.28%

3. 3rd Sem result Analysis

Total Appeared	34	
FCD	04	11.76%
FC	09	26.47%
SC	02	5.88%
Total Pass	15	44.11%
Total Fail	19	55.89%

4. 5th Sem result Analysis

Total Appeared	32	
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FCD	12	37.5%
FC	13	40.62%
SC	02	6.25%
Total Pass	27	84.37%
Total Fail	05	15.62%


5. 7th Sem Result Analysis

Total Appeared	62	
FCD	24	38.70%
FC	24	38.70%
SC	03	4.83%
Total Pass	51	82.25%
Total Fail	11	17.74%

TRAINING AND PLACEMENT DETAILS

Sl. No.	Name	USN	Name of the Employer	Photo
1	Mrutyunjay S. H.	2KA16EE019	Infosys Ltd. (3.6 LPA)	

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2	HarishkumarBasapur	2KA16EE012	QSpiders	
3	Sneha S. K.	2KA16EE039	QSpiders	
4	Akshay U. B.	2KA16EE005	QSpiders	
5	PrasannaNaikar	2KA16EE023	QSpiders	
6	AradhanaGubbi	2KA16EE006	Technologies Global Pvt. Ltd.	
7	Pavan C. Mutalik	2KA16EE021	Kodnest	

Smt Kamala& Sri Venkappa M. Agadi College of Engineering & Technology, Lakshmeshwar

Department of Electrical and Electronics Engineering

CULTURAL EVENTS PARTICIPATION

NIL

SPORTS EVENTS PARTICIPATION

Ms.

STAFF ACHIEVEMENTS

NIL