



**NARAYANA**  
ENGINEERING COLLEGE :: NELLORE  
(APPROVED BY AICTE, NEW DELHI & PERMANENTLY AFFILIATED TO JNTU, ANANTHAPURAMU)

# Newsletter **N-SPARK**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Jan - June 2018**

**Volume - I**

## **Editorial Board Members**

**Dr.G.Venkateswarlu**, (Chief Advisor)  
**Mr.N.Krishna Mohan**, (Chief Editor)

## **Student Editors**

**Md.Yunus**, III EEE  
**K. Kavya sree**, II EEE  
**B. Anil Kumar**, I EEE

## **COLLEGE**

### **Vision of the Institute**

To be one of the nation's premier Institutions for Technical and Management Education and a key contributor for Technological and Socio-economic Development of the Nation.

### **Mission of the Institute**

To produce technically competent Engineers and Managers by maintaining high academic standards, world class infrastructure and core instructions.

To enhance innovative skills and multi disciplinary approach of students through well experienced faculty and industry interactions.

To inculcate global perspective and attitude of students to face real world challenges by developing leadership qualities, lifelong learning abilities and ethical values.

## **Department**

### **Vision of the Department**

To impart knowledge in the field of Electrical and Electronics Engineering to meet the technical challenges of industry and society with strong innovative skills, leadership qualities and ethics.

### **Mission of the Department**

To provide standard training and effective teaching learning process to the students by using the state-of-the-art laboratories, core instruction and efficient faculty.

To enhance competent, innovative and technical skills amongst the students through training programs by industry and external participation.

To inculcate leadership qualities, ethical values and lifelong learning skills in learners to serve the society and nation for overall development through value based education.

## **Program Educational Objectives (PEOs)**

Programme Educational Objectives (PEOs) of B.Tech (Electrical and Electronics Engineering) program are: Within few years of graduation, the graduates will

**PEO-1:** To solve composite problems using mathematics, basic sciences and engineering principles in the domains of testing, design and manufacturing.

**PEO-2:** To achieve higher positions in their profession by demonstrating leadership qualities, research and innovative abilities.

**PEO-3:** To contribute in the field of Electrical and Electronics Engineering to finding solutions for societal problems through their lifelong learning skills and ethical values.

## **Program Outcomes (POs)**

**PO-1** : Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO-2** : Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO-3** : Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.



**PO-4** : Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO-5** : Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**PO-6** : The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO-7** : Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO-8** : Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO-9** : Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO-10** : Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO-11** : Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO-12** : Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### PSOs of the Department

On completion of the B.Tech. (Electrical and Electronics Engineering) degree, the graduates will be able to

**PSO-1**: Provide alternate solutions to address the problems with specific requirements in the field of Electrical and Electronics Engineering.

**PSO-2**: be ready to work professionally in relevant industries like power systems, control systems and software industries.

### Guest Lecture on Vector Analysis and Coordinate Systems

Guest lecture on "Vector analysis and coordinate systems" was organized at Narayana Engineering College, Nellore for the students of II B.Tech EEE On 9/1/2018. The session was conducted by Mrs.N.Santhi Kumari. This lecture helps the students to perform well in their exams.

### Guest lecture on Power Semi Conductor Drives

Guest lecture on "power semi conductor drives" was organized at Narayana Engineering College, Nellore, for the students of III B.Tech EEE On 11/1/2018. The session was conducted by Mr.U.Naresh Babu.



### Guest Lecture on Analog Circuits

Guest lecture on "Analog circuits" (Based on Gate Syllabus) was organized. The session was conducted by Mr. Koti Reddy, Ace Institute.



at Narayana engineering college, Nellore, for the students of IV B.Tech EEE On 10/1/2018 & 11/1/20

### Guest Lecture on Scope research in Electrical Engineering

Guest lecture on "scope research in electrical engineering" was organized at Narayana engineering college, Nellore, for the students of II B.Tech EEE On 11<sup>th</sup> jan 2018. The session was conducted by our college Alumni Mr.K.Siva theja, Research work (on Micro Grids), New Delhi.



### Guest Lecture on Awareness on Competitive Exams

Guest lecture on "Awareness on competitive exams" was organized at Narayana engineering college, Nellore, for the students of II B.Tech EEE On 15<sup>th</sup> FEB 2018. The session was conducted by our college Alumni Mr. Y.Vishnu, preparing for government jobs.

In this session they discussed how to improve student's logical reasoning or thinking performance in competitive exams and also discussed important topics in electrical engineering related government jobs.



### Guest Lecture on Electromotive Force

Guest lecture on "ELECTROMOTIVE FORCE" was organized at Narayana engineering college, Nellore, for the students of II B.Tech EEE On 17<sup>th</sup> march 2018. In this session they discussed the important topics of EMF and also about the topics regarding the competitive exams.



### Carer Guidelines & Importance of Electrical Engineering

Guest lecture on "Career Guidelines & Importance of electrical engineering" was organized at Narayana engineering college, Nellore, for the students of II B.Tech EEE On 20<sup>th</sup> March 2018. The session was conducted by our college Alumni

1. B.Vamsikrishna, Capgemini Pvt Ltd Bangalore,
2. B.Sasidhar, Techmahindra, Chennai,
3. G.Deepak Babu, Bosch, Bangalore (Technical),

4. B.Praveen, Bosch, Bangalore (Technical). In this session they discussed how to improve logical reasoning or thinking performance in competitive exams and also discussed important subjects in electrical engineering related to government jobs.



### Guest Lecture on Career Guidelines

Guest lecture on "Career Guidelines" was organized at Narayana engineering college, Nellore, for the students of II B.Tech EEE On 22<sup>nd</sup> March 2018. The session was conducted by our college Alumni MS. P. Haritha, Wellsfargo, Bangalore (Software).

In this session she enlightened the students about how to face an interview and the strategies to be adopted. It also included contents how to frame a Resume when you seek a job and the impact of body language, dressings, confidence,



### Guest Lecture on Signals and Systems

Guest lecture on "Signals and systems" was organized at Narayana engineering college, Nellore, for EEE students on 20<sup>th</sup> Aril 2018. The session was conducted by M.Koti Reddy, ACE -Hyderabad. In this session they discussed about important topics in signal and systems that are useful for writing GATE exam.





## Cancer Awareness Program

On 23<sup>rd</sup> February Narayana engineering college, Nellore organized a “cancer awareness program” for the all EEE students by Dr. Srinivasulu, Ramachandra hospitals Nellore. In this session he discussed the Objectives of the Cancer Awareness and Educational Program.

- To create awareness of the disease.
- To educate people about the key risk factors of cancer since more than 30% of cancer cases could be prevented by modifying lifestyle or avoiding the key risk factors.
- To inform people about the importance of cancer check-ups at an early stage.



## Speeches on great Personalities

To improve student’s communication skills Narayana engineering college, sakala student association has organized the event “Speeches on great personalities” for all EEE students (II, III, IV B.Tech STUDENTS) on 20-1-2018.



## Distributing Pamphlets for Safety Precautions of Electricity

On 24<sup>th</sup> March 2018 Narayana engineering college, Nellore organized the NSS event Distributing Pamphlets for Safety Precautions of Electricity by our students.

This event gives the instructions for the people to investigate accidents and understand the importance of “near miss” identification. This course is intended for safety committee members, supervisors, Technicians, safety, Line Employees and those employees who may be part of an accident investigation Team.



## Aptitude & Reasoning

To improve student’s logical reasoning or thinking performance Narayana engineering college, sakala student association has organized the event on Aptitude & Reasoning for all the EEE students (II, III, IV STUDENTS) on 6-1-2018.



## PPT on Latest Technologies

To improve student’s communication skills narayana engineering college, sakala student Association has organized the event on PPT on latest technologies for a III, IV B.Tech STUDENTS on 24-2-2018. Such events benefit the students in Participation adds interest for students, Initiate the discussion, Speak politely and pleasantly, Knowing latest technology.



## Speeches on great personalities

To improve student's communication skills Narayana engineering college, sakala student association has organized the event "Speeches on great personalities" for II B.Tech STUDENTS on 03-03- 2018.



## Technical Quiz

The Department of Electrical and Electronics Engineering has conducted a Technical Quiz competition for II, III&IV B.Tech students on February 3<sup>rd</sup> 2018. The Quiz has been conducted with an intention to judge and enhance the understanding level of Electrical basic concepts. The students were excited to participate as they got the platform to assess their knowledge level acquired till date in the area of basics concepts in electrical engineering. Total 10 teams are participated in the Quiz competition.

The quiz was organized by the faculty in-charge Mr. T. V.SubbaRao, Asst Prof (EEE,Dept) and Sakala student coordinators .



## PPT on Latest Technologies

To improve student's communication skills narayana engineering college, sakala student Association has organized the event on PPT on latest technologies for all the EEE students (II, III, IVSTUDENTS) on 24-2- 2018. Such events benefit the students in following ways:

1. Participation adds interest for students
2. Initiate the discussion
3. Speak politely and pleasantly
4. Acquire and apply knowledge
5. Knowing latest technology
6. Speak confidently
7. Use positive body language



## Cancer Awareness Program for Girls

On 22<sup>nd</sup> February Narayana engineering college, Nellore organized a "cancer awareness program for girls" for all the EEE students by Dr.Srinivasulu, Ramachandra hospitals Nellore.

The entire presentation covered the aspects like: Probable Symptoms that cause breast cancer, ways to identify it in early stages to be cured off like Dimpling, Puckering, Stretching pain in the back etc.,. They suggested precautionary measures like avoiding cholesterol rich fat diet, alcohol intake, reducing obesity based on the BMI standard, curtailing use of tobacco, etc.





## Awareness Program for Women's Safety

On 13/4//2018 Narayana engineering college organized the women's forum event "Awareness program for "women's safety" by women's forum co-ordinator.

The program was chaired by M.Vijaya, Member of Jana Vignanavedika & total 98 girl students, 5 faculty members are participated in Edison auditorium. Such programs give the instructions to the girls to get awareness on their safety.



## IoT & WEB DEVELOPMENT

To improve students practical knowledge Narayana engineering college, Department of EEE organised three day hands-on training "IOT&WEB DEVELOPMENT" in association with Xcelerator from 23/1/2018 to 25/1/2018.



## Alumni Meet

An Alumni Meet is organized in Narayana Engineering College to celebrate and refresh old relationships and form new ones on 27/1/2018. It is an occasion when students gather and go down the memory lane and look forward for new interactions with new hopes. In response, few of the alumni shared their experience as well as interesting moments of campus life to the audience.



## Farewell Party

Narayana engineering college, Nellore organized Farewell Party "NEVER SAY GOODBYE" on 30<sup>th</sup> march 2018 at the college auditorium, where students of B. Tech 3<sup>rd</sup> year bid farewell to the outgoing students of B. Tech final year with great enthusiasm. Function began with a floral welcome of Mr. Dr.G.Srinivasulu Reddy, Principal, Dr.G.Venkateswarlu, HOD of EEE and staff.





Lightning of Lamp was done by Principal & HOD followed by the prayer song. Principal Sir wished good luck for the final year students for their future. He also expressed his hope among the students that, they will continue holding best positions in upcoming university exams. Final years gave inputs to 3<sup>rd</sup> years to go ahead in building their careers. Most of the placed students shared their experiences in interviews such as GD, Aptitude, Verbal Reasoning and HR session. They guided their juniors about the various fields that can be opted once they are in final year and gave them suggestions regarding the Universities providing specific courses based upon the students interest and grades. Juniors also got the opportunities to discussed about their career. Final year and third year students entertained by their group dances, solo dances, group songs and solo songs. Students of final year participated in Ramp Walk, It was an incredible day hosted and organized by juniors. The day ended with capturing memories with photo sessions, and delicious lunch.



**INDUSTRIAL VISIT**



On 6/4/18 EEE III B.Tech students got permission to visit 33/11 KV substation, near NEC, Nellore under the guidance of our department. The substation has the voltage of 33/11KV which is supplied to various areas in Nellore. We started from college at 10.00a.m. The A.E of substation explained the components and their working. Some of the components we had seen in the substation such as current transformer, SF6, circuit breakers, inductive reactors in different ranges, lighting arrestors, control panels etc.

Such industrial visits organized by Narayana engineering college to help the students to enhance their practical knowledge on industrial sites



**INDUSTRIAL VISIT - SHAR**

On 1/5/18 EEE III B.Tech students got permission to visit SHAR near Sullurpeta under the guidance of our department. We started from college at 7.00 am. There Asst.Scientists explained and showed the video of launching the Rockets. Some of the components we had seen in the space Museum.





## National Level Technical Symposium in Electrical Engineering (NTSEE-18)

On 17<sup>th</sup> February 2018, Narayana engineering college, Nellore, Deptat of EEE organized a “National level technical symposium in electrical engineering” (NTSEE-18). The technical events like paper presentation, poster presentation, technical quiz, working model were held in a lively manner. The college had the privilege to invite the eminent personalities like B.N. SENTHAL KUMAR & CH.NAGARAJU, for Inaugural function. Both the chief guests inspired the students with their speeches. The event was an appropriate platform for students to come up with their own innovative ideas in their respective streams. Some students are actively participated as volunteers and some of them proved their skills in various events. In this event Over 500 people attended and 150 students are participated from various colleges.



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