



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA  
PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR



Department  
Of  
Electronics and Telecommunication Engineering

***Technozone***

***News-Letter***

**2014-15**

## MESSAGE FROM THE HODs DESK



At the outset, I would like to thank the faculties and the students who have been doing exemplary support and contributions in the department! Having officially decreed as the HoD of the ET Department is both a challenge and an opportunity! A challenge - to harness my leadership skills to address the areas of improvement in the department! An opportunity - to work along with highly-esteemed staff and very-much-willing-to-learn students! I subscribe to the belief that “one must find meaning in one’s daily work”. The best work happens when you know that it is not just a work, but something that will improve other people's lives. This is a guiding principle that catalyzes and drives each one of us at the ET department!

This newsletter will provide the readers a glimpse of our department which includes various activities like seminars, workshops, extra curricular activities, industrail vivits conducted this year.

Happy Reading!!

**The Vision of the Institute is:**

To become one of the India’s leading engineering institutes in both education and research. We are committed to provide quality and state of art technical education to our students,so that they become technologically superior and in turn contribute for creating a great society.

**The Mission of the Institute is:**

We commit ourselves to Pursuit of excellence in Technical Education and promise to uphold the Spirit of the Professionalism to serve the humanity.

**The Vision of the Department is:**

To achieve excellence in academics and research by imparting quality education in the rapidly changing field of Electronics and Telecommunication Engineering

**The Mission of the Department is:**

- To educate the students with the state of art technologies to meet the growing challenges of the industries and educational institutions.
- To equip the students with strong foundations to enable them for continuing education and research.
- To provide ethical and value based education by promoting activities addressing the social needs.

## STUDENT ACHIEVEMENT

### **Toppers in Third Semester**

- |                       |        |
|-----------------------|--------|
| 1. Manisha Gajbhinkar | 72.3%  |
| 2. Prakash Kumar      | 72.15% |
| 3. Preeti Kumari      | 71.69% |

### **Toppers in Fifth Semester**

- |                   |        |
|-------------------|--------|
| 1. Akanksha Gupta | 70.68% |
|-------------------|--------|

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2. Shivani Motharkar 70.15%

3. Monali Basak 69.07%

**Toppers in Seventh Semester**

1. Rajat Jain 79.7%

2. Arpan Balpande 77.28%

3. Rinku Gaykhar 77.14%

## **VISITING LECTURE ON ELECTRONICS DEVICES AND CIRCUITS**

As a part of the curriculum a Visiting Lecture for the subject “Electronic Devices and Circuits” was conducted for the students of third semester. The resource person for this lecture was Ms. Meenakshi Chippa, Director, Electus Robotics, Pvt. Ltd.



The purpose of this lecture was to provide knowledge about the circuit designing of the subject. The fear of EDC subject was removed from the mind of students and many of the doubts were cleared. The topics covered in the seminar were Diode and its types, MOSFETs, Multivibrators.

## **SEMINAR ON MICROCONTROLLER AND EMBEDDED SYSTEM**

The knowledge of microcontroller and the new technologies invented in the embedded systems is important to develop engineering basics. Keeping this in mind a seminar on Micro-controller and Embedded System was conducted by Mr. Akash Dhok. He provided provide detailed knowledge about micro-controller.



The students were satisfied and learned many new things regarding programming. The students showed enthusiastic participation for the same. Sixty five students of IV Semester attended this seminar.

## **SEMINAR BY HR MENTORS ON MBA ENTRANCE (CAT) PREPARATION**

The purpose of his seminar was to create awareness and provide information regarding CAT Examinations. About seventy students of VI and VIII Semester attended this seminar where the speaker was Mr. Hitesh Devnani



The speaker gave instructions related to the MBA entrance exam. The students were made aware related the courses of MBA and the benefits of doing MBA. The students were satisfied and learned details regarding the courses of MBA and doing the MBA after the graduation.

## WORKSHOP ON “DTMF CONTROLLED ROBOT”



Robotics is one of the new leading and progressing fields in the 21<sup>st</sup> century. Engineering students are keen to learn the designing and programming of a robot. ETC department supports and motivates the students' desires to learn in these innovative fields. A workshop on DTMF Controlled Robot was conducted for such enthusiastic students by Ms. Meenakshi Chippa, Director, Electus Robotics, Pvt. Ltd.



Throughout the event the students got beneficial knowledge about the designing and programming of the robot. They actually programmed the robot and made it work. Due to this workshop the students

got the practical knowledge about robotics and its future applications.

## ORIENTATION PROGRAM ON TCS RECRUITMENT PROCESS



Under career guidance cell, an orientation program on TCS Recruitment Process was conducted by Mr. Sudip Nair, Sr. Technical Associate TCS. The purpose of this seminar is to make aware of the students regarding selection process of TCS.



Students were briefed about the details of TCS Company. The students acquired beneficial knowledge about various technologies that support cloud computing and how it can be used for Application development. Students understood the criterion and selection

process of TCS and the working domain of TCS.

### **APTITUDE TRAINING PROGRAM**



The purpose of this program was to test the readiness of the students for upcoming campus. For this activity, Mr. Rishi Chaurasiya Vikalp Education, Nagpur was invited.



Students have given hands on Online Practice of aptitude test of various companies. They also understood the tricks of Solving aptitude Test questions and Paragraph writing. They also informed the students how to write Email and Corporate readiness.

### **SEMINAR ON ABROAD EDUCATION**



The purpose of this seminar was to motivate the students for higher studies in overseas. Fifty eight students attended the seminar conducted by Mrs. Shreya Lubhana, Southern Cross University, Australia and Mr. Ajay Dhande CEO of Global Connection, Nagpur. Students got the information about the higher studies in abroad. Students also informed about the various universities, entrance exams for them. They were also informed about the various scholarship schemes for higher studies.

### **SEMINAR ON RECRUITMENT REDINESS SESSION**



The purpose of this seminar was to create awareness regarding the campus drive. For the students of seventh semester. Mr A Motghare , T & P Incharge, PCE Nagpur conducted this session. He students were informed about the preparation for the upcoming campus. They were also

enlightened about how to prepare for the companies and the pattern for aptitude test. The speaker also focused on how to groom up the personality.

### SEMINAR ON RESUME WRITING



This seminar was conducted by the Soft skill Department, PCE, Nagpur. In this seminar the student were instructed about how to prepare the curriculum vitae and what are the points to be added. Students has got the information how to mention the academic qualifications and areas to be projected in resume writing.

### SEMINAR ON HOW TO PREPARE FOR GATE AND PSU



The speaker of the seminar was Mr. Prashant Kumar, ICE GATE academy.

The seminar provided a good platform for the students to prepare for competitive

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exams in public sector and higher studies. They were also informed about the specific subject to be prepare and to be focused. Students understood the time management tricks.

### GUEST LECTURE ON ENTREPRENEURSHIP DEVELOPMENT ON ENHANCING EMPLOYABILITY INDEX



The purpose of this guest lecture was to make students the aware of business orientation programme. Prof Mahadeo Gaidhane , EDP Cell, PCE , Nagpur was invited as the guest speaker.



The seminar was really fruitful for seventh semester students of Electronics & Telecommunication Engineering. During the session students acquired knowledge about how to manage the capital for business. They also got the information of Do's and Don'ts of the business. The

speaker also informed them about the various sources of loan facilities.

### **WORKSHOP ON PERSONALITY DEVELOPMENT**



This workshop was conducted by Soft Skill department, PCE for the students of Fifth Semester. The purpose of this workshop was to enhance the communication Skills of the students. The students were provided with useful information to improve their communication skills, to increase the vocabulary, group discussion tips. It was an informative session.



## FORUM INSTALLATION - TELE-ERA



The Forum Installation Ceremony of the Students' forum - Tele-Era is conducted every year to form a structure of a committee of student members for the conduction of various, activities in Department and to maintain discipline and Harmony. This year too the ceremony was conducted with great enthusiasm. Dr. M P. Singh (Principal), Dr. J P. Modak, Dean (R&D), LTJSS, Dr. (Mrs.) S.W. Varade, HOD, E&T Department and all the faculties were present to grace the occasion.



The students forum was formed and the President, Vice-President, Treasurer elected along with the formation of various other committees. The Event was followed by a guest lecture on 'Robotics'. The resource

person for the guest lecture was Ms. Minakshi Chippa from "Electus Robotics".

## SHODH 2K15- PROJECT COMPETITION (POLY)



Twenty one groups of students from various Polytechnic Colleges participated in the Mega event of the department "Shodh" 2K15 Project Competition. Mrs. Shubhangi Rathkantiwar was appointed as the mentor to guide and channelize the students. The project competition was especially held for diploma students so as to give them a platform to display their projects. These projects were hardware and software based. This competition helped the students improve their technical and communication skills. The experts guided the students and also suggested some modifications in the project.

## SHODH 2K15- PROJECT COMPETITION (FOR UG STUDENTS)

This competition was especially arranged for the final year students. The students appearing for the project competition gained useful insight regarding the various types of projects. The students faced the challenges with a competitive spirit. The

project competition was held on a national level.



Forty seven groups of students from various Engineering Colleges participated in the event.

#### **SHODH 2K15 - ELECRAMA 2K15 (Robo race)**



The event focused on robotics and the latest technologies in its field. The students of various departments showed Enthusiastic participation in the Robo-Race. There were 15 teams of students and each team consist of 5 members each. Dr. (Mrs.) S.W.Varade handed the winning cash prizes to the winning team. Throughout the event the participants showed the qualities of technicians with their fair play. Each participating team received certificate of

participation. The event helped to encourage new technology among youth.

#### **SHODH 2K15 - ELECRAMA 2K15 (Robo soccer)**



ELECRAMA 2K15 was conducted to motivate the students for enhancing their technical knowledge and skills those who take the keen interest in the technical areas. The students of various departments showed Enthusiastic participation in the Robo-Soccer. There were 10 teams of students and each team consists of 2 members each. 10 teams of students and each team consist of 2 members each from various Engineering Colleges

#### **SHODH 2K15 - ELECRAMA 2K15 (Techno circuit)**



There were thirty five groups of students and each group consist of 3 members each

from various Engineering Colleges. Throughout the event the participants showed the qualities of intellectual with their fair play. Tele-Era organizing committee members, faculties were inspecting the event each participating team received certificate of participation.

### **SHODH 2K15 - ELECRAMA 2K15 (Techno quiz)**



There were 15 teams of students and each team consist of 2 members each. The quiz began with a screening aptitude test followed by various technical rounds which had pictorial as well as audio questions. The students enjoyed various technical rounds of the quiz. The event helped to encourage new technical as well as general knowledge among youth.

### **SHODH 2K15 - MINI PROJECT COMPETITION**

The mini project competition had 20 groups of students and each group consist of 3 members each from VI

semester.



This was held in order to provide hands-on experience to the students so that they can do better projects during their final semester. 20 teams of VI semester students participated in the exhibition. Each team worked on unique projects taking help from the faculty members and senior students.



The projects varied from simple electronic alarm circuits to complex robotics, depending on the interest levels of the students.

## FOUNDER'S DAY CELEBRATION



This day marks the birthday celebration of the founder of LTJSS group Dr. Satish Chaturvedi Sir, Chairman, LTJSS. The faculties and students of the department visited Shree Sant Gadge Baba Bahuddessia Sanstha, Hudkeshwar, Nagpur. They spent some time with the children. Sweets and clothes were distributed among the children in the Sanstha.

## FRESHER'S DAY CELEBRATION



Freshers Day provides a platform to the third semester students to interact with the faculties and seniors of the department. They also get familiar with rules and regulations and policies of the department.

## TEACHER'S DAY CELEBRATION



The Birth Anniversary of Dr. Sarvapalli Radhakrishnan is celebrated as Teacher's Day all over India. ETC Department also celebrates this day of appreciation of teachers every year.

## ALUMINI MEET



Alumni Meet is organized to provide platform for alumni's to meet their old friends, teachers and to share the experiences of their college life as well as professional life. In this alumni meet, the alumina had a great time with all the teachers and their old friends. Games were organized for the pass out students. They all enjoyed a lot.

## **BLOOD DONATION CAMP**

Under the banner of Tele-era, the Students' Forum of the Department a blood Donation Camp was arranged. The event motivated everyone to donate blood. It gave a social message about helping others and to donate blood so that it can be provided to the needy person on time.

## INDUSTRIAL VISIT- BSNL (Regional Training Telecom Centre) Nagpur



The Industrial visit was organized to help the students familiarize about the practical aspect of telephone exchange. For providing technical know how about telephone exchange Mr. Nilesh Pillewar, SDE, BSNL guided the students throughout the visit.



It has setup NIB (National Internet Backbone) to provide world class data network infrastructure to offer various value added services to a broader customer base countywide that is helping to accelerate the Internet revolution in India. Moreover the NIB has created a platform, which enables e-governance, e-banking, e-learning, etc. with the key point of Service Level Agreements & Guarantee in tune  
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with Global standards and customer expectations.

## INDUSTRIAL VISIT- SM Wireless Solution



SM Wireless Solution is world class example of implementation of Data Network of ISP (Internet Service Provider) Dr.S.D. Moghe, Director, SM Wireless provided details about the ISP. The visit was helpful for the students to familiarize the students about the IC fabrication, to know about topologies, specifications of required IC to know about IC designing, packaging and testing.



SM Technologies has its six sister concern branches all over the Maharashtra to offer various value added services to a broader customer. Students actually came across the various steps involved in manufacturing of ICs .Practical

observations of Integrated circuit under the microscope is done. They got Information how the work carried out at various foundries and information about the foundries in Taiwan and in Japan.

**INDUSTRIAL VISIT- PRASAR BHARATI  
(Doordarshan Kendra) Nagpur**

picture scanning, switching methods. The students saw the technology used in video shooting, the various angle adjustment of cameras, applications of parabolic antennas, different lens used in Cameras, maintaining the picture quality aspect ratio study of interlace scanning control circuits & control lines used to mixing of RGB colors.

Doordarshan was a household name in the 80's in India. Nagpur has its own Prasar Bharti Kendra where the students of PCE were taken for visit. Mr. S. Meshram, Sr. Technical Engineer, Prasar Bharti was the person who provided detailed information to the students about the kendra.

The students were familiarized about broadcasting, various antennas, specifications of transmission waveguides,

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