Electronics & Telecomm. Engineering

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PERSPECTIVE OF HOD

Prof. S S Shirgan
HOD, E&TC

I take the privilege to welcome you all to the Dept. of Electronics & telecommunication at N. B. Navale Sinhgad College of Engineering, Kegaon, Solapur. The department seeks to combine excellence in education and research with survive to the industry. Our laboratories have been very well established not only to cover complete syllabus but to motivate students to learn beyond the syllabus which definitely develops complete knowledge of the subject and develop skill sets of students to become promising engineers in future. The core values of the department help the students to develop their overall personality and make them worthy technocrat to compete and work at global level. Our department has been conducting various workshops, STTPs to keep the faculties and students to enhance the knowledge in their domain.

VISION OF DEPARTMENT

To develop competent technocrats who strive continuously in pursuit of professional excellence in the field of Electronics and Telecommunication Engineering.

MISSION OF DEPARTMENT

- ♦ To nurture the education eco-system by providing the state of art facilities and competitive environment for continuous improvement in Teaching-Learning process.
- ♦ To make students aware about the responsibilities towards ethical, societal and environmental insights while pursuing their curricular activities.

GOALS AND OBJECTIVES OF DEPARTMENT

- ♦ To adopt and implement the best educational practices for continuous improvement of teaching-learning process.
- ♦ To inculcate comprehensive knowledge amongst students for achieving their goals in electronics and allied fields.
- ♦ To develop state of art laboratories in association with reputed industries and institutes for project based learning and research activities.
- ♦ To motivate and guide students for attaining higher Ranks in University and Competitive Examinations.
- ♦ To implement activity plan for overall development of students.

- ♦ To strengthen the students with essential skills for Higher Education and increase Placements in Industries.
- ♦ To initiate relevant Value addition program and certifications for improving employability.
- ♦ To foster entrepreneurship among the students through innovative ideas and solutions for the betterment of society.
- ♦ To encourage and promote Consultancy and Research Activities.
- ♦ To establish Professional Bodies, students forum for life skill development.
- ♦ To be recognized as center of excellence

Online Workshops & Seminars

Online One Week FDP on Free and Open Source Software

One Week Online Faculty Development program on **Free and Open Source Software** for Electronics and Electrical Engineering was organized by E&TC and Electrical Engineering Department of NBNSCOE Solapur. In this FDP department faculties have worked as resource person and delivered session on **use of various Free and open source software in Engineering Education.** The Co-ordination of the activity is done by Prof. R. S. Khamitkar .

This program was conducted on 28th June to 02nd July 2021.Around 49 Faculties from various colleges participated in this activity.

Sessions conducted by
Prof. F. I. Kazi   Prof. A. B. Surwase   Prof. R. S. Khamitkar

E Quiz Competition

An exciting E Quiz Competition was held by ETOS on 20th Feb 2021 from 3:00 pm to 4:00 pm. The quiz competition was held under the guidance of Dr S S Shirgan. The event was held online through Google forms. The ETOS Coordinators and Prof. F. M.Valsangkar accomplished the challenge of conducting this online quiz in the COVID-19 pandemic even by not being physically present with each other. The quiz was held for the students studying engineering at NBNSCOE.48 students participated in this event.

Online Two Day National level Workshop on Use of VLAB

Online Two day workshop on use of VLAB is organized by NBNSCOE Solapur. In this workshop E & TC department Faculties have worked as resource person and delivered session on use of various Virtual LABs. The Co-ordination at institute and department is done by R. S. Khamitkar. The Workshop is organized in association with College of Engineering, Pune.

Prof. F. I. Kazi, Prof. S. P. Tapkire, Prof. M. D. Mali, Prof. V. N. Jokare, Prof. A. B. Surwase, Prof. R.S. Khamitkar worked as a resource person. Around 160 students participated in this activity.This program was conducted on 9th and 10th March 2021.Students get aware with use of online tools & able to design & analyze different practical related to analog & digital electronics.

Students Achievements

Low cost Oxygen Ventilator

अभियांत्रिकीच्या विद्यार्थ्यांनी बनविले 'लो कॉस्ट ऑक्सिजन व्हेंटिलेटर'

अभियांत्रिकीच्या विद्यार्थ्यांनी जपले समाजभान
कारच्या वायपर मोटारचा वापर करून बनवले व्हेंटिलेटर

B.E (E&TC) students Zainulabedin Ziya Shaikh ,Pooja Gurav and Santoshi Wale under the guidance of Prof.S.S.Hippargi developed 'Low cost Oxygen Ventilator'.This machine contains AMVU bag, artificial manual breathing unit bag. By using car's wiper, and speed controller pulse rate was measured. This device useful in small hospitals and especially in village areas. This project received winner award in DISTA 2k21 Project Idea Presentation and PRAYOG 2k21 competition.

PRAYOG 2k21

It's a Institute level Project Competition cum Exhibition where T.Y. B. Tech. and B. E. students get an opportunity to present their project in front of all students and teacher from institute. Evaluation of the project is done by experts. For year 2020-21, due to pandemic situation it was decided to conduct the Competition online. Students have enthusiastically participated in the event. Three Panels of expert have been formed to evaluate the students' project work. Rubrics were formed and were circulated to students well in advance so that they can prepare themselves for the competition.

Toppers of the Department

S.Y		TY		BE	
Name of Student	SGPA	Name of Student	CGPA	Name of Student	CGPA
DARGOPATIL SWATI MALLINATH	10	RAIKAR SONALI DEEPAK	10	SHIRHATTIMATH SAMEER . R	10
BAMANKAR MOHINI NAVNATH	10	KURAPATI RUCHITA LAXMAN	10	SADIWAL APARNA SANJAY	10
BAGLI SAMREEN RAFIQ	10	GOSKI MANISHA RAJENDRA	10	GAJUL SHRILEKHA AMBADAS	10

DISTA 2k21

In view of COVID-19 pandemic situation **DISTA 2K21,** National Level Technical Symposium for degree and diploma students was conducted online on **24th April 2021**. **Project Idea presentation and Virtual Drive** was the events organised by Electronics and Telecommunication Department.; The whole event at department level co-ordinated by **Prof.M.D.Mali.** Around 140 participants were participated in this event. ETOS student co-ordinators Sayema Royali, Shashikant Pathrut, Sonali Raikar, Amruta Digole , Abhilash Bingi, Prafull Machha and total team executed the event.

Our Students Recruited Through Campus Drive

Cognizant and TCS	Cognizant			Accenture	Modak
Sameer Shirhattimath	Shrilekha Gajul	Shradha Thite	Pooja Dolle	Zainulabedin Ziya Shaikh	Sadaf Shaikh

QSpider				QSpider and Byjus
Laxmi Atnure	Vaishnali Sarvade	Pratibha Nikambe	Sheya Karande	Ravali Inumella

Webinar on Sensors and Actuators in Industrial Applications (IoT)

Webinar on "Sensors and Actuators in Industrial Applications (IoT) & Playing Minecraft using Block codes " was conducted on 16th May, 2021.Around 234 students from different colleges registered and attended the program. Prof.V N Jokare conducted this webinar. Basic concept of sensors and actuators, different models of sensors in IOT applications, information collection and classification using machine learning was discussed in this webinar.

Webinar on Project Based Learning

Webinars on "Project based Learning" was conducted by Prof.R.S.Khamitkar on 23rd and 30th May, 2021 . Around 120 students from different colleges attended these sessions. Different topics regarding project learning such as selection of project,group formation,project activity roadmap,resources utilization,simulation and animation implementation of hardware and software,testing,results,report writing etc. was discussed in this webinars.

Webinar topic was covered in two parts. In first session pre-requisites was discussed and in second session practical issues was covered. This session was helped for tackling the real life practical issues. Challenges faced by students in completing project work was discussed at the end of the program.

Department Achievements

Faculty Achievements

- Prof.S.S.Shirgan attended Short term Course on A 'Free and Open Source Software (FOSS) Tools for Effective Teaching-Learning' Through ICT (1 Week) by NITTTR Chandigarh.
- Prof.S S Hippargi attended attended 2Workshops of 1 week duration based on
  - Internet of Things approved by AICTE & ISTE.
- Prof.R S Khamitkar attended 3 One Week programs –
  - i) AICTE-ISTE Sponsored online Induction / Refresher programme on Data Science in Engineering Applications
  - ii) Internet of Things (IoT)
  - iii) Artificial Intelligence and Machine Learning
  - He attended Short term Course on A 'Free and Open Source Software (FOSS) Tools for Effective Teaching-Learning' Through ICT (1 Week) by NITTTR Chandigarh.
  - Participated and completed AICTE Training and Learning (ATAL) academy online Elementry FDP on Machine Learning Applications in Micro-Nano VLSI Technologies.
  - Attended Two Days National Level Workshop on Research Methodology – A Practical Approach for Engineers
  - Attended International Conference on Information and Communication Technology for Intillegent Systems (ICTIS 2021) and Presented Paper titled A survey on using Machine Learning to Counter Hardware Trojan Challenges Through digital Platform Zoom.
  - Worked as Toycathon Evaluator of Toy Ideas in PAN India competition by Government of India Initiative
- Prof.F.I. Kazi completed LATEX101x online course conducted by IIT Bombay and attended STTP on 'Innovation Management'.
- Prof. M.D.Mali has attended 4Workshops on :
  - Design and Fabrication of VLSI Circuits
  - LATEX101x online course conducted by IIT Bombay.
  - Emerging Trends in AIML
  - Machine learning and it's applications
- Prof..S.P.Sagat attended 2 FDPs on :
  - Data Analysis and Visualisation
  - LATEX101x online course conducted by IIT Bombay.
  - Attended one day FDP on Step by step guide to write a review paper and publish it.
- Prof.F.M.Valsangkar attended 2 FDPs on :
  - Emerging trends and challenges ML,
  - IoT, and Cyber Security.
- Prof.V.R.Marathe attended 2STTP/FDPs based on :
  - Recent Advancement in AI & Robotics
  - Internet of Things (IoT)
- Prof.S.P.Tapkire completed LATEX101x online course conducted by IIT Bombay and attended STTP on 'Innovation Management'.

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