NEWS LETTER

Department

of

Electronics &
Telecommunication
Engineering

S.V.S.M.D's

Kai. Kalayanrao (Balasaheb) Ingale Polytechnic, Akkalkot

Electronics & Telecommunication Engineering Department

Welcome to the Department of Electronics and Telecommunication Engineering, It gives me great pleasure to convey my best wishes to Newsletter of E&TC department for the academic year 2019-2020. The departments have a state of art facilities and highly qualified faculty. The department works with the objective of addressing critical challenges faced by the Industry, society and the academia perhaps even more important is our continuous commitment to our students, helping them to learn, grow, develop, and achieve their goals in their pursuit to excel in their Professional career.

I wish good luck to the entire team and look forward for your kind patronage to newsletter.

Mr. Khilari V.S.
Head of Department

Vision

To provide quality education for developing rural youth into skillful Electronics &Telecommunication Engineer to serve the needs of industry & society

Mission

1. To establish the learning environment for better understanding of Electronics & Telecommunication engineering concept through workshops.

2. To develop professional & technical skills of students by internship training & expert lecture.

3. To prepare the diploma graduates who serves to fulfill the needs of industry and society by Industrial visit.

Program Educational Objectives (PEOs)

1. To develop an ability in students to apply technical skills & solve problems in Electronics & Telecommunication Engineering

2. To Apply advanced Electronics and Telecommunication Engineering technologies for resolving needs of society & industry

3. To Work individually and in team with professional attitude & societal responsibility

Program Outcomes (POs)

1. **Basic and Discipline specific knowledge:** Student will be able to apply knowledge of basic mathematics, science and engineering fundamental and engineering specialization to solve the Electronics & Telecommunication Engineering problems.

2. **Problem Analysis:** Student will be able to identify and analyze well-defined Electronics &Telecommunication engineering problems using codified standard methods.

3. **Design / Development of solution**: Student will be able to design solutions for Well-defined technical problems assist with the design of system components or process to meet specified needs.

4. **Engineering Tools, Experimentation and Testing:** Student will be able to apply the modern engineering tools and appropriate technique to conduct standard tests and measurements.

5. **Engineer Practices for society, sustainability and environment**: Student will be able to apply appropriate technology in context of society, sustainability, environment and ethical practices.

6. **Project Management:** Student will be able to use Electronics & Telecommunication engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined Electronics & Telecommunication engineering activities.

7. **Life-long learning:** Student will be able to analyze individual need and engage in updating in the context of technological changes.

Program Specific Outcomes

1. **Electronics & Telecommunication Systems**: Maintain various types of Electronics & Telecommunication systems.

2. **Equipment and Instrument**: To analyze ,design and troubleshoot electronic appliance

3. **EDA Tools Usage**: Use EDA tools to develop simple Electronics & Telecommunication Engineering related circuits.

Expert Talks

1. **"Concept of IoT"** by **Mr. Swapnil Jagtap** Team lead at Signify India Innovation, Pune, for third year Students

2. **"Recent Technology in Automotive Industry"** by **Mr. Sagar Marji** Senior Test Engineer, KPIT Pune, for second year Students.

3. **"PCB manufacturing process"** by **Mr. Suraj Tambe** Director, Accutek Circuits Pvt. Ltd. Pune for third year Students.

4. **"CCTV & DTH Installation"** by **Mr. Kompa Ganesh** Swati Electronics, Hannur Road, Akkalkot for second year students.

Paper Published

1. Footstep power generation system using microcontroller

Abstract

Day by day, the population of the country increased and the requirement of the power is also increased. At the same time the wastage of energy also increased in many ways. So reforming this energy back to usable form is the major solution. As technology is developed and the use of gadgets, electronic devices also increased. Power generation using conservative methods becoming deficient. There is a necessity arises for a different power generation method. At the same time the energy is wasted due to human locomotion and many ways. To overcome this problem, the energy wastage can be converted to usable form using the piezoelectric sensor. This sensor converts the pressure on it to a voltage. So by using this energy saving method which is the footstep power generation system we are generating power.

Mr. Harwalkar S. M.
Mr. Gaikwad S. R.
Ms. Dhallu S. A.
Ms. Tonage R. A.
Lect. Kulkarni M.S.

2. IOT Based Air Quality Index Monitoring System

Abstract

Internet of Things (IoT) may be a worldwide system of "smart devices" which will sense and connect with their surroundings and interact with users and other systems. Global air pollution is one of the major concerns of our era. The level of pollution has increased with times by lot of things like the increase in population, increased vehicle use, industrialization and urbanization which ends up in harmful effects on human wellbeing by directly affecting health of population exposed to it. Air quality goes down when enough amount of harmful gases present in the air like carbon dioxide, smoke, alcohol, benzene, NH3, and NO2. In order to analyses we are developing IOT Based pollution Monitoring System which we'll monitor the Air Quality over an internet server. Existing monitoring systems have inferior precision, low sensitivity, and need laboratory analysis. Therefore, improved monitoring systems are needed. To overcome the issues of existing systems, we propose a three phase pollution monitoring system. It will show the air quality in PPM on the LCD and also as on webpage in order that we will monitor it very easily. In this IOT project, you can monitor the pollution level from anywhere using your computer or mobile device. The system uses MQ2 and MQ7 sensor for monitoring Air Quality. It measures their amount exactly and finds out harmful gases.

Ms. Kalburgi V. S.
Mr. Benure C. N.
Ms. Gobbur S. G.
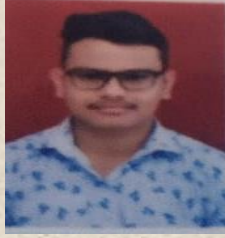Ms. Ganeshkar M.K.
Lect. Salunkhe K.D.

Workshops/Trainings attended

1. Mr. Khilari V.S. attended One week online STTP on "Teaching Learning Pedagogies" Ogranized by A.G. Patil Institute, Solapur.
2. Mr. Khilari V.S. attended Two days FDP on "Innovative Tools in Online Teaching & Learning Process" organized by SVSMD's KKI Polytechnic, Akkalkot.
3. Mr. Khilari V.S. attended three Days FDP on "Computer Networking & Data communication" organized by BMP Polytechnic, Solapur.
4. Ms. Konade S.B. attended One weak online FDP on "Innovative Teaching Pedagogy in the technical institution" organized by KBT College of Engg. Nashik.
5. Ms. Konade S.B. attended Two days online Workshop on "Outcome Based Education, NBA Approach" organized by Department of Mechanical Engineering, Dr. Vithalrao Vikhe Patil College of Engineering Ahmednagar
6. Ms. Konade S.B. attended Two days FDP on "Innovative Tools in Online Teaching & Learning Process" organized by SVSMD's KKI Polytechnic, Akkalkot.
7. Ms. Kulkarni M.S. attended three Days FDP on " Computer Networking & Data communication" organized by BMP Polytechnic, Solapur
8. Ms. Kulkarni M.S. attended Two days FDP on "Innovative 3 Tools in Online teaching & Learning Process" organized by SVSMD's KKI Polytechnic, Akkalkot.
9. Mr. Desai P. B. attended Two days online Workshop on "Outcome Based Education, NBA Approach" organized by Department of Mechanical Engineering, Dr Vithalrao Vikhe Patil College of Engineering Ahmednagar
10. Mr. Desai P. B. attended Three Days online Workshop on "PLC Programming" organized By E&TC Department of SPM Polytechnic, Solapur.
11. Mr. Desai P. B. attended three Days FDP on " Computer Networking & Data communication" organised by BMP Polytechnic, Solapur
12. Mr. Salunkhe K.D. attended One Week Online Faculty Development Program on "Engineering Education & the Industry" Organized by Rajiv Gandhi Institute of Technology, Mumbai.
13. Mr. Salunkhe K.D. attended three Days FDP on "Computer Networking & Data communication" organized by BMP Polytechnic, Solapur.
14. Ms. Potdar M.D. attended three Days online Workshop on "PLC Programming" organized By E&TC Department of SPM Polytechnic, Solapur.
15. Ms. Potdar M.D. attended three Days FDP on "Computer Networking & Data communication" organized by BMP Polytechnic, Solapur.

Academic Performance:

Winter-20

COURSE	NAME OF STUDENT	Photo	PERCENTAGE	RANK
EJ1I	**Mr. Parkhe Suyash Swaminath**		**89.43%**	**1st**
	Ms. Desai Vaishnavi Ashok		**85.43%**	**2nd**
	Mr. Kumbhar Prakash Parmanand		**84.71%**	**3rd**
EJ3I	**Mr. Savali Samarth Ravikant**		**91.76%**	**1st**
	Mr. Potdar Monesh Prakash		**90.71%**	**2nd**

	Mr. Shinde Samarth Abhay		88.47%	3rd
EJ5I	Ms. Kalaburgi Vaishnavi Santosh		95.26%	1st
	Mr. Kshirasagar Akash Basawaraj		92.21%	2nd
	Mr. Harwalkar Samarth Manojkumar		91.57%	3rd

Summer-21

COURSE	NAME OF STUDENT	Photo	PERCENTAGE	RANK
EJ2I	Mr. Kumbhar Prakash Parmanand & Ms. Gadekar Pooja Bhutali		83.00%	1st
	Ms. Kusekar Anjali Prakash		82 .13%	2nd

	Mr. Belle Vaibhav Bhutali		79.13%	2nd
	Mr. Loni Suprit Satish		86.11%	1st
EJ4I	Mr. Potdar Monesh Prakash		85.56%	2nd
	Ms. Jadhav Ashwini Fulsing		83.78%	3rd
	Mr. Harwalkar Samarth Manojkumar		87.20%	1st
EJ6I	Mr. Kshirasagar Akash Basawaraj		86.53%	2nd
	Ms. Kalburgi Vaishnavi Santosh		85.60%	3rd

Placements

Our students are selected by following industries

Sr. No	Name of Students Selected	Name of Industry Approached for Campus Interview
1	Ms. Sakshi Dhallu	Phillips Innovation Ltd, Pune
2.	Ms. Pawar Nikita	Visudh Ajivam Pvt Ltd.

In plant Training

In Plant training will provide an industrial exposure to the students as well as to develop their career in the high-tech industrial requirements. Reputed companies are providing in plant training to students. Here students are initially get counseled in order to emerge out their interest in various streams and what are the basic concepts they know on that domain.

Our MOU's

Sr. No.	Name of Industry	MOU Date	Period of MOU
1.	Fabteech Solutions, Hadapsar Midc Pune-28.	02/02/2020	3yrs from effective date
2.	Shams Energy Pvt. Ltd. Solapur.	07/02/2021	3yrs from effective date
3.	Swati Electronics, Akkalkot Solapur.	03/03/2021	3yrs from effective date

S.V.S.M.D's

Kai. Kalyanrao (Balasaheb) Ingale Polytechnic, Akkalkot

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Approved by: All India Council for Technical Education (AICTE), New Delhi
Recognized by: Government of Maharashtra
Approved by: Directorate of Technical Education (DTE), Mumbai
Affiliated to: Maharashtra State Board of Technical Education (MSBTE), Mumbai

COURSES OFFERED IN DIPLOMA ENGINEERING

Discipline	Intake Capacity	Duration of Course
Civil Engineering	60	3 Years
Computer Engineering	30	3 Years
Electronics and Telecom. Engineering	30	3 Years
Mechanical Engineering	60	3 Years
Total Intake	180	