



NEWSLETTER : THE CONNECT

VOL-9:ISSUE-I, JULY 2023 TO NOVEMBER 2023

THEME:
INTERNET OF THINGS

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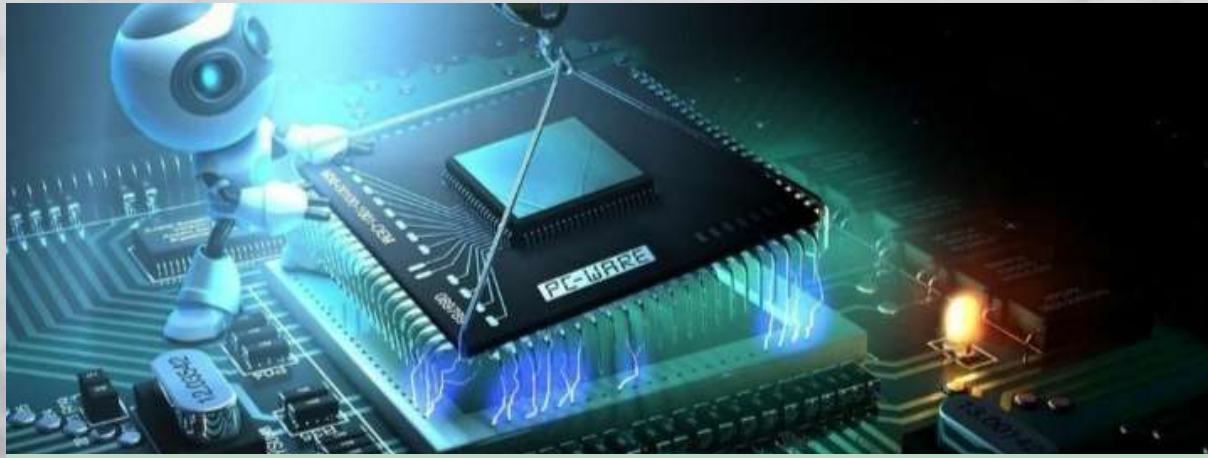
Wishing you a year full of promising growth

CHIEF EDITOR:

Mr.S.S.Mane

EDITOR COMMITTEE:

- 1.Mrs.A.A.Chougule
- 2.Mr.J.I.Tamboli
- 3.Mr.Prasad Tulsiram Dange
- 4.Miss.Vidhika Vikas Kagle



MESSAGE FROM PRINCIPAL



Prof.Y.R.Gurav

Principal

Technology is revolutionizing the progress of the world. The Big Earth is becoming a Global village due to the rapid development in the field of Internet based communication system. The technology is increasing the human comfort Index and safe living of the people. In these aspects the field of Electronics and Telecommunication Engineering plays a major role. The development in the form of Internet of Things (IOT), Cloud Computing, Big data analysis and mobile applications are leading the growth platform in this current century. By recognizing these trends of development I understand the Electronics and Telecommunication Engineering department is releasing the Newsletter containing various innovative, developmental and research articles for the knowledge and enlightenment of the student community. My Hearty Congratulations for the Head of the Department and the editorial board of this Newsletter to bring out the events and talents of the department.

MESSAGE FROM HOD



Mr.S.S.Mane

HOD

I am pleased to share some of the exciting news in the Department of Electronics and Telecommunication Engineering happened during the academic year 2023-24 through our newsletter "THE CONNECT". Newsletter is believed to be a focus of the inside activities i.e. academics, achievements of students and faculties as well as innovation occurring in the department. In the era of engineering and technology, this newsletter will motivate all the teachers and students by sharing their creativity and new ideas with the world and will help in their overall development. During this year, the staffs and students involved in various academic, co-curricular, extra-curricular as well as research & developments activities. I would like to thank all my colleagues for their tireless efforts for the progress of the department at a very steady pace. I congratulate the entire editorial team for their solidarity in bringing out successfully a Department news letter for the academic year 2023-24.

THE CONNECT

VISION OF DEPARTMENT

To be a reputable department that offers technical instruction in Electronics and Computer engineering for the benefit of society.

MISSION OF DEPARTMENT

- To create a dynamic and intellectually stimulating learning environment where students can advance their careers.
- Providing cutting-edge technological education while adhering to industry standards for excellence.
- To cultivate a culture that supports a person's overall growth, including their social and ethical obligations.
- To fortify ties with businesses in order to enable pupils to labor under challenging circumstances.



Miss. A. A. Chougule
Lecturer (E&TC)

EDITOR'S DESK

Being the newsletter editor for department of Electronics and Telecommunication engineering in Ashokrao Mane Polytechnic is indeed a huge honor for me. It gives me great pleasure to present this November 2023 edition. Newsletter reflects department's vision and mission, events, activities, and academic accomplishments are also highlighted. I have attempted to document the enthusiasm and the events of the past six months are captured in this newsletter . It has remained my sincere efforts that this newsletter should inspire many more people, especially students, to use it as a medium for artistic expression. It is my genuine hope that you will find this edition to be a fascinating read.

Mrs. A. A. Chougule

KEY POINTS OF THE DEPARTMENT

- 100% Placement of final-year students
- Excellent results for final-year students
- Well-developed laboratories, in-plant training, and industrial training
- Expert lectures, time management, and the ability to prioritize and plan work effectively

DEPARTMENTAL ACTIVITIES

Shri Balasaheb Mane Shikshan Prasarak Mandal, Ambap's

Ashokrao Mane Polytechnic

Vathar Tarf Vadgaon
Tal- Hatkanangale, Dist.Kolhapur (Maharashtra State)



Organized Three Day Online FDP on

RECENT TRENDS IN ELECTRONICS AND COMPUTER ENGINEERING

17th ,18th and 19th July 2023

Approved By

Maharashtra State Board of Technical Education



Organized by

Department of Electronics and Computer Engineering
Ashokrao Mane Polytechnic (AMPV)
District -Kolhapur

www.amietv.org

DAY WISE SCHEDULE :

Day-1: Monday - 17th July 2023

Session-1 : Recent trends in IoT and Embedded Systems
11:00 am to 1:00 pm

Session-2 : Artificial Intelligence and Machine Learning
2.00 pm to 4.00 pm (AI & ML)

Day-2 : Tuesday -18th July 2023

Session-1 : Recent Trends in VLSI

Session-2 : Mechatronics -MEMS
[Micro-Electro-Mechanical Systems]

Day-3 : Wednesday 19th July 2023

Session-1 : E - Vehicles and Drone Technology

Session-2 : Recent trends in PCB Design and Manufacturing

Resource Persons

- **Mr. Suryakant Dodmise**, Director (Siddham innovation and business incubation centre, Kolhapur)
- **Dr. Vahida Attar**, HOD (Computer Science Engg. COEP Pune)
- **Dr. S. B. Chavan**, HOD (E&Tc Shivaji University Dept of Technology Kolhapur)
- **Dr. Mukund Hargude**, Asst. Professor (PVPIT Budhagaon)
- **Mr. Rohit Kadam** Director ,Robosap Innovations Pvt. Ltd
- **Mr. Shardul Karandikar**, Expert in PCB Design and Embedded System (Industry Consultant)

Registration Link : <https://forms.gle/Pc5SXnKCFw2CApE98>

Whatsapp Link : <https://chat.whatsapp.com/Cqjeac8mSA7JVaqbsb4cII>

Faculty Development Program.....

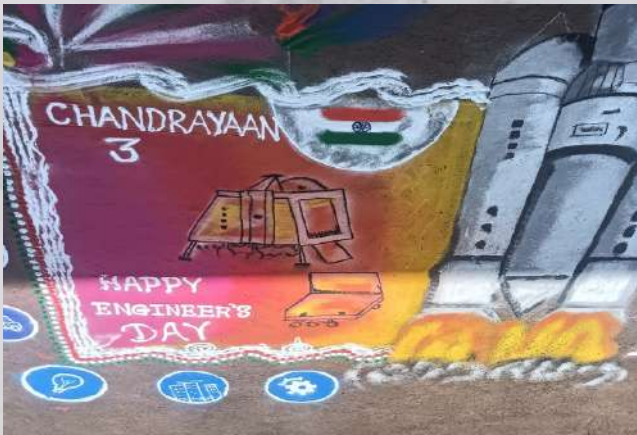
Electronic and Telecommunication engineering department organize online faculty development program on "Recent Trends in Electronic and Computer Engineering". Various doctorate and resource persons selected for these FDP. The Faculty members at our institution take part in the Faculty Development Programme for each semester. The programme's goal is to improve the academic and intellectual environment in the institution by giving faculty members ample chances to do research and take part in seminars, conferences, and workshops. Faculty members' research and teaching abilities would be upgraded through participation in FDP programme.

The Faculty Development Program (FDP) will address topics like technical education policy, new concepts, methods, and techniques, theory and skill development, upgrading of pedagogy and educational technology, motivation, communication skills, management, and other pertinent issues in order to keep up with the changing landscape in technical education. The programme aims to improve the faculty's pedagogical and other skills and familiarize them with teaching strategies and resources. It offers a chance to learn more about recent technological advancements in pertinent domains. In addition to advancing professional practices pertinent to technical education, it will inspire the faculty to create a competitive atmosphere for teaching and learning, directing growth in terms of academic qualifications. Also by enhancing teachers' skills and methodologies, faculty development programs indirectly influence student motivation. Teachers who are more confident and well-versed in their subjects can create more engaging and motivating learning experiences for the students and by tailoring lessons to meet students' individual needs and interests, they can spark curiosity and promote a deeper connection to the subject matter.

EVENT-ENGINEERING DAY



The department installed "Selfie Point" on the occasion of Engineers' Day to give the opportunity for photo session to the selfie lover.



The department presented "CHADRAYAAN 3" model through Rangoli design.



We all faculty and students, gathered for Pujan of Prof. Mokshagundam Visvesvaraya. Also Mrs. Amin Mam gives guidelines for careers, and some students give speeches on Engineering Day.



INDUSTRIAL VISIT - Bengaluru (ISRO)



Department of Electronics and Telecommunication Engineering has organized industrial visit at U R RAO SATELLITE CENTRE BANGALURU (ISRO) on 09th October 2023. This visit was organized for second and third year students. Students were introduced to different types of rockets & satellites developed till now at ISRO and they proposed by Mr. Srinivasa Sir. Then we were informed about different centers of ISRO all over India & their purpose. Mr. Srinivasa Sir explained the various features of the rockets. Next, there were the models of satellites including the oldest Apple satellites and the later satellites with solar panels, solar sail and minor rockets present on the satellites for adjusting their positions in space. Two types of satellites were described: Indian Remote Sensing Satellites and Communication Satellites. Also we all visited to Mysore Palace which is very beautiful historical palace in Karnataka, India.



EXPERT LECTURE



On August 9, 2023 a Guest lecture on the topic of Micro and Mega project development and report writing was conducted in Electronics and Telecommunications Department. The lecture's objectives were to give students an understanding of the complexities of project development at various scales and to give them the tools they needed to write reports that clearly and concisely convey project outcomes. The lecture was delivered by Mr. Manish Kulkarni, a renowned expert in project management and report writing. The speaker brought valuable industry knowledge and practical insights to the lecture. The speaker began by explaining the fundamental differences between micro and mega projects. Micro projects typically involve smaller budgets, shorter timelines, and a limited scope while mega projects encompass large-scale initiatives with significant financial investments, extended timelines.

The lecture focused on the importance of effective report writing to communicate project outcomes and findings. The speaker highlighted the essential components of a project report, including an executive summary, methodology, results, analysis, recommendations, and conclusion. Moreover, the lecture provided practical tips on structuring reports, presenting data visually, and ensuring clarity and coherence in written communication.

The lecture concluded with a question and answer session, allowing students to seek clarification on specific topics or seek further insights from the speaker's expertise. The interactive session facilitated a deeper understanding of the lecture content and provided an opportunity for students to engage in meaningful discussions.



FACULTY SPEAK.....



Mr.J.I.Tamboli
Lecturer

IOT IMPORTANCE :

The Internet of Things (IoT) describes the network of physical objects—“things”—that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the internet. Over the past few years, IoT has become one of the most important technologies of the 21st century. Now that we can connect everyday objects—kitchen appliances, cars, thermostats, baby monitors—to the internet via embedded devices, seamless communication is possible between people, processes, and things.

By means of low-cost computing, the cloud, big data, analytics, and mobile technologies, physical things can share and collect data with minimal human intervention. In this hyperconnected world, digital systems can record, monitor, and adjust each interaction between connected things. The physical world meets the digital world—and they cooperate. The ability of IoT to provide sensor information as well as enable device-to-device communication is driving a broad set of applications.



Mr.P.D.Shinde
Lecturer

INDUSTRIAL IOT

Industrial IoT (IIoT) refers to the application of IoT technology in industrial settings, especially with respect to instrumentation and control of sensors and devices that engage cloud technologies. Refer to this Titan use case PDF for a good example of IoT. Recently, industries have used machine-to-machine communication (M2M) to achieve wireless automation and control. But with the emergence of cloud and allied technologies (such as analytics and machine learning), industries can achieve a new automation layer and with it create new revenue and business models. IoT is sometimes called the fourth wave of the industrial revolution, or Industry 4.0. The following are some common uses for IoT:

- Smart Manufacturing
- Connected assets and preventive and predictive maintenance
- Smart power grids
- Smart cities

IoT is reinventing the automobile by enabling connected cars. With IoT, car owners can operate their cars remotely—by, for example, preheating the car before the driver gets in it or by remotely summoning a car by phone.

STUDENT SPEAK.....

APPLICATION OF IOT

The ability of IoT to provide sensor information as well as enable device-to-device communication is driving a broad set of applications. The following are some of the most popular applications and what they do.

Create new efficiencies in manufacturing through machine monitoring and product-quality monitoring.

Machines can be continuously monitored and analyzed to make sure they are performing within required tolerances. Products can also be monitored in real time to identify and address quality defects.

Improve the tracking and “ring-fencing” of physical assets.

Tracking enables businesses to quickly determine asset location. Ring-fencing allows them to make sure that high-value assets are protected from theft and removal.

Use wearables to monitor human health analytics and environmental conditions.

IoT wearables enable people to better understand their own health and allow physicians to remotely monitor patients.

Drive efficiencies and new possibilities in existing processes.

One example of this is the use of IoT to increase efficiency and safety in connected logistic for fleet management. Companies can use IoT fleet monitoring to direct trucks, in real time, to improve efficiency.



Mr. Prasad Tulshiram Dange

HOW DOES IOT WORK

An IoT ecosystem consists of web-enabled smart devices that use embedded systems -- such as processors, sensors and communication hardware -- to collect, send and act on data they acquire from their environments. IoT devices share the sensor data they collect by connecting to an IOT gateway, which acts as a central hub where IoT devices can send data. Before the data is shared, it can also be sent to an edge devices where that data is analyzed locally. Analyzing data locally reduces the volume of data sent to the cloud, which minimizes bandwidth consumption. Sometimes, these devices communicate with other related devices and act on the information they get from one another. The devices do most of the work without human intervention, although people can interact with the devices -- for example, to set them up, give them instructions or access the data. The connectivity, networking and communication protocols used with these web-enabled devices largely depend on the specific IoT applications deployed.



Miss. Vidhika Vikas Kagle

STUDENT ACHIEVEMENT



The TY E&TC student Mr. Prasad Tulsiram Dange secured first place for National Level Competition "Nimbus 2K23" in the "Circuit Expert" Technical Event held at Sanjay Ghodawat Institute, Atigre.

The SY E&TC student Mr. Chinmay Girish Patil S.Y.E&TC secured 4th rank in Asian Cup Rifle Shooting Competition held at Tokyo Japan. Also selected for world cup shooting championship which will take place in Italy

The S.Y. E & TC student Miss Vidhika Vikas Kagale student from won a second prize in "Yash 2K23" technical paper presentation national level competition at Yashwantrao Chavan Polytechnic, Ichalkaranji,

THIRD YEAR TOPPERS



KAMBLE VAISHNAVI VIJAY
84.47%



MANER FAIJAN NIYAJ
84.35%



TELVEKAR RAJASHRI RAJEDRA
82.12%

SECOND YEAR TOPPERS



GAWADE VISHAKA BABURAO
88.67%



DANGE PRASAD TULSHIRAM
87.00%



GHODAKE SIDDHI VINOD
84.00%

FACULTY ACHIEVEMENT



SCHOOL CONNECT PROGRAM



The School connects program is organized to nurture and encourage the student by making them aware of the multiple carrier options. Under the MSBTE campaign of school connect programme the department faculty visited the various schools and made the awarness about carrer among 10th stadrad students about Diploma Education. For these program our faculty prepare presentation to guide the student about the various carrier option available in Electronic and Telecommunication Engineering. During the past decade, we have organized multiple schools connect program for the student With the increasing competition, the role of parents becomes crucial for student achievements. Thus our professional give proper advice on how families can be involved.

NSS ACTIVITY



As a social activity under NSS, on the occasion of birthday Shri. Vijaysingh Mane, President of Shri. Balasaheb Mane Shikshan Prsark Mandal and Director of Kolhapur District Central Co-operative Bank, our institute distributed blankets among the sugarcane worker.

Under the NSS activity, the students and faculty took pledge about “Meri Maati Mera Desh ” which envisions a unified celebration of India’s soil and valour, commemorating the nation’s journey of freedom and progress

SUCCESS STORY



MR.OMKAR MAKRAND BURANDE

I am Mr. Burande Omkar Makarand. I had taken admission at Ashokrao Mane Polytechnic in Electronic and Tele communication Engineering in the year 2014-2015. Now i am CEO of Om Electrotech and system also Co-editor Sapt.Vastav Darpan, and President of BJP Panhala. I was an average student , but with very big dreams. AMP provides all needful thing which are very useful for betterment of my future. During teaching, a teacher uses creativity so that students can concentrate on their studies. They are a repository of knowledge and have the patience and confidence to take responsibility for the future of the student. They only want to see their students successful and happy.I like to thanks all teachers who was guide me , teach me and very thankful to AMP to give path in making my life great.

The current newsletter highlights the activities and achievements of faculty ,staff and students for the past 6 months. The intent of this newsletter is to disseminate information about our Department and we hope that the readers find the issues informative and useful. I am thankful to the faculty staff and students for their valuable inputs, and welcome suggestions and feedback.

THEME OF NEXT ISSUE : OPTICAL NETWORKING



The obligation of authors alone are responsible for the veracity of the information in this newsletter; the opinions they express are exclusively their own and have been approved by the Electronic & Telecommunication engineering department. Mr.S.S.Mane, H.O.D. of Electronic & Telecommunication engineering, edited, printed and published the newsletter. You can send information question and comments to ampvhodec@gmail.com, Ashokrao Mane Polytechnic Vathar, 416112 Website:www.amietv.org