

## ONE-DAY WORKSHOP

On

**Practical Insights into Wireless  
Communication Systems  
PIWCS-2026**

**(28 th March, 2026)**

### Registration form

1. Name : \_\_\_\_\_
2. Destination: \_\_\_\_\_
3. Specialization: \_\_\_\_\_
4. Department: \_\_\_\_\_
5. Organization/Institute: \_\_\_\_\_  
\_\_\_\_\_
6. Mailing Address: \_\_\_\_\_
7. Phone: \_\_\_\_\_
8. Fax: \_\_\_\_\_
9. E-mail: \_\_\_\_\_
- Payment Details: \_\_\_\_\_

Signature

## RESOURCE PERSONS:

### CHIEF GUEST:

Dr. Arunashu Mohapatro, Associate  
Professor, VSSUT, Burla, Odisha.

### INVITED GUEST:

Dr. Subrat Kumar Sethi, Assistant Professor,  
VSSUT, Burla, Odisha.

### VENUE OF THE WORKSHOP:

Silicon Institute of Technology,  
Sambalpur, Odisha.

### WORKSHOP REGISTRATION:

Registration fee (Rs. 100/-) Spot registration is  
also available. The registration fee includes  
workshop kit, lunch & refreshment.

### LAST DATE FOR REGISTRATION

February 26, 2026

### CORRESPONDENCE:

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### ORGANISED BY:

Department of Electronics &  
Communication Engineering, Silicon  
Institute of Technology, Sambalpur -  
768 200, Odisha

## SILICON INSTITUTE OF TECHNOLOGY, SAMBALPUR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING:

Silicon Institute of Technology started its first campus at Bhubaneswar in 2001 and with the completion of its nine glorious years it ventured into Western Odisha with its second campus at Sambalpur in 2009. After sixteen years of its existence, Silicon, Sambalpur otherwise known as Silicon West is now a familiar name in the field of technical education of Odisha. Since its inception, the institute has been undergoing continuous improvisation by adapting to modern and innovative technologies in order to cater to the students' needs.

Team silicon came up with the campus primarily to meet the growing demand of technical manpower for core industries in Sambalpur, Jharsuguda & Sundergadh industrial zone. Silicon west offers core engineering courses & to train the students to cater to the needs of these industries. The institute has an enthusiastic & competent faculty with state-of-the-art laboratories & safe residential accommodation with modern amenities.

Silicon West, 15km away from Sambalpur and 5 km away from Rengali has been excelled in imparting the best of technical education and made it a state of the art institute for pursuits of engineering education. The strength of Silicon lies in its determination to go beyond teaching through creative learning and teamwork. The team of dedicated personnel comprising the initiators, advisors, members of management, faculty & staff through their cooperative and relentless efforts has been contributing for the swift growth of the Institute.

All the programmes offered at Silicon are approved by All India Council for Technical Education (AICTE), Ministry of HRD, Government of India, recognized by Government of Odisha and the institute is affiliated to the Biju Patnaik University of Technology (BPUT), Odisha.

The department of Electronics and Communication Engineering aims at producing qualified and dynamic engineers to cope with the fast changing areas of Electronics and Communication Engineering.

The Department offers undergraduate course on Electronics & Communication Engineering and this course proved to be indispensable to industrial establishments. All laboratories are well furnished with sophisticated equipments and software based on latest technology.

### ABOUT THE WORKSHOP:

Wireless communication enables the transfer of information between two or more devices without the use of physical wires, cables, or electrical conductors. Instead, it utilizes electromagnetic waves, such as radio waves, microwaves, or infrared, as the transmission medium through air or free space. Wireless technology has gone through different phases of development since its inception. Over these years different standards in this technology has been evolved out of the demands. The communication using wireless technology has replaced wired technology to enable long distance transmission particularly suitable for global applications.

Applications of wireless communication involve security systems, television remote control, Wi-Fi, Cell phones, wireless power transfer, computer interface devices and various wireless communication based projects.

It is essential to study & analyse on Current Applications of Wireless Communication systems to adequate ourselves in recent high-speed and high-capacity wireless communication systems .

So, wireless communication is a fascinating area of Communication System Engineering that has rapidly developed during the past few decades resulting phenomenal advances in research fields.

A workshop on Practical Insights into Wireless Communication Systems bridges the gap between theoretical radio frequency (RF) concepts and real-world implementation. These sessions typically target engineering students, researchers, and industry

professionals looking to understand how modern standards like 5G, 6G, and Wi-Fi function in hardware.

Therefore, it is planned to organize a workshop on Practical Insights into Wireless Communication Systems by the Department of Electronics and Communication Engineering at Silicon Institute of Technology, Sambalpur, Odisha.

This workshop aims to train the beginners with current Applications of Wireless Communication systems and discourse the practical challenges encountered and the solutions adopted.

### TOPICS FOR THE WORKSHOP INCLUDE, BUT NOT LIMITED TO

- Wireless communication Fundamentals and Channel Modeling
- Propagation Effects
- Modulation & Error Correction
- System Capacity
- Interference Management
- Multiple Access Techniques
- MIMO Systems
- 5G and 6G Evolution
- Security & Privacy

### CHAIRMAN

Prof.(Dr.) Mihir Hota, Dean Academics

### CONVENER

Dr. Manas Ranjan Jena, Assoc. Prof(ECE)

### ADVISORY COMMITTEE

Dr. A. Rath, Assoc. Prof (CE), FIC, Administrations  
Dr. M. K. Mohapatra, FIC, Academics  
Dr. Umashankar Ghugar, Assoc. Prof ( CSE )  
Dr. T. Thakur, Assoc. Prof , HOD, (BSH)  
Dr. S. Patel, HOD, (CE)  
Prof. B. K. Tripathy, HOD, (CSE)  
Prof. S. Pradhan, HOD, (ME)  
Dr. B. K. Dakua, EE

### ORGANIZING COMMITTEE

Dr. N. K . Naik, HOD, (ECE)  
All the faculty & staff members of Department of Electronics & Communication Engineering, Silicon Institute of Technology, Sambalpur, Odisha.