

**Report on R & D Talk**  
**Intelligent Reflecting Surface**  
**3<sup>rd</sup> October, 2024**



EC Department, SCET has arranged an R & D talk on **Intelligent Reflecting Surface** on 3<sup>rd</sup> October 2024 at 11:00 AM - 12:15 PM under R&D Cell, SCET.

**Expert:** Prof (Dr.). Shweta N Shah, Associate Professor, ECED Department, SVNIT, Surat  
PhD (Communication System)

**Brief of Topic:** An intelligent reflecting surface (IRS) is a wireless communications technology that uses a large number of low-cost passive reflecting elements to tune signal reflections and improve wireless communication. IRSs can change wireless channels by actively or passively redirecting electromagnetic waves, altering their phase and amplitude.

Students from 4<sup>th</sup> year and few students from 2<sup>nd</sup> and 3<sup>rd</sup> year have participated in the talk. Students got insight of how IRS technique is used to improve wireless communication along with wireless infrastructure needed.




**Flyer**



**Sarvajanik College of Engineering and Technology**  
**Electronics and Communication Engineering Department**  
(Re-accredited for 3 years by NBA, New Delhi, w.e.f July 2022)  
**Research and Development Cell(SCET)**  
presents


**Expert Talk on**  
**INTELLIGENT REFLECTING SURFACE**

**Expert:** Dr. Shweta Shah, Associate Professor, Department of Electronics Engineering, Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat  
**Coordinator :** Dr. Dhiren Bhagat      **Head of Department :** Dr. Chirag Paunwala

 **3 OCTOBER, 2024**       **11:00 AM TO 12:15 PM**       **AV ROOM, EC DEPT.**

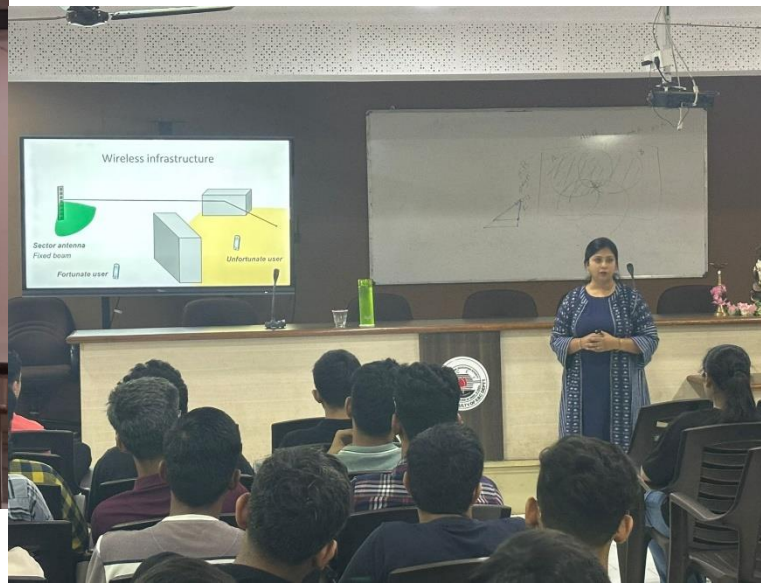
**About the Expert:**

- Currently mentoring 4 Ph.D. Scholars, 2 PG dissertation, and 2 UG projects
- Worked on three funded projects from ISRO, DST worth 1.25 cr. above that, she has mentored 4 TEQIP-based projects as well
- 30+ reputed international journal publications, 21+ international conference publications, 6 book chapters, and co-authored a book.
- Guided 50+ UG projects on multiple objectives, 10+PG dissertations, and 5 Ph.D. scholars have defended their viva-voce under her guidance.
- Organized 20+ programs for faculties, researchers, and students in 5G, wireless communication, IoT, GNSS, etc.



**Dr. Shweta Shah**  
**SVNIT, Surat**

## Pictures from R&D Talk



Dr. Dhiren P. Bhagat  
Faculty Coordinator  
Assistant Professor, ECED  
SCET

Through,  
Dr. Chirag Paunwala  
HoD, ECED  
SCET