The National Institute of Engineering, Mysuru

Department of Electronics and Communication Engineering

Type of Event: ONLINE Expert Talk/Webinar

Event Name: Recent Advancements in SIW-Based Filtering Antennas

Academic Year: 2025-2026

Date: 07/02/2026

Duration: One Day

Target Participants: Faculty + students

Number of Participants: 24

Signature of the Coordinator

UBIQUITOUS COMPUTING AND SIGNAL PROCESSING RESEARCH GROUP

Carve Create Conquer

UCSP CLUB

PRESENTS

RECENT ADVANCEMENTS IN SIW-BASED FILTERING ANTENNAS

Invited Speaker

Dr. Arvind Kumar
Assistant Professor
Visvesvaraya National Institute of Technology (VNIT)
Nagpur, India

DATE: 7th February 2026

TIME: 10:00 AM - 12:00 PM

MODE: Online

About the Talk

This session will cover the latest research advancements in substrate integrated waveguide (SIW) based filtering antennas, focusing on modern design approaches, performance optimization, and real-world RF communication applications.

TARGET AUDIENCE

- UG & PG Students (ECE / RF / Microwave)
- Research Scholars
- Faculty Members
- Industry Enthusiasts

Registration

Scan the QR Code to Register

Organized by **UCSP Club**

Coordinator: Dr. Vijay B. T.

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Coordinator: **Dr. Vijay B. T.**

Signature of the Coordinator

Recent Advancements in SIW-Based Filtering Antennas - UCSP

Saturday, February 7 · 10:00am – 12:00pm

Time zone: Asia/Kolkata

Google Meet joining info

Video call link: https://meet.google.com/kkw-fizm-cyz

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CERTIFICATE OF APPRECIATION

This is to certify that Dr. Arvind Kumar, Assistant Professor, Department of Electronics and Communication Engineering, **Visvesvaraya National Institute of Technology (VNIT), Nagpur**, India, delivered an **expert lecture** as **Resource Person** in an **Online Expert Talk/Webinar** on "**Recent Advancements in SIW-Based Filtering Antennas**", organized by the **UCSP Club**, **Department of Electronics and Communication Engineering, The National Institute of Engineering (NIE), Mysuru, India**, on **7th February 2026** via **Google Meet.**

This certificate is issued as a **token of appreciation** for his valuable contribution and academic support.

Faculty Coordinator 09/02/26

Dr. Vijay B T
Dept of E & C Engg.
The National Institute of Engineering
Mysuru - 570008

9/2/2026
HOD/Principal

Dr. Rajalekshmi Kishore
Associate Professor & Head
Dept. of Electronics & Communication Engg.
The National Institute of Engineering
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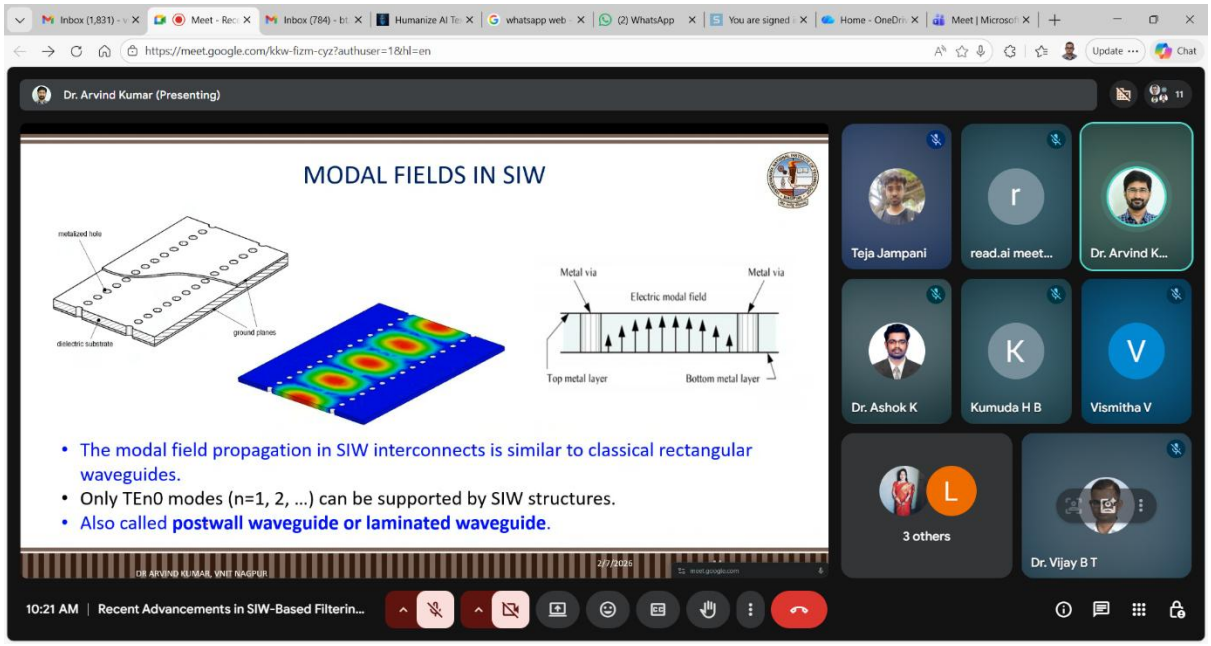

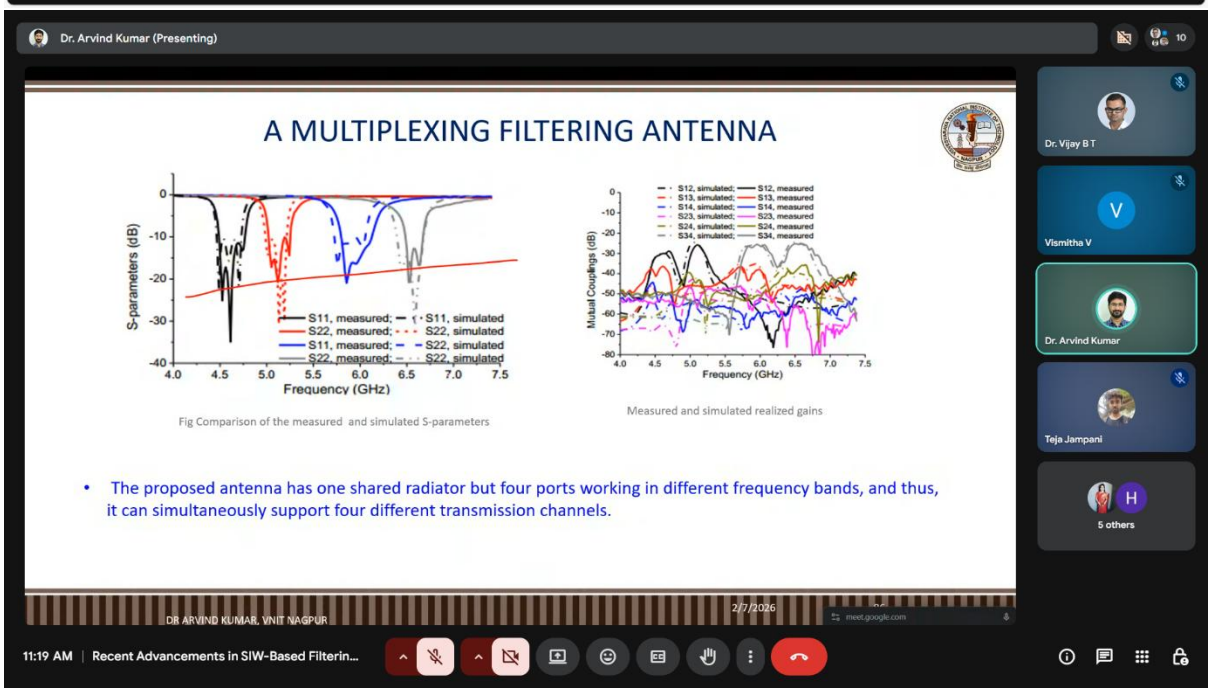

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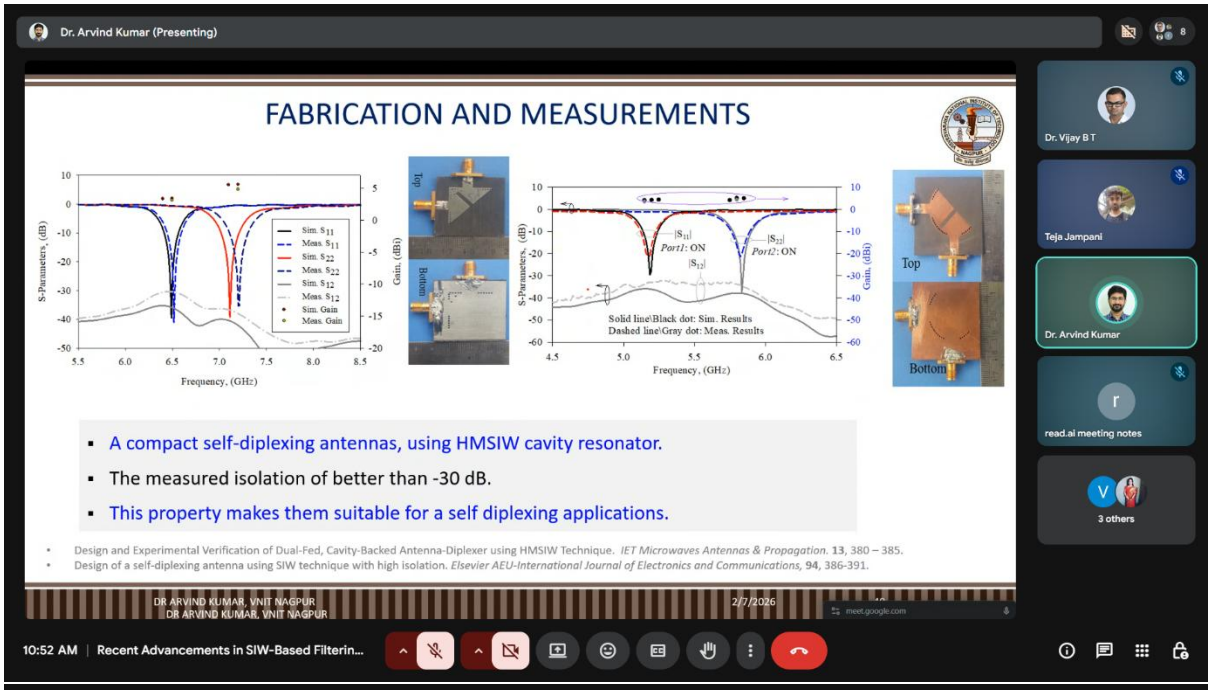

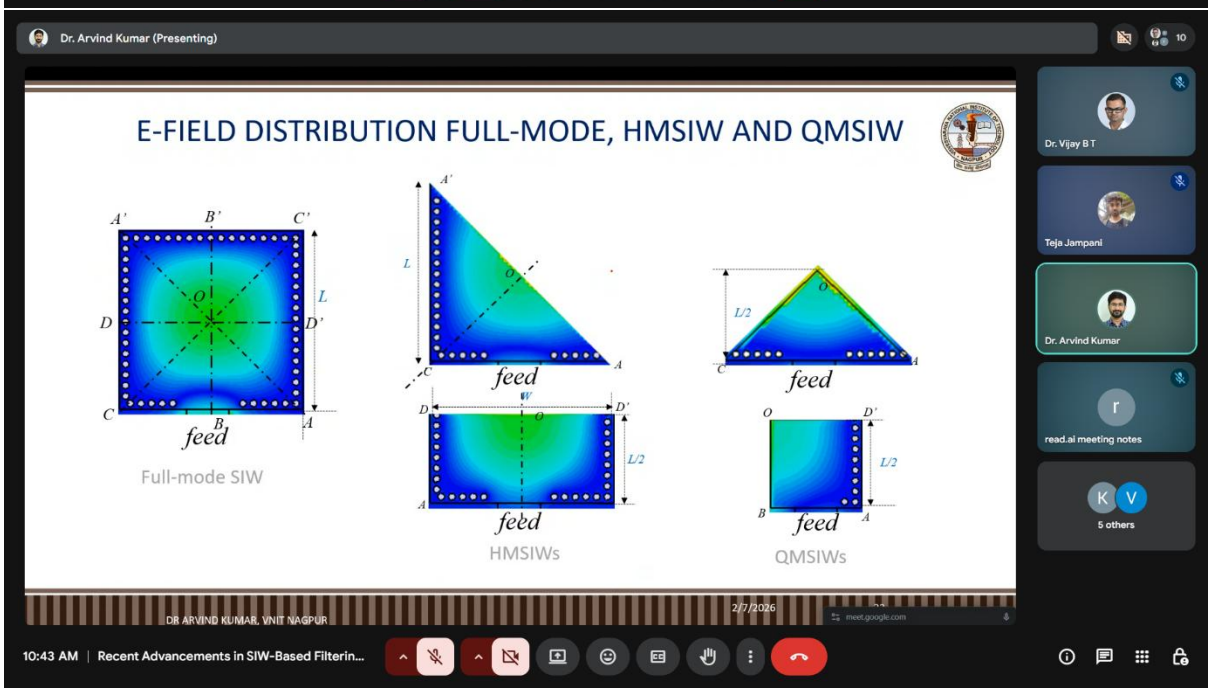

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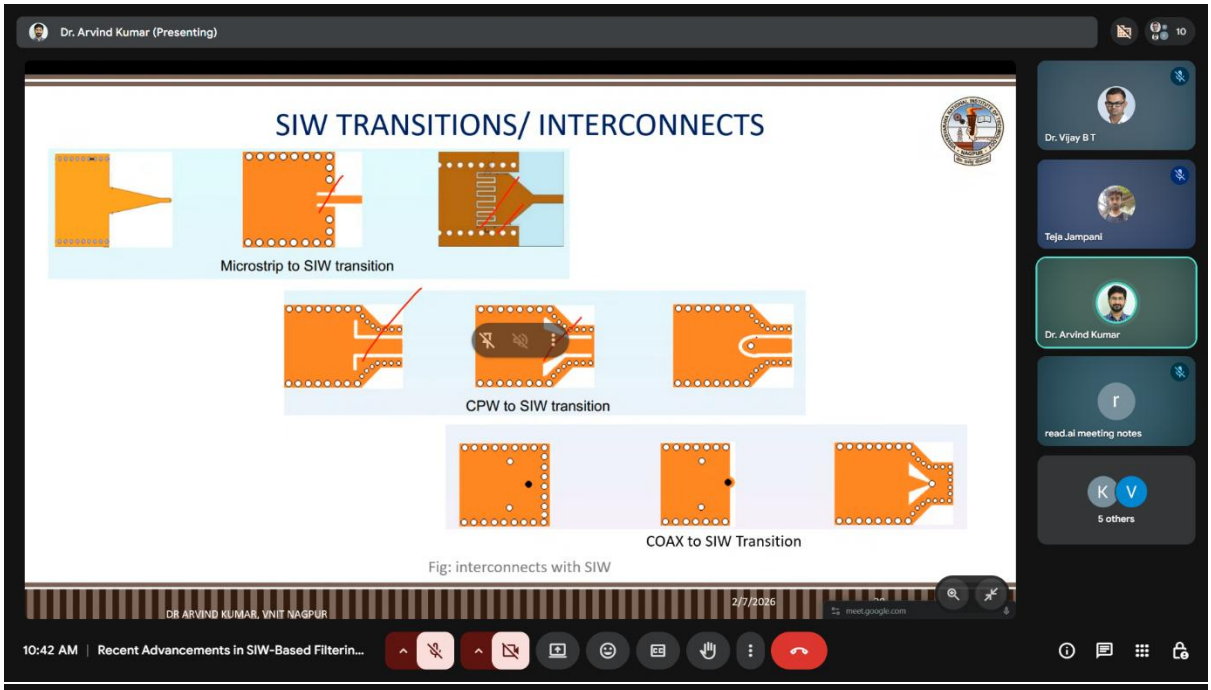

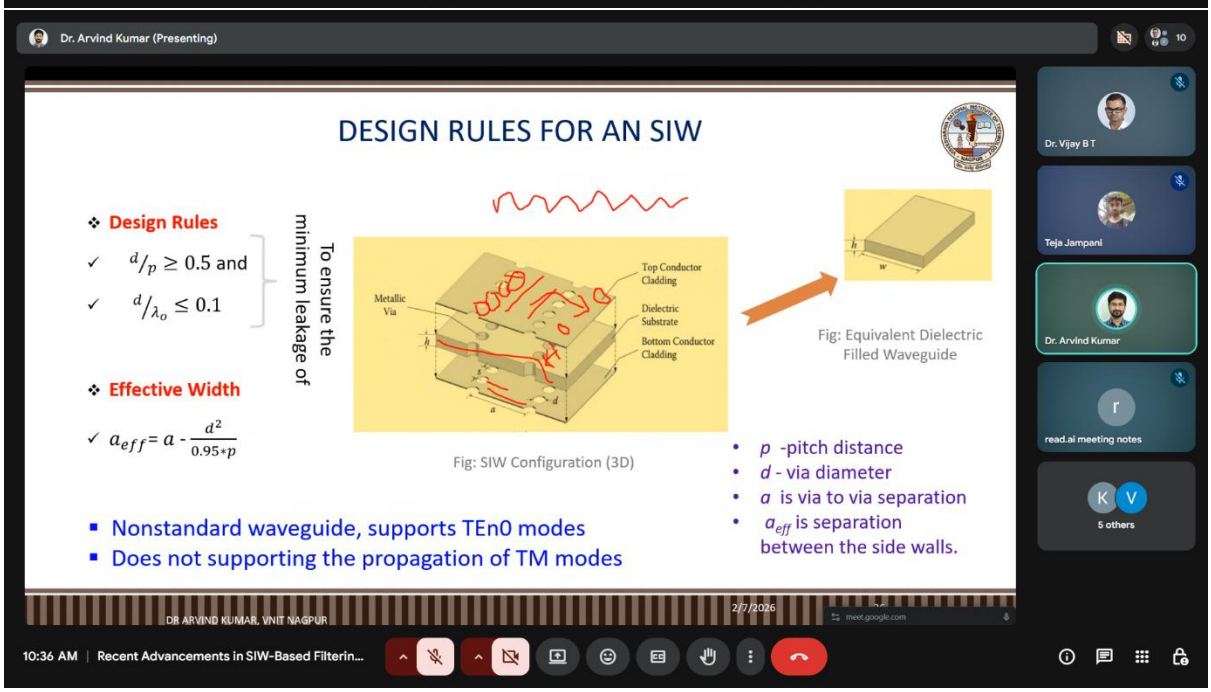

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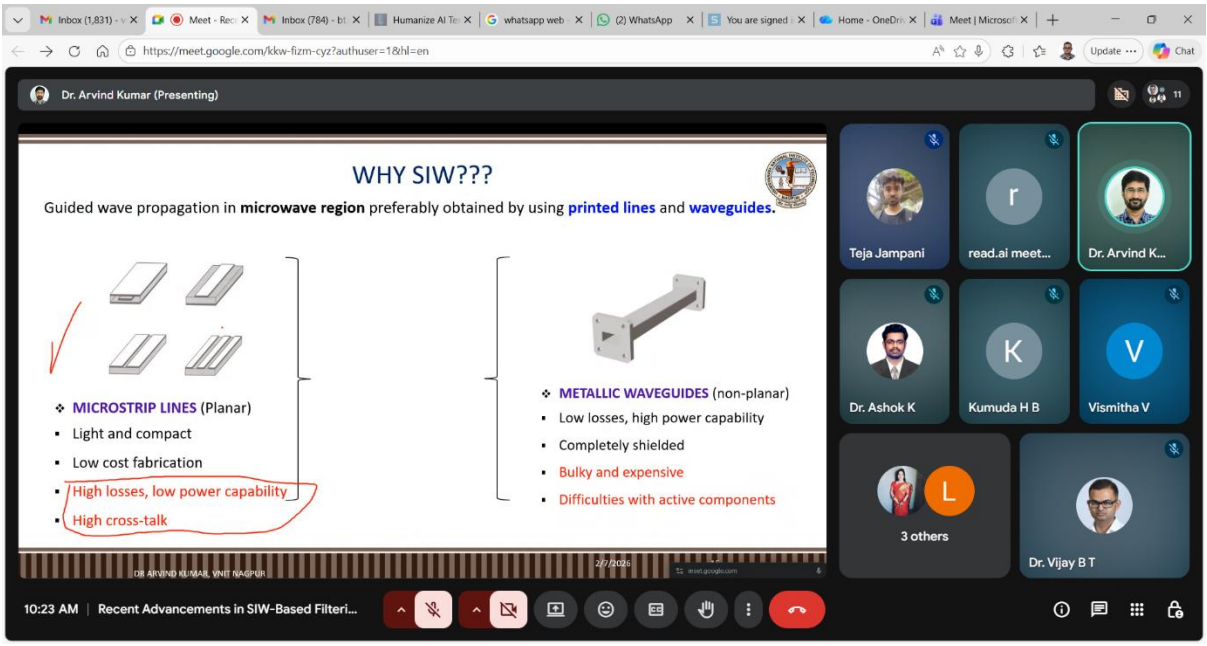

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Report on Online Expert Talk

Introduction

The Department of Electronics and Communication Engineering, The National Institute of Engineering (NIE), Mysuru, through the UCSP Club, organized an Online Expert Talk/Webinar on 7th February 2026 via Google Meet. The event was conducted as part of the department's academic enrichment activities to expose students and faculty members to recent advancements in research and emerging technologies.

Objective

The primary objective of organizing this expert talk was to enhance technical knowledge, promote research awareness, and bridge the gap between theory and current research trends in antenna and microwave engineering. The session aimed to motivate students towards higher studies and research by providing insights from an experienced academician and researcher.

About the Resource Person

Dr. Arvind Kumar is an Assistant Professor in the Department of Electronics and Communication Engineering at Visvesvaraya National Institute of Technology (VNIT), Nagpur, India. He is a recipient of the Young Faculty Research Fellowship (YFRF) Award from MeitY, Government of India, and the Scientific High-Level Visiting Fellowship from the Government of France. He is a Senior Member of IEEE with research expertise in SIW-based antenna and microwave systems.

What was the Event About?

The expert talk focused on recent advancements in Substrate Integrated Waveguide (SIW)-based filtering antennas, covering fundamental concepts, design challenges, performance metrics, and emerging applications in modern wireless communication systems.

Details of the Event

The online expert talk was conducted on 7th February 2026 from 10:00 AM to 12:00 PM using the Google Meet platform. The session began with a welcome address by the faculty coordinator, followed by the introduction of the resource person. Dr. Arvind Kumar delivered an in-depth lecture on SIW-based filtering antennas, highlighting their importance in compact, high-performance RF and microwave systems. The talk covered

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design methodologies, integration of filtering and radiating functions, recent research outcomes, and practical challenges in implementation. The session was interactive, with students and faculty members actively participating in the Q&A segment. The event witnessed enthusiastic participation from undergraduate students, postgraduate students, and faculty members of the department.

Outcome of the Event

The event successfully enhanced participants' understanding of advanced antenna technologies and current research trends. Students gained valuable insights into research directions, publication opportunities, and career pathways in antenna and microwave engineering. Faculty members benefited from the technical discussions and potential research collaboration opportunities. Overall, the event achieved its objective of academic enrichment and research motivation.

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