Departmental Seminar	
Seminar Title	: UWB Antenna for Microwave Imaging and Communication Applications
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Venue	: BM Department Seminar Room
Date and Time	: 30 Oct 2024 (04:30 PM)
Abstract	: This paper presents a compact microstrip patch antenna (MSPA) fine-tuned for ultrawideband (UWB) applications. It operates in the 2.8 GHz to 11 GHz frequency spectrum and is intended primarily for microwave imaging (MI) and wireless communication. This antenna has physical dimensions of $37 \times 30 \times 1.6$ mm ³ and is made using an FR4 substrate. The antenna exhibits a high gain of 5.45 dBi coupled with an impressive radiation efficiency of 94% and a bandwidth of 8.2 GHz, ensuring its suitability for applications such as medical diagnostics and security screenings while accommodating

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numerous wireless communication protocols. Notable for its small size, high power, and exceptional radiating efficiency, this antenna is well-suited for integration into devices with limited space, enabling them to perform resource-intensive