

## JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY

## MTech in Electronics & Communication Engineering with specialization in Micro Electronic Systems & Internet of Things

M.Tech. in Microelectronics & Internet of Things (MIoT) is designed to provide electronics engineers with highly specialized knowledge and experience that they need to design, fabricate and test devices, circuits and systems at micro scale.

The program offers a set of courses that allow students to gain expertise in areas that include back-end and front-end microelectronic designs such as processor and SoC design, chip design, etc. In addition, it introduces the basic IoT architectural overview, its design principles and needed capabilities and also concepts on real-world designs.

The program curriculum is divided into theory, laboratory practice and projects. Along with the core courses, there are several elective courses, audit courses, project-based learning courses and open electives. The dissertation in the final year enables students to apply concepts and techniques learnt during the program. Keeping in view the market trends and demands, the core laboratories for VLSI design and simulation, Internet of Things, etc. have been established.

The aim of the program is to provide students a broad base of education and understanding about the semiconductor industry linked with IoT, enabling them lucrative opportunities in their future endeavours.

