



Special Talk

Engineering Without Boundaries: Building Universities for a Next Generation Quantum-Ready future

Speaker,

Dr. Iven Jose,

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Speaker Biography:

Dr. Iven Jose currently serves as Director, Manipal Institute of Technology (MIT) Bengaluru, a constituent unit of the Manipal Academy of Higher Education (MAHE), India. An alumnus of Indian Institute of Technology (IIT) Bombay, with advanced executive leadership training from the Global Leadership Institute, Boston College (USA), he brings over 25 years of distinguished experience in higher education leadership, policy strategy, and institutional transformation including Previously the Founding Dean at Christ University (India). He was selected as the “United Board fellow” for academic leadership engagement at the Harvard University, USA and Melbourne School of Engineering, Melbourne University, Australia. His work spans academic governance reform, global partnerships, industry–academia integration, and next-generation curriculum design. A recipient of the Microsoft Research Lab India Young Scientist Award, he is a frequent speaker at national and international forums on higher education transformation and innovation ecosystems. He is currently spearheading strategic initiatives in Quantum Technologies, Autonomous Mobility, and Semiconductor Systems, positioning MIT-MAHE Bengaluru as a frontier institution aligned with India’s deep-tech and innovation agenda.

Abstract/Outline

As the world is moving toward quantum technologies, universities need to change the way engineering is taught. Traditional education alone may not be enough to prepare students for future challenges that combine quantum computing, artificial intelligence, cybersecurity, and advanced materials. Engineering without boundaries means creating learning environments where different subjects work together instead of staying separate. By encouraging interdisciplinary research, practical projects, industry collaboration, and ethical thinking, universities can help students become quantum-ready. This approach not only improves technical skills but also builds creativity, problem-solving, and adaptability, which are important for the next generation of engineers. Even though there are challenges like limited resources and lack of expertise, gradual changes in curriculum and teaching methods can make a big difference in preparing students for the future