



Jansons Institute of Technology

Karumathampatti, Coimbatore - 641 659

Approved by AICTE and Affiliated to Anna University

An ISO 9001:2015 certified institution

Industry Readiness Course - Syllabus

Department of Computer Science and Engineering

Emerging Technologies in Business

2023 - 2024 (EVEN Semester)

Learning Objectives

- To address the ever-changing sphere of technology and show how emerging technologies can be applied to different industries and business contexts.
- It will offer crucial, advanced theoretical and practical technological foundations to International Technology Management students.
- It is clear that there is a need to disseminate this knowledge to students to better help them understand technology and how it fits together within the context of modern systems.
- It explores how current market leaders use technology to their advantage by providing a broad understanding of computing methods and infrastructures, cutting edge materials, and applications such as artificial intelligence by forming an in-depth knowledge of what is currently possible and preparing students for technological change.
- It will equip the student with the right skills to both explore new technologies, and explore their potential exploitations.

Learning Outcomes

- Interpret and evaluate critical business technologies and their application in various industries.
- Review concepts and practicalities of adopting technologies related to high performance computing, and evaluate the implications, technical challenges and benefits of operating in technical environments.
- Appraise the theory and concepts behind the technical deployments of emerging technologies.
- Evaluate and implement new and emerging technologies to specific business contexts.

MODULE 1

Emerging technology landscape and evaluating emerging technologies - High Performance Computing (HPC) including Big Data technology, Cloud computing, Blockchain & Cryptocurrencies - Emerging technologies for business application - Artificial intelligence, machine learning and data science



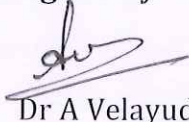
MODULE 2

Advanced Computing Techniques including Artificial Intelligence and machine learning - Cyber-security - Industry 4.0 - Internet of things and smart devices - Cloud technology and computing power - Datafication and data-driven technologies - Data and cyber security

MODULE 3

3D & 4D printing - Robotics and virtual assistants - Visualisation and collaboration including data visualisation, virtual and augmented reality (& mixed reality), crowd sourcing

Course Designed By



Dr A Velayudham

Professor / CSE

Jansons Institute of Technology



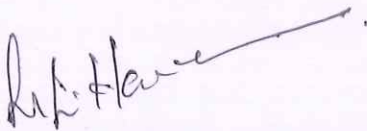
Dr.M Pavithra

AP / CSE

Jansons Institute of Technology

Approved By

Mr.S.M.Srihari shankar
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Industry Readiness Coordinator

Approved By

Dr A Velayudham,
Prof & Head /CSE



Head of Department

Approved By



Principal

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