

BUS554e Industry 4.0

Level: 5

Credit Units: 2.5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY SEMESTER

E-Learning: FULL - Learning is done ENTIRELY online using interactive study materials in Canvas. Students receive guidance and support from online instructors via discussion forums and emails. There are no face-to-face sessions. If the course has an exam component, this will be administered on-campus.

Synopsis:

The Fourth Industrial Revolution has resulted in shifts and disruptions that have the potential to connect billions more people to digital networks, dramatically improving the efficiency of business decision making and organisational processes. This course examines the evolution of Industry 4.0 and its applications in the business world. It provides a comprehensive coverage on the role of data, information, knowledge, as well as various Industry 4.0 technologies and applications. Students will learn about the opportunities and challenges of Industry 4.0, and how organisations and knowledge workers can prepare themselves to reap the benefits of this evolution.

Topics:

- The Various Industrial Revolutions
- Drivers, Enablers, Compelling Forces and Challenges for Industry 4.0
- Smart Factories, Cities, Products and Services
- Related Disciplines, System, Technologies for Enabling Industry 4.0
- Role of Data, Information, Knowledge and Collaboration in Future Organisations
- Business Issues in Industry 4.0

Learning Outcome:

- Compare the various drivers and enablers of Industry 4.0
- Assess the smartness in smart factories, smart cities, smart products and smart services
- Appraise the various systems and technologies used in businesses and the role of data, information, knowledge and collaboration in an Industry 4.0 world
- Prioritise the opportunities and challenges brought about by Industry 4.0
- Recommend how organisations and knowledge workers can reap the benefits of Industry 4.0
- Estimate the power of Cloud Computing in a networked economy
- Identify digitisation and innovative business opportunities provided by new advancements in technology
- Examine emerging technology trends for new technological products, services and techniques

Assessment Strategies (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	DISCUSSION BOARD 1	15
	DISCUSSION BOARD 2	20

Overall Continuous Assessment	PARTICIPATION 1	15
Overall Examinable Components	ECA	50
Total		100