Revised: 04/2021

COURSE STRUCTURE

Name of Course: BUSINESS INNOVATION IN INDUSTRY 4.0

Course Code: DCS1105

Credit Hours: 4

Prerequisite/co-requisite: None

Summary:

The course examines the twelve technological forces shaping business innovation in the Fourth Industrial Revolution (IR 4.0). It is important for students to understand the pace of change leading to IR 4.0. Through understanding of the current trends in the context of IR 4.0, students need to be aware of the business opportunities and challenges resented in this pace of change.

Course Learning Outcomes:

Upon completing this course, the students will be able to:
CLO1: Explain the twelve technological forces that shape the future of business innovation. (C2, PLO1)
CLO2: Examine the opportunities and challenges posed by the current trends in the context of IR 4.0.(C3, PLO2)
CLO3: Demonstrate the ability to present a business pitch based on the current trends in the context of IR4.0. (A3, PLO10)

Course Format:

Total Student Learning Time (SLT) (L = Lecture; T = Tutorial; P = Practical; EL= E-Learning) :					
Learning Hours				**Independent Learning (hr)**	**Total Student Learning Time (hr)**
L	T	P	EL		
28	14	0	14	104	160

Teaching and Delivery Methods/ Teaching Methodology:

Lectures, Tutorial and Practical/Laboratory work delivered in a combination of blended & independent learning

E-Learning provided by INTI makes learning more accessible and convenient for the students. The blended model utilized by INTI is the integration of E-learning via INTI's Learning Management System and the conventional lecturer-led classroom activities. INTI students are required to access to the online learning materials (additional notes, reading materials, online assessments, discussion forums and etc.), so as to acquire a complete learning process. This also promotes self-directed learning in encouraging INTI students to be independent learners.

Syllabus:

	Course Content Outline	CLO*
1-2	Overview of Industry 4.0 History of Industrial Revolution. IR 4.0 definition, principle & trend.	3
3-4	Technological Forces in IR 4.0 (Becoming, Cognifying, Flowing)	1
5-6	Technological Forces in IR 4.0 (Screening, Accessing, Sharing)	1
7-10	Technological Forces in IR 4.0 (Filtering, Remixing, Interacting)	1
11-14	Technological Forces in IR 4.0 (Tracking, Questioning and Beginning)	1
15	IR 4.0 and Manufacturing Sector Smart Factory and Cyber Physical System	3
16-17	IR 4.0 and Supply Chain Management Digitization, Integrated Supply Chain Network and Retailing	3
18-21	IR 4.0 and Finance Sector Fintech and decentralized decisions	3
22-25	IR 4.0 and Media & Communication Connected Consumers and Customized Experiences	2
26-28	Business Issues in IR 4.0 Opportunities and Challenges and Future of Works in IR 4.0	2
	FINAL EXAMINATION	

Student Evaluation:

Continuous Assessment		**Percentage (%)**	**CLO**
1	GROUP ASSIGNMENT	30	2
2	INDIVIDUAL ASSIGNMENT	30	2
3	QUIZ	10	1
4			
Final Assessment		**Percentage (%)**	
PRESENTATION		30	3
Total		**100%**	

Final exam format: NIL

Grading Scale:
A+ (90-100), A (80–89), A- (75-79), B+ (70-74), B (65–69), B- (60–64), C+ (55–59) C (50–54), C- (45–49), D (40–44), F(0–39), RP (Resubmission Pass) Marks capped at 50, RF (Resit Fail) (0-49)

IMPORTANT NOTE:
Students are required to "**PASS**" BOTH continuous and final assessment in order to pass the subject.

Additional Information: NIL

Main Reference(s) Supporting Course:

1 Kelly, K. (2016). The inevitable: understanding the 12 technological forces that will share our future. New York: Viking

Additional References:

1. Bartodziej, C. J. (2017). The Concept Industry 4.0: An Empirical Analysis of Technologies and Applications in Production Logistics. Germany: Springer Gable