Course Title: Technology Based Business Transformation
Semester: I
Credit: 2
Duration: 20 hours

Course Outcomes	Description	Cognition	Hours	Evaluation Tools
CO1	Identify the latest technological trends affecting digital disruptions across sectors.	**L2: Understand**	**2.5**	Internal Quiz, Test End Term- Theory
CO2	Illustrate the use of latest technologies tools to create value and enhance business opportunities.	**L3: Apply**	**6.5**	Internal- Practical End Term- Theory
CO3	Demonstrate the application of technological innovation in various business domain.	**L3: Apply**	**3.5**	Internal- Test, Practical End Term- Theory
CO4	Contrast the use of latest technological tools & techniques across industry to have in-depth insights.	**L4: Analyse**	**3.5**	Internal- Project End Term- Theory
CO5	Assess the impact of technology innovations to to measure its success and disruptions.	**L5: Evaluate**	**4**	Internal- Project End Term- Theory

Mapping CO with PO

Scale 1- low alignment, 2- Moderate alignment, 3 – high alignment, - – No alignment

COs / Pos	PO 1	PO 2	PO 3	PO 4	PO 5
CO1	3	2	-	2	-
CO2	3	3	-	2	-
CO3	2	3	-	2	-
CO4	2	3	2	3	2
CO5	2	3	2	3	2
CO	**2.4**	**2.8**	**2.0**	**2.4**	**2.0**

Session Plan

Sr. No	Hours	Units	COs	Cognition	Evaluation Tools
		Introduction to the Latest Technologies			
1	2.5	Introduction to the latest technologies that changing business trends.	CO1: Identify the latest technological trends affecting digital disruptions across sectors.	L2: Understand	Internal Quiz, Test End Term- Theory
		Applications of the latest technologies			
2	2	Understand the Basics of - ● IOT Concepts, IOT Architecture, IOT Business Models, and Opportunities for IOT ● Artificial Intelligence and the next wave of artificial intelligence	CO2: Illustrate the use of latest technologies tools to create value and enhance business opportunities	L3: Analyse	Internal Quiz, Test End Term- Theory
3	2.5	Understand the Basics of - ● Machine Learning and Deep Learning ● Augmented Reality and Virtual Reality	CO2: Illustrate the use of latest technologies tools to create value and enhance business opportunities	L3: Analyse	Internal Quiz, Test End Term- Theory
4	2	Understand the Basics of - • Block Chain • Emerging & Advanced Technologies • Application program interfaces • Smart Devices • Cloud Computing	CO2: Illustrate the use of latest technologies tools to create value and enhance business opportunities	L3: Analyse	Internal Quiz, Test End Term- Theory
5	3.5	Apply various strategies focusing on the industry impacts of technological innovation and digitizing Products for Sustainability's Sake Innovation.	CO3: Demonstrate the application	L3: Analyse	Internal- Test End Term- Theory

			of technological innovation in various business domain.		
6	3.5	Search and list down various latest Machin Learning, Deep Learning, Augmented Reality, Virtual Reality, and Blockchain technological tools to get in-depth insights and classify them as per the industry.	CO4: Contrast the use of latest technological tools & techniques across industry to have in-depth insights.	L4: Analyse	Internal- Project End Term- Theory
7	4	A Case Study on • Blockchain in Manufacturing: "FabRec": A Prototype for Peer-to-Peer Network of Manufacturing Node • Case Study: 7 Inspiring Case Studies on VR and AR --"Smart Home with Full Automation" • Security-risks-of-cloud-computing	CO5: Assess the impact of technology innovations to to measure its success and disruptions.	L5: Evaluate	Internal- Project End Term- Theory

Pedagogy

1. Lecture
2. Case Studies
3. Presentation and assignments
4. Practical & Projects

Evaluation

Internal	40%
External	60%
Total	**100%**

Parameters of Internal Assessment:

1. Attendance
2. Class Participation
3. Class Test
4. Project

Assessment Mapping

Parameter	Marks	CO 1	CO 2	CO 3	CO 4	CO 5
Internal	20	18%	20%	18%	20%	25%
Attendance	5	20.0%	20.0%	20.0%	20.0%	20.0%
Class Participation	5	20.0%	20.0%	20.0%	20.0%	20.0%
Class Test	5	30.0%	40.0%	30.0%	0.0%	0.0%
Project	5	0.0%	0.0%	0.0%	40.0%	60.0%
End Term	**30**	**13.3%**	**26.7%**	**20.0%**	**20.0%**	**20.0%**
Total	**50**	**15.0%**	**24.0%**	**19.0%**	**20.0%**	**22.0%**

Reference Books:

Book Title	Name of Author	Publisher	Edition No.	Year
Internet of Things – Architecture and design principles	Raj Kamal	Tata McGraw Hill	12th	**2018**
The Digital Transformation Playbook – Rethink Your Business for the Digital Age	David Rogers	Columbia Business School Publishing	2nd	**2016**
Digital Transformation	Lindsay Herbert	Bloomsbury Publication		2018
Demystifying Digital Transformation: A Practitioner's Companion	Nishith Sharan			2018

E-Books:

Book Title	Link	Year
Technology Trends	https://www.forbes.com/sites/jaysondemers/2017/12/30/7-technology-trends-that-will-dominate-2018/#702d35c857d7	

Technology Trends	http://fortune.com/2017/12/26/4-technology-trends-2018/	
Hottest technologies	https://www.inc.com/yoram-solomon/3-hottest-technologies-that-will-change-your-busin.html	
Technologies will change small business	https://hubworks.com/13-technologies-will-change-small-business.html	
Smart city	https://pages.questexweb.com/rs/294-MQF-056/images/Build_a_Smart_City_FINAL.pdf	
Artificial intelligence	https://courses.csail.mit.edu/6.034f/ai3/rest.pdf	
Artificial intelligence	http://gunkelweb.com/coms493/texts/AI_Dummies.pdf	
Bitcoin and cryptocurrency technologies	https://lopp.net/pdf/princeton_bitcoin_book.pdf	
IOT	https://support.ptc.com/WCMS/files/160474/en/PTC_eBook_Impact_of_the_IoT_on_Manufacturers.p	