



# GUJARAT TECHNOLOGICAL UNIVERSITY

Bachelor of Engineering (Minor/Honours Degree Syllabus)

Subject Code : 117AG01

Subject Name : Applications of AI

WEF Academic Year :	2022-23
Semester :	7
Category of the Course :	Compulsory

### Course Objective :

To give deep knowledge of AI and how AI can be applied in various fields to make the life easy.

### Course Scheme :

Teaching Scheme			Total Credits	Assessment Pattern and Marks				Total Marks
L	T	PR	C	Theory		Practical		
				ESE (E)	PA(M)	ESE (V)	PA (I)	
03	00	00	03	70	00	00	00	70

### Course Content :

Sr. No.	Course Content	No. of Hours	% of Weightage
1	<b>Module 1 :</b> Linguistic aspects of natural language processing, A.I. And Quantum Computing, Applications of Artificial Intelligence (AI) in business.	12	25
2	<b>Module 2 :</b> Emotion Recognition using human face and body language, AI based system to predict the diseases early, Smart Investment analysis, AI in Sales and Customer Support.	8	20
3	<b>Module 3 :</b> Robotic Processes Automation for supply chain management.	7	10
4	<b>Module 4 :</b> AI-Optimized Hardware, Digital Twin i.e. AI Modelling, Information Technology & Security using AI.	8	20
5	<b>Module 5 :</b> Recent Topics in AI/ML: AI/ML in Smart solutions, AI/ML in Social Problems handling, Block chain and AI.	7	15
	<b>Total :</b>	<b>42</b>	<b>100</b>



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## Text Book / References :

1. Sameer Dhanrajani, AI and Analytics, Accelerating Business Decisions, John Wiley & Sons.
2. Life 3.0: Being Human in the Age of Artificial Intelligence by Max Tegmark, published July 2018.
3. Homo Deus: A Brief History of Tomorrow by Yuval Noah Harari, published March 2017.
4. Artificial Intelligence in Practice: How 50 Successful Companies Used AI and Machine Learning to Solve Problems, Bernard Marr, Matt Ward, Wiley.

## Course Outcome :

After Completion of the Course, Student will able to :

No	Course Outcomes	RBT Level*
01	To correlate the AI and solutions to modern problem.	CR
02	To decide when to use which type of AI technique.	RM

\*RM: Remember, UN: Understand, AP: Apply, AN: Analyze, EL: Evaluate, CR: Create

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