



SYNERGY SCHOOL OF ENGINEERING, DHENKANAL
DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

LESSON PLAN

Discipline: 1 st year All Branches	Semester: 1 st	Name of the Faculty : Aparna Priyadarshini Subject Code: TH5
Subject: Fundamental of Computing & AI	No of Days/Week: 2	Start Date: 17.08.2026 End Date: 17.01.2027

Week	Class Day	Theory Topic
Week 1	1 st	Introduction to Computer – Definition, Characteristics & Applications
	2 nd	Functional Block Diagram of Computer
Week 2	1 st	Input Devices – Keyboard, Mouse
	2 nd	Input Devices – Scanner, Joystick
Week 3	1 st	Output Devices – Monitor, Printer
	2 nd	Output Devices – Speaker, Review
Week 4	1 st	CPU – ALU and Control Unit
	2 nd	Primary Memory (RAM & ROM)
Week 5	1 st	Secondary Memory – HDD & SSD
	2 nd	Memory Hierarchy + Unit-1 Revision
Week 6	1 st	Introduction to Software
	2 nd	Types of Software – System, Application & Utility
Week 7	1 st	Operating System – Definition & Functions
	2 nd	Types of Operating Systems
Week 8	1 st	Computer Virus – Introduction & Types
	2 nd	Anti-virus Software & Virus Prevention
Week 9	1 st	Unit-2 Revision
	2 nd	Internal Assessment-1 Discussion/Practice
Week 10	1 st	Basics of Computer Networks
	2 nd	Types of Networks – PAN, LAN
Week 11	1 st	Types of Networks – MAN, WAN
	2 nd	Transmission Media – Wired & Wireless
Week 12	1 st	Networking Devices – Hub, Switch
	2 nd	Networking Devices – Router
Week 13	1 st	Internet, ISP, Web Browser
	2 nd	Search Engines & Internet Services
Week 14	1 st	E-mail, WWW, Chatting & Conferencing

Aparna M
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	2 nd	Online Shopping & Digital India Portals
Week 15	1 st	Algorithm – Introduction & Characteristics
	2 nd	Flowchart – Symbols & Rules
Week 16	1 st	Flowchart – Sum & Average
	2 nd	Flowchart – Greatest Number
Week 17	1 st	Flowchart – Even/Odd
	2 nd	Flowchart – Average using Loop
Week 18	1 st	Flowchart – Factorial
	2 nd	Unit-4 Revision + IA-2 Discussion
Week 19	1 st	Introduction to Python & Installation
	2 nd	Basic Python Syntax
Week 20	1 st	Input() and print() Statements
	2 nd	Variables & Constants
Week 21	1 st	Data Types – int, float, string
	2 nd	Arithmetic & Assignment Operators
Week 22	1 st	Logical & Comparison Operators
	2 nd	Conditional Statement – if
Week 23	1 st	if...else Statement
	2 nd	if...elif...else Statement
Week 24	1 st	for Loop
	2 nd	while Loop
Week 25	1 st	Python Programs using Conditions
	2 nd	Python Programs using Loops
Week 26	1 st	Practice Programs
	2 nd	Unit-5 Revision
Week 27	1 st	Artificial Intelligence – Definition & Goals
	2 nd	Characteristics & Importance of AI
Week 28	1 st	Applications of AI
	2 nd	AI in Daily Life
Week 29	1 st	Generative AI – Definition & Examples
	2 nd	Machine Learning – Definition & Applications
Week 30	1 st	Deep Learning – Definition & Applications
	2 nd	Unit-6 Revision
Week 31	1 st	Internal Assessment-3 Discussion
	2 nd	Complete Course Revision
Week 32	1 st	Question Paper Discussion & Doubt Clearing
	2 nd	Final Revision & End Semester Preparation

Prepared by: Aparna M
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Comp. Science & Engg. Dept
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SYNERGY SCHOOL OF ENGINEERING, DHENKANAL
DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

LESSON PLAN

Discipline: 1 st year All Branches	Semester: 1 st	Name of the Faculty : Asmita Pranayani Subject Code: TH5
Subject: Fundamental of Computing & AI	No of Days/Week: 2	Start Date: 17.08.2026 End Date: 17.04.2027

Week	Class Day	Theory Topic
Week 1	1 st	Introduction to Computer – Definition, Characteristics & Applications
	2 nd	Functional Block Diagram of Computer
Week 2	1 st	Input Devices – Keyboard, Mouse
	2 nd	Input Devices – Scanner, Joystick
Week 3	1 st	Output Devices – Monitor, Printer
	2 nd	Output Devices – Speaker, Review
Week 4	1 st	CPU – ALU and Control Unit
	2 nd	Primary Memory (RAM & ROM)
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	2 nd	Memory Hierarchy + Unit-1 Revision
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	2 nd	Types of Software – System, Application & Utility
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	2 nd	Anti-virus Software & Virus Prevention
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	2 nd	Internal Assessment-1 Discussion/Practice
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Week 14	1 st	E-mail, WWW, Chatting & Conferencing

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	2 nd	Online Shopping & Digital India Portals
Week 15	1 st	Algorithm – Introduction & Characteristics
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	2 nd	Flowchart – Greatest Number
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Week 30	1 st	Deep Learning – Definition & Applications
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Week 31	1 st	Internal Assessment-3 Discussion
	2 nd	Complete Course Revision
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	2 nd	Final Revision & End Semester Preparation

Prepared by: A.P. 05/08/2026

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LESSON PLAN

Discipline: 1 st year All Branches	Semester: 1 st	Name of the Faculty : Aurobinda Gochhayat Subject Code: TH5
Subject: Fundamental of Computing & AI	No of Days/Week: 2	Start Date: 17.08.2024 End Date: 17.04.2027

Week	Class Day	Theory Topic
Week 1	1 st	Introduction to Computer – Definition, Characteristics & Applications
	2 nd	Functional Block Diagram of Computer
Week 2	1 st	Input Devices – Keyboard, Mouse
	2 nd	Input Devices – Scanner, Joystick
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	2 nd	Online Shopping & Digital India Portals
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