

GANESH INSTITUTE OF ENGINEERING AND TECHNOLOGY, POLYTECHNIC

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

NAME: ANULIPSA SAHOO

LESSON PLAN CUM PROGRESS REPORT

SUBJECT: ARTIFICIAL INTELLIGENCE & MACHINE LEARNING
(Elective)

SEMESTER: 6th

BRANCH: COMPUTER SCIENCE & ENGINEERING

LECTURE NO.	CO	BTL	TOPIC TO BE COVERED	WEB REFERENCE IF ANY	PLAN DATE	ACTION DATE	REVIEW BY HOD
1	CO1	1	Introduction to AI Definition of AI, History of AI	https://youtu.be/ZwRfBaFbTeM?si=SmbP7BYRwqGQBZa	04-02-2025		
2	CO1	1	Goals and Applications of AI	https://youtu.be/FnN5cCyuM58?si=mF6QB8rX1NkfyHp6	05-02-2025		
3	CO1	1	Intelligent agent	https://youtu.be/BkedAnQfJ_U?si=TcPmd_Opo2H04iaj	06-02-2025		
4	CO1	2	Computer vision	https://youtu.be/puB-4LuRNys?si=W9hf3qlXvai5nAFd	07-02-2025		
5	CO1	2	Natural Language Processing	https://youtu.be/bPpwZxasJo0?si=u_hQj0XDgAJzior6	08-02-2025		
6	CO1	3	Turing test	https://youtu.be/3wLqsRLvV-c?si=2vHSVauNahTBKf_a	10-02-2025		
7	CO1	3	Problem solving in Games	https://youtu.be/PL0tEITjSt8?si=CUpRvGKWSxf2plQp	11-02-2025		
8	CO2	3	Introduction to Search Algorithm	https://youtu.be/CnqMV_wXcBg?si=inH-XsKw0tPW5yl6	12-02-2025		
9	CO2	2	Search, Search space, Search Tree	https://youtu.be/CnqMV_wXcBg?si=z-4SCwNFA-COFwU0	13-02-2025		
10	CO2	2	Search, Search space, Search Tree	https://youtu.be/CnqMV_wXcBg?si=z-4SCwNFA-COFwU0	14-02-2025		

11	C02	1	Categories and Types of Search	https://youtu.be/9n4I491nuOl?si=2dCGxSgs31uIVhXX	17-02-2025		
12	C02	1	Categories and Types of Search	https://youtu.be/9n4I491nuOl?si=2dCGxSgs31uIVhXX	18-02-2025		
13	C02	1	Heuristic Algorithm vrs Solution Guaranteed Algorithm	https://youtu.be/5F9YzKpnaRw?si=3vGqUNMjNcVFDcYf	19-02-2025		
14	C02	2	Local search and Optimal problem(Hill climbing, BFS,A*,AO*)	https://youtu.be/3SiWtAnUR0s?si=KM9txT4t9fQr3CYg	20-02-2025		
15	C02	1	Local search and Optimal problem(Hill climbing, BFS,A*,AO*)	https://youtu.be/3SiWtAnUR0s?si=KM9txT4t9fQr3CYg	22-02-2025		
16	C02	2	Adversarial Search	https://youtu.be/YatDNnaJ1TU?si=rLTX5tvq07FwPM8m	23-02-2025		
17	C02	1	AI and Game Playing	https://youtu.be/FFzdXJ49KAI?si=a7qCk3BFwe0FA_5x	24-02-2025		
18	C02	2	AI and Game Playing	https://youtu.be/FFzdXJ49KAI?si=a7qCk3BFwe0FA_5x	27-02-2025		
19	C03	1	Knowledge Representation and Reasoning	https://youtu.be/9iN30_oL2ac?si=wdgdAqU8LTEWPQKx	28-02-2025		
20	C03	3	What to represent, Knowledge	https://youtu.be/9iN30_oL2ac?si=ITmcOYTEBPb3gjWX	01-03-2025		
21	C03	1	Properties of Knowledge Representation System, Approaches	https://youtu.be/9iN30_oL2ac?si=ITmcOYTEBPb3gjWX	03-03-2025		
22	C03	2	Properties of Knowledge Representation System, Approaches	https://youtu.be/9iN30_oL2ac?si=ITmcOYTEBPb3gjWX	04-03-2025		
23	C03	1	Knowledge Representation	https://youtu.be/9iN30_oL2ac?si=ITmcOYTEBPb3gjWX	06-03-2025		
24	C03	2	Reasoning and Types of reasoning	https://youtu.be/9iN30_oL2ac?si=KtotAEPjwdqCcF90	07-03-2025		
25	C04	1	Machine Learning	https://youtu.be/ukzFI9rgwfU?si=1DUkwvKdZL eh81kp	08-03-2025		

26	C04	2	Statistical or Unsupervised Learning	https://youtu.be/W01tIRP_Rqs?si=_gNilU0V7tJbNkx	10-03-2025		
27	C04	1	Statistical or Unsupervised Learning	https://youtu.be/W01tIRP_Rqs?si=_gNilU0V7tJbNkx	11-03-2025		
28	C04	2	ML Properties	https://youtu.be/M7n551ot8oQ?si=WPmffku8Xwe0P4MK	12-03-2025		
29	C04	2	ML Properties	https://youtu.be/M7n551ot8oQ?si=WPmffku8Xwe0P4MK	13-03-2025		
30	C04	1	Reinforcement Learning	https://youtu.be/nlglv4lfJ6s?si=mRGPM3-r8VWP8--w	17-03-2025		
31	C04	3	Reinforcement Learning	https://youtu.be/nlglv4lfJ6s?si=mRGPM3-r8VWP8--w	18-03-2025		
32	C04	2	Decision Tree	https://youtu.be/mvveVcbHyne?si=gBlxz4W7VEMD5rTg	19-03-2025		
33	C04	3	Decision Tree	https://youtu.be/mvveVcbHyne?si=gBlxz4W7VEMD5rTg	20-03-2025		
34	C04	3	Decision Tree	https://youtu.be/mvveVcbHyne?si=gBlxz4W7VEMD5rTg	22-03-2025		
35	C05	3	Introduction to Pattern recognition	https://youtu.be/rra1j5J8WyY?si=gDjV0Nn9GQmxQDDX	24-03-2025		
36	C05	3	Introduction to Pattern recognition	https://youtu.be/rra1j5J8WyY?si=gDjV0Nn9GQmxQDDX	25-03-2025		
37	C05	1	Design Principles of Pattern recognition system	https://youtu.be/SWC1oL-dZos?si=B4js2o73HAjh4a_m	26-03-2025		
38	C05	2	Design Principles of Pattern recognition system	https://youtu.be/SWC1oL-dZos?si=B4js2o73HAjh4a_m	27-03-2025		

39	CO5	3	Statistical Pattern recognition System	https://youtu.be/SyIkQ_zojbc?si=Uf4C_chKjj4-XZvO_	29-03-2025		
40	CO5	3	Statistical Pattern recognition System	https://youtu.be/SyIkQ_zojbc?si=Uf4C_chKjj4-XZvO	30-03-2025		
41	CO5	1	Machine Perception	https://youtu.be/MhRd0vvdaj0?si=PzTQtSkqt2-4iTne	02-04-2025		
42	CO5	1	Line Finding and Interception	https://youtu.be/_LvA1xlQLs?si=1LVYvgAl0FaCjjO4	03-04-2025		
43	CO5	1	Line Finding and Interception	https://youtu.be/_LvA1xlQLs?si=1LVYvgAl0FaCjjO4	04-04-2025		
44	CO5	2	Line Finding and Interception	https://youtu.be/_LvA1xlQLs?si=1LVYvgAl0FaCjjO4	05-04-2025		
45	CO5	1	Object Identification	https://youtu.be/G3X8PfJ5Yal?si=zOHG3g80pTKj23KK	07-04-2025		
46	CO6	1	Expert System	https://youtu.be/l0CRFuA0m_8?si=Z-Yyghe4Y86NgV8	09-04-2026		
47	CO6	2	Introduction to Expert system	https://youtu.be/l0CRFuA0m_8?si=Z-Yyghe4Y86NgV8	10-04-2026		
48	CO6	1	Basic Architecture	https://youtu.be/LhqjTyGj7lk?si=IKALdOEBJxXceQNd	13-04-2026		
49	CO6	3	Type of Problem Solved by Expert system	https://youtu.be/o0GFC6c_k4g?si=VsO3VEfoF8JieBNx	15-04-2026		
50	CO6	2	Type of Problem Solved by Expert system	https://youtu.be/o0GFC6c_k4g?si=VsO3VEfoF8JieBNx	16-04-2026		
51	CO6	3	Features of an Expert System	https://youtu.be/NmF-VJ2NrT0?si=YdTaRoDywykGdf1p	17-04-2026		
52	CO6	1	Features of an Expert System	https://youtu.be/NmF-VJ2NrT0?si=YdTaRoDywykGdf1p	18-04-2026		
53	CO6	1	Expert System Architectures	https://youtu.be/LhqjTyGj7lk?si=y4-b3BxYaXbl-fsd	20-04-2026		

54	CO6	2	Expert System Architectures	https://youtu.be/LhqjTyGj7Ik?si=y4-b3BxYaXbl-fsd	21-04-2026		
55	CO6	3	Expert System Tools	https://youtu.be/T3cOU_ljfr8?si=pT2NxViBabeFzLKk	22-04-2026		
56	CO6	3	Expert System Tools	https://youtu.be/T3cOU_ljfr8?si=pT2NxViBabeFzLKk	23-04-2026		
57	CO6	2	Existing Expert Systems	https://youtu.be/MjJSW33JA5k?si=_GXWQjFbpQDt0PXa	24-04-2026		
58	CO6	2	Existing Expert Systems	https://youtu.be/MjJSW33JA5k?si=_GXWQjFbpQDt0PXa	25-04-2026		
59	CO6	1	Applications of Expert System Technology	https://youtu.be/MumNmSKnGhs?si=l0ttPpbxTZnkVf2M	27-04-2026		
60	CO6	1	Applications of Expert System Technology	https://youtu.be/MumNmSKnGhs?si=l0ttPpbxTZnkVf2M	28-04-2026		

PRINCIPAL

FACULTY

HOD, CIVIL ENGG.