SRM Institute of Science and Technology								
			f Computing					
		18CSC305J - ARTIFICIAL INTEL	LIGENCE - ALL UNIT VIDEO LINKS					
L								
S.NO	Unit	Торіс	Video Link					
1		Introduction to Al-Al techniques, Problem solving with Al	https://youtu.be/kA5AmIGEXB4					
2		Al Models, Data acquisition and learning aspects in Al, Problem solving-Problem solving process, Formulating problems	https://youtu.be/tOTOAeith8l, https://youtu.be/pEe-pH6B10					
3		Problem types and characteristics, Problem space and search	https://youtu.be/pAFiz-LyH7U , https://youtu.be/SVzf8H9qDeE					
4	1	Intelligent agent, Rationality and Rational agent with performance measures, Flexibility and Intelligent agents, Task environment	ent and its properties					
5		Types of agents, Other aspects of agents						
6		Constraint satisfaction problems(CSP), Crypto arithmetic puzzles						
7		CSP as a search problem-constrains and representation, CSP-Backtracking, Role of heuristic	https://youtu.be/BUYTKxSl0OM					
8		CSP-Forward checking and constraint propagation, CSP-Intelligent backtracking						
1		Searching techniques- Uniformed searchGeneral search Algorithm	https://youtu.be/PUwSDMo_32c_, https://youtu.be/bY1TzemoYss					
2		Uniformed search Methods-Breadth first search	https://youtu.be/a_08zXK9Pzo					
3		Uniformed search Methods-Depth first search	https://youtu.be/gSOFoC79gIM, https://youtu.be/NapYvAiKIAQ, https://youtu.be/axKplUyQZwv					
4		Uniformed search Methods-Depth limited search	https://youtu.be/RP8xQA1ew8					
5		Uniformed search Methods- Iterative Deepening search	https://youtu.be/d8L94AokfPw					
6		Bi-directional search	https://youtu.be/Tp6FmZS60c0					
7		Informed search- Generate and test, Best First search	https://www.youtube.com/watch?v=vjVZ1tk34rk					
8		Informed search-A* Algorithm	https://youtu.be/kmo1TpHaGOw					
9	2	AO* research	https://youtu.be/bCqEVn1d0Uo					
		Local search Algorithms-Hill Climbing, Simulated Annealing	https://youtu.be/ljakAU72km8					
10		Local Beam Search	https://youtu.be/VdlaxpwjBvg					
11		Genetic Algorithms	https://youtu.be/Bf8FQVcnZY, https://youtu.be/svzlUmTcW6w					
12		Adversarial search MethodsGame playing-Important concepts						
13		Game playing and knowledge structure	https://youtu.be/a6PlgyG8iys. https://youtu.be/J0Km3aCrDVE					
14		Game as a search problem-Mini max approach	Imperi yankasana nyaéta ke imperi yankasana kinada ke k					
15		Mini max Algorithm						
16		Alpha beta pruning	https://youtu.be/MvTnDeHjv4U					
18		Knowledge and reasoning-Approaches and issues of knowledge reasoning, Knowledge base agents-Logic Basics	https://drive.google.com/file/d/1dwhZtoSpVunlvFveixynAvAxvkvd2tJ7/view?usp=share_link, https://youtu.be/wBqZH6Q2jXo					
19		Logic-Propositional logic-syntax ,semantics and inferences, Propositional logic-Reasoning patterns	https://youtu.be/yTjs3cE0hCQ.https://youtu.be/yTjs3cE0hCQ, https://youtu.be/1mcFlA6YhCq, https://youtu.be/K4e5mWlx-pY					
20		Predicate logic – Syntax and semantics, instance and is relationship, Unification and Resolution	https://drive.google.com/drive/folders/1yug3W2Z-4YPGMQgn5y3M6mW8QLohgmLh?usp=sharing					
21	3	Knowledge representation using rules, Knowledge representation using semantic nets	https://drive.google.com/drive/folders/1-t7y9H9QB4uWDp6rfSIDNqXuMyRHOoDz?usp=sharing					
22	-	Knowledge representation using frames, Inferences	https://drive.google.com/drive/folders/1JbtECcx95mwMPP0XxuaJgyZM9ZhGJCni?usp=sharing					
23		Uncertain Knowledge and reasoning-Methods, Bayesian probability and belief network	https://youtu.be/JS8vDX89wTY					
24		Probabilistic reasoning, Probabilistic reasoning over time	https://drive.google.com/file/d/1ifb7HK3kBX_hWw2Xl8DxaxYup19oymBy/view?usp=sharing					
25		Forward and backward reasoning, Other uncertain techniques-Data mining, Fuzzy logic, Dempster -shafer theory	https://drive.google.com/file/d/1juFx4VsbYUSrkZ_RdPMwsE3q3399ilEM/view/Pusp=share_link, https://drive.google.com/file/d/1U2m8rTaHNQ29RP	111hKhontEppCz	KczM/view?usp=	share link		
26		Planning-Planning problems, Simple planning agent, Planning languages	https://drive.google.com/file/d/1b_SCf1d8xuvFk5TY5pdxdhIDAxoGNeG/view?usp=share_link					
27		Blocks world ,Goal stack planning, Mean Ends Analysis	https://youtu.be/uRwst4bUWVI, https://youtu.be/EHM_td07OIE					
28		Non-linear Planning, Conditional planning, Reactive planning	https://youtu.be/jlZrMoUlaA0					
29		Learning- Machine learning, Goals and Challenges of machine learning	https://youtu.be/F5Mchd4Usf4					
30	4	Learning concepts, models, Artificial neural network based learning- Back propagation	https://youtu.be/4NCcOxE07BE					
31		Support vector machines, Reinforcement learning	https://www.youtube.com/watch?v=VUAanxh2sVk, https://www.youtube.com/watch?v=nfdQQcDMRz0					
32		Adaptive learning, Multi_agent based learning	https://drive.google.com/file/d/1ekr-ee.JqdtkZbR9eNo8epR3uYsVGBd0 /view?usp=share link					
33		Faceable learning I combe for decision motion. Nightly and learning County I combe	https://youtu.be/DxA9OATqhgA					
33		Ensemble learning, Learning for decision making, Distributed learning, Speedup learning	https://drive.google.com/file/d/1Zn3AzG6mwCF6IMGM-ZccAqj543zQ19/view?usp=share_link					
H		Expert system-Architecture, Pros and Cons of expert system	https://drive.google.com/file/d/1LGXqU3CaqGoNxnQKEfrgNdeylkGWCu-o/view			-		
34		Expert system-Architecture, Pros and Cons of expert system	https://drive.google.com/file/d/1Neo2_6T14zWO0XM0JIVF8y2enHP18zi9/view			+		
35		Rule based systems, Frame based expert system & Case study	https://drive.google.com/drive/folders/1laN-VpFnDEVVvVqXsFjjyQRxIqBqA7jb?usp=share_link					
36		Natural language processing-Levels of NLP , NLP Applications	https://youtu.be/hqTjLWggfqQ			-		
<u> </u>		Information retrieval,Information Extraction, Business intelligence and analytics	https://drive.google.com/drive/folders/1Z_jHwCnjxqte/cxeBcR_CWc9KIZ19AeN?usp=sharing_eil_m&ts=63d73e98			-		
38	5	Machine translation, NLP Applications	https://youtu.be/hqTiLWqqfqQ			-		
39		Advance topics in Artificial Intelligence- Cloud Computing and intelligent agent						
\vdash		Deep learning Algorithms	https://drive.google.com/drive/folders/1qpUgzvNxNakyS5S3FTaHIHjcSLHyj1X?usp=share_link					
\vdash		Deep learning Algorithms	https://youtu.be/VBwhOg_ybwk					
40		Syntactic and Semantic Analysis, Sentiment Analysis	https://drive.google.com/file/d/1KRKH8z4vzjOjQYdSc6QDScasWvS7dkg/view?usp=share_link					
41		Planning and logic in intelligent agents						

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4		Uniformed search Methods-Depth limited search	https://youtu.be/RP8xQA1ew6
5		Uniformed search Methods- Iterative Deepening search	https://youtu.be/d8L94AokfPw
6		Bi-directional search	https://youtu.be/Tp6FmZS60c0
7		Informed search- Generate and test, Best First search	https://smist-my.sharepoint.com/:v/g/personal/arunam smist edu in/ EV4czVUXaGVGpJslrbZoXfwBqmBmv ICICni1hJinExCyq?e=on64V
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13		Game playing and knowledge structure	
14		Game as a search problem-Mini max approach	
15		Mini max Algorithm	https://youtu.be/a6PiqvG8ivs
16		Alpha beta pruning	
17		Game theory problems	
	Online Course - udemy	Genetic Algorithm Concepts and Working	https://www.udemy.com/course/genetic-algorithm-concepts-and-working/?referralCode=93C01E5C41F0BC275598