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3.	<b>Knowledge Representation:</b> Knowledge Representation issues. Knowledge Representation using Predicate Logic: Unification, resolution. Rule based Systems: Forward versus backward reasoning, conflict resolution. <b>Structured Knowledge Representation:</b> Semantic Nets, Frames, conceptual dependency, scripts.	7
4.	<b>Programming Languages:</b> Fundamental and concepts of Programming languages like Prolog or Lisp. Relationship of languages with Knowledge representation and inferences	6
5.	<b>Reasoning:</b> Handling uncertainty Non-Monotonic Reasoning, Probabilistic reasoning, use of certainty factors, fuzzy logic. Learning Concept of learning, learning automation, genetic algorithm, learning by inductions, neural nets.	8
6.	<b>Applications:</b> Expert Systems: Architecture, Domain Knowledge, Knowledge Acquisition, Case Studies: MYCIN, RI, Natural language Processing: Syntactic, Semantic and Pragmatic Analysis, Robotics etc.	8
TOTAL		42

11. Suggested Books

S.No.	Name of Books / Authors/ Publishers/ Year of Publication/ Reprint
Text Books	
1.	Artificial Intelligence, E. Rich and K. Knight, TMH, 2nd ed.(ISBN- 978-0070522633),1992
2.	Principles of AI, N.J. Nilsson, , Narosa Publ. House, (ISBN: 978-81-85198-29-3),1990
Reference Books	
1.	"Neural Networks in Computer Intelligence" by KM Fu, McGraw Hill (ISBN- 978-0136042594),1992
2.	Artificial Intelligence: Structures and Strategies for Complex Problem Solving (5th Edition). George F. Luger, 2005. Addison-Wesley. (ISBN: 978-8131723272)
3.	Artificial Intelligence: A Guide to Intelligent Systems (2nd Edition).Michael Negnevitsky, 2005. Addison-Wesley. (ISBN: 978-8131720493)
4.	"Introduction to Artificial Expert Systems" D Wo Patterson, , PHI, 1992 (ISBN: 978-0134771007)

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