CO's of MCA 5th sem

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MCA501	**Artificial Intelligence**	**1. describe the key components of the artificial intelligence (AI) field and its relation and role in Computer Science; 2. identify and describe artificial intelligence techniques, including search heuristics, knowledge representation, automated planning and agent systems, machine learning, and probabilistic reasoning; 3. identify and apply AI techniques to a wide range of problems, including complex problem solving via search, knowledge-base systems, machine learning, probabilistic models, agent decision making, etc.; 4. Communicate clearly and effectively using the technical language of the field correctly.**
MCA502	**Design and analysis of algorithms**	**1. Become familiar with fundamental data structures. 2. Learn how to analyze algorithms and estimate their worst-case and average-case behavior. 3. Apply important algorithmic design techniques and become able to handle operations like Sorting and Searching. 4. To design and implement non-linear data structure.**
MCA503	**Web Technologies**	**1. Describe the XML basics, Editors, Schemas and Document Object Model. 2. Familiar with the AJAX, jQuery and working with events 3. Description of Web Services its Uses & Types and Describe the concept of SOAP and JSON. 4. Describe the concept of Content management System, Study of Word Press & Creation of Websites.**
MCA504	**Object Oriented Analysis & Design with UML**	**1. Understanding of basics object-oriented design methodology. 2. Design of problem using object model involving class diagrams, object diagrams.**

		3. Understanding the concepts of generalization and associations 4. Design of problem using dynamic model involving state transition diagrams.
MCA505	**Software Lab–XI(Web Technologies)**	1. Analyse a web page and identify its elements and attributes. 2. Create web pages using XHTML and Cascading Styles sheets 3. Build web applications using PHP 4. Create XML documents. 5. Create XML Schema. 6. Build and consume web services
MCA506	**Software Lab–XII (Object Oriented Analysis and Design with UML)**	1. Understanding the basic object-oriented design methodology using UML. 2. Implementation and design of problem using object model involving class diagrams, object diagrams using UML 3. Implementation of the concepts of generalization and associations using UML. 4. Implementation and design of problem using dynamic model involving state transition diagrams using UML. 5. Implementation and design of problem using functional model involving data flow diagrams. 6. Understand of basic design structures in UML.