

**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WB**  
**Syllabus of BCA**  
**(Effective for 2020-2021 Admission Session)**  
**Choice Based Credit System**

<b>Name of the Course: BCA</b>			
<b>Subject: Introduction to AI and Machine Learning</b>			
<b>Course Code: BCAD601B</b>		<b>Semester: 6th</b>	
<b>Duration: 48 Hrs.</b>		<b>Maximum Marks: 100 +100</b>	
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	
<b>Theory: 4</b>		<b>End Semester Exam: 70</b>	
<b>Tutorial: 0</b>		<b>Attendance : 5</b>	
<b>Practical: 4</b>		<b>Continuous Assessment: 25</b>	
<b>Credit: 4+2</b>		<b>Practical Sessional internal continuous evaluation: 40</b>	
		<b>Practical Sessional external examination: 60</b>	
<b>Aim:</b>			
<b>Sl. No.</b>			
<b>1.</b>	Define Artificial Intelligence (AI) and understand its relationship with data		
<b>2.</b>	Understand Machine Learning approach and its relationship with data science		
<b>3.</b>	Identify the application		
<b>4.</b>	Define Machine Learning (ML) and understand its relationship with Artificial Intelligence		
<b>Objective:</b>			
<b>Sl. No.</b>			
<b>1.</b>	Gain a historical perspective of AI and its foundations		
<b>2.</b>	Become familiar with basic principles of AI toward problem solving, inference, perception, knowledge representation, and learning.		
<b>3.</b>	Investigate applications of AI techniques in intelligent agents, expert systems, artificial neural networks and other machine learning models.		
<b>4.</b>	Experience AI development tools such as an 'AI language', expert system shell, and/or data mining tool.		
<b>5.</b>	Experiment with a machine learning model for simulation and analysis.		
<b>6.</b>	Explore the current scope, potential, limitations, and implications of intelligent systems		
<b>Pre-Requisite:</b>			
<b>Sl. No.</b>			
<b>1.</b>	Basic Statistical and Computational knowledge		
<b>Contents</b>			<b>4 Hrs./week</b>
<b>Chapter</b>	<b>Name of the Topic</b>	<b>Hours</b>	<b>Marks</b>
<b>01</b>	<b>Artificial intelligence fundamentals</b> A.I. systems integrating approaches and methods.- Advanced search- Constraint satisfaction problems - Knowledge representation and reasoning - Non-standard logics - Uncertain and probabilistic reasoning (Bayesian networks, fuzzy sets).- Foundations of semantic web: semantic networks and description logics. - Rules systems: use and efficient implementation.- Planning systems	<b>9</b>	<b>14</b>
<b>02</b>	<b>Machine learning</b>	<b>9</b>	<b>14</b>

# Bca 6th Sem Notes

**Anna Lorraine Guthrie**



## **Bca 6th Sem Notes:**

Database Management System (DBMS) A Practical Approach Rajiv Chopra, 2010 Many books on Database Management Systems DBMS are available in the market they are incomplete very formal and dry My attempt is to make DBMS very simple so that a student feels as if the teacher is sitting behind him and guiding him This text is bolstered with many examples and Case Studies In this book the experiments are also included which are to be performed in DBMS lab Every effort has been made to alleviate the treatment of the book for easy flow of understanding of the students as well as the professors alike This textbook of DBMS for all graduate and post graduate programmes of Delhi University GGSIPU Rajiv Gandhi Technical University UPTU WBTU BPUT PTU and so on The salient features of this book are 1 Multiple Choice Questions 2 Conceptual Short Questions 3 Important Points are highlighted Bold faced 4 Very lucid and simplified approach 5 Bolstered with numerous examples and CASE Studies 6 Experiments based on SQL incorporated 7 DBMS Projects added Question Papers of various universities are also included

**Computer Graphics** Rajiv Chopra, 2010 Many Books on Computer Graphics C G are available in the market but they tend to be dry and formal I have made this book the most lucid and simplified that A student feels as if a teacher is sitting behind him and guiding him It can be used as a textbook also for all graduates and postgraduates programs of DU GGSIPU JNU JNTU UPTU GNDU VTU RGPV and Nagpur Universities of India

Mathematical Reviews ,2004 **Readers' Guide to Periodical Literature** ,1918 Author and subject index to a selected list of periodicals not included in the Readers guide and to composite books *Reader's Guide to Periodical Literature Supplement* ,1919 **Readers' Guide to Periodical Literature** Anna Lorraine Guthrie,1915 An author subject index to selected general interest periodicals of reference value in libraries *Reviews in Number Theory 1973-83* Richard K. Guy,1984 **International Index to Periodicals** ,1915 An author and subject index to publications in fields of anthropology archaeology and classical studies economics folklore geography history language and literature music philosophy political science religion and theology sociology and theatre arts **English Mechanic and World of Science** ,1878 Japanese Journal of Applied Physics ,2005 **International Catalogue of Scientific Literature** ,1909 *International Catalogue of Scientific Literature, 1901-1914* ,1902 **Buddhism in America** Tetsuden Kashima,1977-08-23 *Cost Engineering* ,2005 *The Rural New-Yorker* ,1927 **Moody's Bond Record** ,1998 *International Index to Periodicals* ,1940 *Reviews in Functional Analysis, 1980-86* ,1989 **Dream by the River;** **Two Centuries of Saint Louis Catholicism, 1766-1967** William Barnaby Faherty,1973 Diario Oficial Brazil,1961 Laws decrees and administrative acts of government

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