

COMPUTER SCIENCE AND ENGINEERING/CS

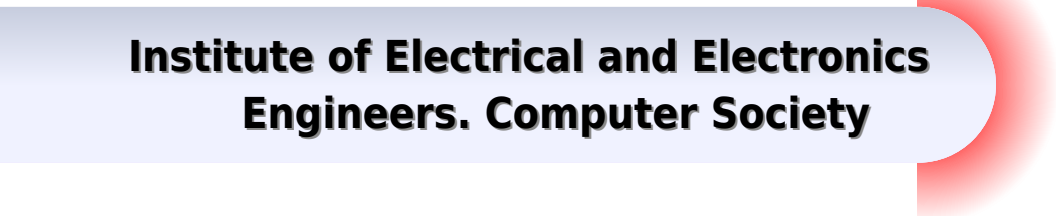
B.TECH. (CSE/CS)

SEVENTH SEMESTER (DETAILED SYLLABUS)

Artificial Intelligence (KCS071)		
Course Outcome (CO)		Bloom's Knowledge Level (KL)
At the end of course , the student will be able to understand		
CO 1	Understand the basics of the theory and practice of Artificial Intelligence as a discipline and about intelligent agents.	K ₂
CO 2	Understand search techniques and gaming theory.	K ₂ , K ₃
CO 3	The student will learn to apply knowledge representation techniques and problem solving strategies to common AI applications.	K ₃ , K ₄
CO 4	Student should be aware of techniques used for classification and clustering.	K ₂ , K ₃
CO 5	Student should aware of basics of pattern recognition and steps required for it.	K ₂ , K ₄
DETAILED SYLLABUS		3-0-0
Unit	Topic	Proposed Lecture
I	INTRODUCTION : Introduction-Definition – Future of Artificial Intelligence – Characteristics of Intelligent Agents– Typical Intelligent Agents – Problem Solving Approach to Typical AI problems.	08
II	PROBLEM SOLVING METHODS: Problem solving Methods – Search Strategies- Uninformed – Informed – Heuristics – Local Search Algorithms and Optimization Problems – Searching with Partial Observations – Constraint Satisfaction Problems – Constraint Propagation – Backtracking Search – Game Playing – Optimal Decisions in Games – Alpha – Beta Pruning – Stochastic Games	08
III	KNOWLEDGE REPRESENTATION: First Order Predicate Logic – Prolog Programming – Unification – Forward Chaining-Backward Chaining – Resolution – Knowledge Representation – Ontological Engineering-Categories and Objects – Events – Mental Events and Mental Objects – Reasoning Systems for Categories – Reasoning with Default Information	08
IV	SOFTWARE AGENTS: Architecture for Intelligent Agents – Agent communication – Negotiation and Bargaining – Argumentation among Agents – Trust and Reputation in Multi-agent systems.	08
V	APPLICATIONS: AI applications – Language Models – Information Retrieval- Information Extraction – Natural Language Processing – Machine Translation – Speech Recognition – Robot – Hardware – Perception – Planning – Moving	08
Text books: 1. S. Russell and P. Norvig, "Artificial Intelligence: A Modern Approach", Prentice Hall, Third Edition, 2009. 2. I. Bratko, "Prolog: Programming for Artificial Intelligence", Fourth edition, Addison-Wesley Educational Publishers Inc., 2011. 3. M. Tim Jones, —Artificial Intelligence: A Systems Approach(Computer Science)I, Jones and Bartlett Publishers, Inc.First Edition, 2008 4. Nils J. Nilsson, —The Quest for Artificial IntelligenceI, Cambridge University Press, 2009. 5. William F. Clocksin and Christopher S. Mellish,I Programming in Prolog: Using the ISO StandardI, Fifth Edition, Springer, 2003. 6. Gerhard Weiss, —Multi Agent SystemsI, Second Edition, MIT Press, 2013. 7. David L. Poole and Alan K. Mackworth, —Artificial Intelligence: Foundations of Computational AgentsI, Cambridge University Press, 2010.		

Uptu Engineering Computer Science Syllabus

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Computer Concepts and Programming in C D. S. Yadav, Rajiv Khanna, 2008 **Theory of Automata & Formal Languages** A. M. Natarajan, 2005 This Book Is Designed To Meet The Syllabus Of U P Technical University This Book Also Meets The Requirements Of Students Preparing For Various Competitive Examinations Professionals And Research Workers Can Also Use This Book As A Ready Reference It Covers The Topics Like Finite State Automata Pushdown Automata Turing Machines Undecidability And Chomsky Hierarchy Salient Features Simple And Clear Presentation Includes More Than 300 Solved Problems Comprehensive Introduction To Each Topic Well Explained Theory With Constructive Examples *IT Infrastructure and Management (For the GBTU and MMTU)* , Discrete Structures Satinder Bal Gupta, C. P. Gandhi, 2010-05 This book has been written according to the latest syllabi for B Tech M C A courses of Punjab Technical University and other technical universities of India The previous years university questions papers have been solved systematically and logically in each chapter It is intended to help students better understand the concepts and ideas of discrete structures **Introduction to Automata Theory, Formal Languages and Computation** Shyamalendu Kandar, 2013 Formal languages and automata theory is the study of abstract machines and how these can be used for solving problems The book has a simple and exhaustive approach to topics like automata theory formal languages and theory of computation These descriptions are followed by numerous relevant examples related to the topic A brief introductory chapter on compilers explaining its relation to theory of computation is also given *Computer Based Numerical & Statistical Techniques* Goyal, 2005 *Microwave Engineering* M. L. Sisodia, 2005 This Book Has Been Written Strictly According To The Latest Syllabus Prescribed By U P Technical University Lucknow For Undergraduate Students Of Electronics Communication Engineering Its First Chapter Discusses The Microwave Propagation Through Waveguides The Second Chapter Describes Microwave Cavity Resonators Third Chapter Deals With Microwave Components Chapter Four Explains Various Microwave Measurements The Chapter Five Discusses Limitations Of Conventional Active Devices At Microwave Frequencies And Introduces Various Microwave Tubes And Their Classification Chapter Six Is Divided Into Three 6A 6B 6C And Discusses O Type 6A 6B And M Type 6C Tubes Microwave Semiconductor Devices Have Been Discussed In Chapters Seven To Nine Microwaves And Their Applications Are Described In An Introduction Authors Have Taken Special Care In Keeping A Balance Between Mathematical And Physical Approach Large Number Of Illustrative Diagrams Have Been Incorporated A Good Number Of Solved Problems Picture From University Examination Papers Have Been Included For Reinforcing The Key Concepts **Engineering Mathematics - III** , **Electro Magnetic Field Theory** , Exploring Enterprise Service Bus in the Service-Oriented Architecture Paradigm Bhadoria, Robin Singh, Chaudhari, Narendra, Tomar, Geetam Singh, Singh, Shailendra, 2017-02-14 Web browsing would not be what it is today without the use of Service Oriented Architecture SOA Although much has been written about SOA methodology this emerging platform is continuously under

development Exploring Enterprise Service Bus in the Service Oriented Architecture Paradigm is a detailed reference source that examines current aspects and research methodologies that enable enterprise service bus to unify and connect services efficiently on a common platform Featuring relevant topics such as SOA reference architecture grid computing applications complex event computing and java business integration this is an ideal resource for all practitioners academicians graduate students and researchers interested in the discoveries on the relationship that Service Oriented architecture and enterprise service bus share **The Human Element of Big Data** Geetam S. Tomar,Narendra S. Chaudhari,Robin Singh

Bhadoria,Ganesh Chandra Deka,2016-10-26 The proposed book talks about the participation of human in Big Data How human as a component of system can help in making the decision process easier and vibrant It studies the basic build structure for big data and also includes advanced research topics In the field of Biological sciences it comprises genomic and proteomic data also The book swaps traditional data management techniques with more robust and vibrant methodologies that focus on current requirement and demand through human computer interfacing in order to cope up with present business demand Overall the book is divided in to five parts where each part contains 4 5 chapters on versatile domain with human side of Big Data India Today ,2007 Krishna's Environment and Ecology; for B. Tech Ist and IInd semester students of All Engineering Colleges affiliated to U.P. Technical University, Lucknow; As per revised syllabus, w.e.f. 2008-09 ,

Science Reporter ,2005 **BASIC COMPUTER ENGINEERING** Sanjay Silakari,Rajesh K. Shukla,2011-02-01
Market_Desc Primary Market Undergraduate I Year Engineering student of RGPV Bhopal More than 1 lac intake Course Basic Computer EngineeringCourse Code B E 205Secondary Market Undergraduate first year students of various universities such as UPTU ECS 101 ECS 201 Computer Concepts and Programming in C UTU Fundamentals of Computer database management systems data structures algorithms and C without entering into the specifics of programming languages and complex technologies Makes liberal use of screenshots to show how the screen would look like after processing the command Has increased utility owing to the presence of a large number of examples and illustrations Covers programming assignments and experimental portions under specific chapters to take into account the practical nature of the course Contains appendices that introduce readers to emerging areas of research such as neural networks and fuzzy logic Provides model question papers for practicing questions based on the examination pattern Excellent pedagogy having 160 Figures 70 Tables 40 Programs with output 70 Syntaxes and explanatory examples 220 Objective questions 170 Review questions 50 Programming assignments About The Book This book helps in familiarizing students with the basic organization of the computer and then moving on to study of the operating systems such as Windows DOS and UNIX database management systems data structures algorithms and C without entering into the specifics of programming languages and complex technologies It provides an insight into the basics of computers as delineated by the syllabi of RGPV and various reputed Indian universities This book is suitable for self study because of clear explanation of the topics uniformity in presentation

illustration of concepts through numerous examples and chapters are laced with various screenshots to give an idea as to how the screen would look like while performing that particular step **A CURRICULUM IN COMPUTER SCIENCE AND ENGINEERING.** Institute of Electrical and Electronics Engineers. Computer Society,1977 **UGC NET unit-6**
COMPUTER SCIENCE Software Engineering book with 600 question answer as per updated syllabus DIWAKAR EDUCATION HUB ,2022-08-30 UGC NET Computer Science unit 6 **Curriculum** Faculty of Technical Sciences,1993
Computer Science and Engineering—Theory and Applications Mauricio A. Sanchez,Leocundo Aguilar,Manuel Castañón-Puga,Antonio Rodríguez-Díaz,2018-02-05 This book presents a collection of research findings and proposals on computer science and computer engineering introducing readers to essential concepts theories and applications It also shares perspectives on how cutting edge and established methodologies and techniques can be used to obtain new and interesting results Each chapter focuses on a specific aspect of computer science or computer engineering such as software engineering complex systems computational intelligence embedded systems and systems engineering As such the book will bring students and professionals alike up to date on key advances in these areas Computer Science 1-840 Clark County School District (Nev.). Department of Curriculum and Instructional Services,1988

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212 beryllium 8 and a positron are produced by the

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