3rd Semester MDC Syllabus Distribution-2024-25

1. MDC-03T: Governance and Public Policy
Credits 03 (Full Marks-50)

Course contents: 1. Governance: Meaning, scope and significance of the subject, public and private administration, brief evolution and major approaches, and comparative approaches to public administration. 2. Administrative theories: the classical theory, scientific management, the human - relation theory, and rational decision-making. 3. Understanding public policy: concept and theories, relevance of policy making in public administration and process of policy formulation and implementation and evaluation.	**DEPARTMENT OF POLITICAL SCIENCE**

2. MDC-03T: Basics of Artificial Intelligence (AI) Credits 03 (Full Marks-50)

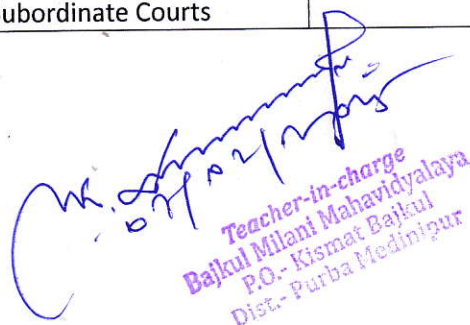|	
Course contents: **Unit 1: Introduction to Artificial Intelligence** (5 Lectures) 1. Definition and scope of AI 2. Historical overview and key milestones 3. Differentiating AI from human intelligence **Unit 2: AI Subfields and Technologies** (15 Lectures) 1. Overview of Machine learning: Traditional programming vs Machine Learning, 2. Types of learning, Classification, Clustering, Learning Bias, Concept of Training & Loss function 3. Overview of neural networks: MCP, Activation functions, Block diagram of CNN, Basics of Deep learning 4. Overview of Natural language processing (NLP) and computer vision. **Unit 3: Applications of AI** (12 Lectures) 1. AI in healthcare: Diagnosis, treatment, and medical imaging 2. AI in finance: Fraud detection, algorithmic trading, and risk assessment 3. AI in transportation: Autonomous vehicles and traffic optimization 4. AI in customer service and chatbots 5. AI in education: Personalized learning tools and intelligent tutoring systems 6. AI in research: Tools and Techniques **Unit 4: Ethical and Social Implications of AI** (8 Lectures) 1. Bias and fairness in AI systems 2. Privacy and data protection concerns 3. Impact of AI on employment and the workforce 4. AI and social inequality **Unit 5: Other Important Issues** (5 Lectures) 1. Ethical guidelines and responsible AI practices 2. AI and Innovation 3. Emerging trends and future directions in AI 4. AI and creativity: Generative models and artistic applications	**DEPARTMENT OF COMPUTER SCIENCE**

MDC-03T: Entrepreneurship Development
Credits 03 (Full Marks-50)

Course contents: (Total lecture hours: 45)	DEPARTMENT OF AUTOMOBILE
Unit-I: Entrepreneurship development i. Definition, role of small scale industries in the national economy. ii. Characteristics and types of small scale industries; demand-based and resources- based ancillaries. iii. Government policy(s) for small scale industries; stages in starting a small scale industry. **Unit-II: Project identification, planning and control** i. Assessment of viability, formulation, evaluation, financing. ii. Field-study, preparation of project report, demand analysis, material balance and output methods, benefit cost analysis. iii. The financial functions, cost of capital approach in project planning and control iv. Laws concerning entrepreneurship. v. Role of various national and state agencies which render assistance to small scale industries	
Unit-III: Rural resource mobilization i. Basic objectives ii. Case study of eco-village, eco-tourism and agro-tourism. iii. Micro financing with special reference to self-help groups. iv. Rural entrepreneurship development through traditional technologies.	DEPARTMENT OF NSS
Unit-IV: Funding i. Sources of Finance ii. Venture capital- Venture capital process iii. Business angles- Commercial banks iv. Government Grants and Schemes.	DEPARTMENT OF ECONOMICS

MDC-03T: Library, Information and Media Sciences Credits 03 (Full Marks-50)

Course contents:	DEPARTMENT OF LIBRARY
Unit-I: Historical Background – Constituent Assembly of India – Philosophical Foundations Of The Indian Constitution – Preamble – Fundamental Rights – Directive Principles Of State Policy – Fundamental Duties – Citizenship – Constitutional Remedies For Citizens. **Unit-II:** Union Government – Structures of the Union Government and Functions – President – Vice President – Prime Minister – Cabinet – Parliament – Lok Sabha – Composition and Powers - Rajya Sabha – Composition and Powers - Supreme Court of India – Judicial Review **Unit-III:** State Government – Structure and Functions – Governor – Chief Minister – Cabinet – State Legislature – Judicial System in States – High Courts and other Subordinate Courts	

Teacher-in-charge
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