

**SYLLABUS OF CC- USE OF AI IN COST ACCOUNTING**

**(S.Y.B.COM. SEM.-3 A.Y.2025-26)**

	Resource Person:
	Dr. Mayur K. Joshi
	M.Com., M.Phil., Ph.D., GSET
	Experience: 17 years
<b>Course Objective:</b>	<ol style="list-style-type: none"> <li>1. Gain a solid foundation in cost accounting principles, key costing methods, and the role of AI in modern accounting practices.</li> <li>2. Learn how AI enhances different costing techniques, such as job costing, process costing through automation and data analysis.</li> <li>3. Understand how AI-driven tools optimize cost allocation across departments, products, and services, reducing manual effort and improving accuracy.</li> <li>4. Develop the ability to automate variance calculations, analyze cost deviations, and generate actionable insights using AI-driven analytics.</li> <li>5. Examine case studies showcasing successful AI implementation in cost accounting across various industries.</li> </ol>
<b>Expected Outcome:</b>	Student will understand how to use AI in Cost Accounting.
<b>Evaluation Method:</b>	MCQ
<b>COURSE CONTENT</b>	
<b>Unit-1:</b>	<b>Introduction to Cost Accounting &amp; AI</b> Overview of Cost Accounting: Definitions, importance, and types of costs (fixed, variable, semi-variable). Key cost accounting methods (job costing, process costing etc.).
	Introduction to AI: Introduction to AI: Basics of AI and AI tools in finance, Understanding how AI can be integrated into cost accounting processes.
<b>Unit-2:</b>	<b>AI and various costing methods:</b> Use of AI in various methods of Costing

	Practical examples of using AI in various methods of Costing
<b>Unit-3:</b>	<b>Cost Allocation and Distribution Using AI</b>
	How AI can automate cost allocation across departments, products, or services.
	Practical examples of using AI for cost distribution.
<b>Unit-4:</b>	<b>Variance Analysis Using AI</b>
	Introduction to variance analysis: Analyzing materials and labor variances.
	Automating variance calculation and reporting with AI.
	Using AI to interpret variance reports and generate actionable insights.
<b>Unit – 5</b>	<b>Case Studies</b>
	Real-World Case Studies: Successful application of AI in Cost Accounting across industries.
<b>Reference Books:</b>	<ol style="list-style-type: none"> <li>1. Artificial Intelligence in Accounting and Auditing towards New Paradigms, Volume – 4</li> <li>2. Cost Accounting – Jawaharlal</li> </ol>