

**Department of Computer Science**  
**Course Outcomes & CO-PO-PSO Mapping**  
**Course Name: Software Engineering (L-3, T-1, P-0)**

<b>CO No.</b>	<b>Course Outcome</b>	<b>Cognitive Level</b>
CO1	Develop a comprehensive understanding of software engineering principles, SDLC, methodologies, and best practices.	L2
CO2	To gain knowledge of software project management principles, methodologies, and tools	L3
CO3	Acquire skills in software design, coding and testing techniques and quality assurance practices	L4
CO4	Learn about project planning, estimation, scheduling, risk management, and resource allocation.	L3

  
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## CO-PO-PSO MAPPING

Course Name: Software Engineering (L-3, T-1, P-0)

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	Avg
CO1	2	2	2	-	-	-	3	-	-	-	-	-	-	2	-	
CO2	-	2	3	2	-	2	-	-	-	-	-	-	-	1	-	
CO3	-	3	-	-	-	-	-	-	2	2	2	2	-	2	2	
CO4	-	2	1	-	-	-	-	1	-	-	2	-	-	3	-	
Average	2	2.25	2	2		2	3	1	2	2	2	2		2.25	2	2.03

  
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### Program Outcomes and Justification:

CO No.	PO/PSO	CL	Justification
CO1	<p><b>PO1:</b> Understand the fundamental concepts of computers, software hardware and peripheral devices and evolution of computer technologies.</p> <p><b>PO2:</b> Understand to design, analyse and develop solutions and evaluate system components to meet specific need for local, regional and global and environmental systems</p> <p><b>PO3:</b> Contribute to society in comprehending computing activities by writing reports, designing documentation, making effective presentation, and understand instructions.</p> <p><b>PO7:</b> Well, equipped with thorough knowledge of various software.</p> <p><b>PSO2:</b> Apply standard software engineering practices and strategies in software project development using open-source programming environment to deliver a quality of product for business success.</p>	2	Moderately mapped
		2	Moderately mapped
		2	Moderately mapped
		3	Highly mapped
		2	Moderately mapped
CO2	<p><b>PO1:</b> Understand the fundamental concepts of computers, software hardware and peripheral devices and evolution of computer technologies.</p> <p><b>PO2:</b> Understand to design, analyse and develop solutions and evaluate system components to meet specific need for local, regional and global and environmental systems</p> <p><b>PO3:</b> Contribute to society in comprehending computing activities by writing reports, designing documentation, making effective presentation, and understand instructions.</p> <p><b>PO4:</b> Able to develop and implement ideas in multi- disciplinary environments using computing and management skills.</p> <p><b>PSO2:</b> Apply standard software engineering practices and strategies in software project development using open-source programming environment to deliver a quality of product for business success.</p>	2	Moderately mapped
		3	Highly mapped
		2	Moderately mapped
		2	Moderately mapped
		1	Slightly mapped

  
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<b>CO3</b>	<b>PO2:</b> Understand to design, analyse and develop solutions and evaluate system components to meet specific need for local, regional and global and environmental systems	3	Highly mapped
	<b>PO9:</b> Apply domain knowledge and expertise for enhancing educational pursuits and research capability.	2	Moderately mapped
	<b>PO10:</b> Understand the professional, ethical, legal, security, and social issues and responsibilities in computing profession.	2	Moderately mapped
	<b>PO11:</b> Apply standard software engineering practices and strategies in software project development using open-source programming environment to deliver a quality of product for business success.	2	Moderately mapped
	<b>PO12:</b> Work in the IT sector as system engineer, software tester, junior programmer, web developer, system administrator, software developer etc.		
	<b>PSO2:</b> Apply standard software engineering practices and strategies in software project development using open-source programming environment to deliver a quality of product for business success.	2	Moderately mapped
	<b>PSO3:</b> Student will able to know various issues, latest trends in technology development and thereby innovate new ideas and solutions to existing problems.	2	Moderately mapped
<b>CO4</b>	<b>PO2:</b> Understand to design, analyse and develop solutions and evaluate system components to meet specific need for local, regional and global and environmental systems	2	Moderately mapped
	<b>PO3:</b> Contribute to society in comprehending computing activities by writing reports, designing documentation, making effective presentation, and understand instructions.	1	Slightly mapped
	<b>PO8:</b> Use the knowledge of advance technologies for developing customized solutions via startups and entrepreneurship.	1	Slightly mapped
	<b>PO11:</b> Apply standard software engineering practices and strategies in software project development using open-source programming environment to deliver a quality of product for business success.	2	Moderately mapped

  
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	<b>PSO2:</b> Apply standard software engineering practices and strategies in software project development using open-source programming environment to deliver a quality of product for business success.	<b>3</b>	Highly mapped
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**Department of Commerce**  
**Course Outcomes & CO-PO-PSO Mapping**

**Course Name: Cost Accounting (L-6, T-2, P-0)**

<b>CO No.</b>	<b>Course Outcome</b>	<b>Cognitive Level</b>
CO1	Understand the fundamental concepts of cost accounting, including cost classification, cost behaviour, and cost allocation methods.	L2
CO2	Apply various costing techniques such as job costing, process costing, and activity-based costing to determine product or service costs accurately.	L3
CO3	Analyse costing data to make informed decisions regarding pricing, product mix, and resource allocation within an organization.	L4
CO4	Utilize cost accounting information for effective planning and budgeting, including cost estimation and forecasting for future periods.	L3

  
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## CO-PO-PSO MAPPING

Course Name: Cost Accounting (L-6, T-2, P-0)

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	Avg
CO1	3	-	-	-	-	-	-	-	-	2	-	2	-	2	-	
CO2	-	2	3	1	2	-	-	3	-	-	-	-	2	-	-	
CO3	-	3	2	-	3	-	-	-	-	1	2	-	3	3	-	
CO4	1	-	1	2	3	-	-	2	-	-	-	3	3	-	3	
Average	2	2.5	2	1.5	2.6	-	-	2.5	-	1.5	2	2.5	2.6	2.5	3	2.26

  
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### Program Outcomes and Justification:

CO No.	PO/PSO	CL	Justification
CO1	<b>PO1:</b> To have a solid understanding of various business concepts, including marketing, finance, accounting, economics, and management.	3	Highly mapped
	<b>PO10:</b> To serve as a foundation for various career paths such as accounting, finance, marketing, human resources, and management.	2	Moderately mapped
	<b>PO12:</b> To provide students with a comprehensive understanding of business principles, practical skills, and a mindset that prepares them for success in the dynamic world of commerce.	2	Moderately mapped
	PSO 2. To have a solid foundation in Marketing, Accounting and Financial management skills.	2	Moderately mapped

  
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<b>CO2</b>	<b>PO2:</b> To develop strong analytical skills through courses in accounting, statistics, and economics, which enable them to analyse financial data, market trends, and business strategies.	<b>2</b>	Slightly mapped
	<b>PO3:</b> To gain financial literacy, understanding financial statements, budgeting, financial analysis, and investment principles.	<b>3</b>	Highly mapped
	<b>PO4:</b> To enhance communication skills, including business communication, report writing, and presentation skills.	<b>1</b>	Slightly mapped
	<b>PO5:</b> To identify problems within a business context and apply analytical and critical thinking skills to develop effective solutions.	<b>2</b>	Moderately mapped
	<b>PO8:</b> To make proficient in use of technology in business and computer applications relevant to business operations.	<b>3</b>	Highly mapped
	<b>PSO1:</b> To analyse data and make informed business decisions.	<b>2</b>	Moderately mapped
<b>CO3</b>	<b>PO2:</b> To develop strong analytical skills through courses in accounting, statistics, and economics, which enable them to analyse financial data, market trends, and business strategies.	<b>3</b>	Highly mapped
	<b>PO3:</b> To gain financial literacy, understanding financial statements, budgeting, financial analysis, and investment principles.	<b>2</b>	Moderately mapped
	<b>PO5:</b> To identify problems within a business context and apply analytical and critical thinking skills to develop effective solutions.	<b>3</b>	Highly mapped
	<b>PO10:</b> To serve as a foundation for various career paths such as accounting, finance, marketing, human resources, and management.	<b>1</b>	Slightly mapped
	<b>PO11:</b> To prepare students for further studies like pursuing a Master of Commerce (M. Com, MBA, or specialized certifications like Chartered Accountancy (CA), Certified Public Accountant (CPA), or Chartered Financial Analyst (CFA).	<b>2</b>	Moderately mapped

  
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	<b>PSO1:</b> To analyse data and make informed business decisions.	<b>3</b>	Slightly mapped
	<b>PSO 2.:</b> To have a solid foundation in Marketing, Accounting and Financial management skills.	<b>3</b>	Slightly mapped
<b>CO4</b>	<b>PO1:</b> To have a solid understanding of various business concepts, including marketing, finance, accounting, economics, and management.	<b>1</b>	Slightly mapped
	<b>PO3:</b> To gain financial literacy, understanding financial statements, budgeting, financial analysis, and investment principles.	<b>1</b>	Slightly mapped
	<b>PO4:</b> To enhance communication skills, including business communication, report writing, and presentation skills.	<b>2</b>	Moderately mapped
	<b>PO5:</b> To identify problems within a business context and apply analytical and critical thinking skills to develop effective solutions.	<b>3</b>	Highly mapped
	<b>PO8:</b> To make proficient in use of technology in business and computer applications relevant to business operations.	<b>2</b>	Moderately mapped
	<b>PO12:</b> To provide students with a comprehensive understanding of business principles, practical skills, and a mindset that prepares them for success in the dynamic world of commerce.	<b>3</b>	Highly mapped
	<b>PSO1:</b> To analyse data and make informed business decisions.	<b>3</b>	Highly mapped
	<b>PSO 3:</b> To develop students' critical thinking and problem-solving abilities, enabling them to analyse complex business problems, identify viable solutions, and make sound decisions.	<b>3</b>	Highly mapped

  
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