

Approved by: AICTE, New Delhi | Affiliated to CSVTU, Bhilai

$\label{eq:Department} Department of Mechanical Engineering $$ Course Outcomes of all courses of B Tech 8th semester MECHATRONICS $$$

On successful completion of this course, students should be able to

Course	COURSE OUTCOMES	
C411- Automated Manufacturing–II	C 411.1	Define the basic elements of automation, advance automation function, and levels of automation. (Level-1)
	C 411.2	Classify NC/CNC systems and part programming. (Level-2)
	C 411.3	Describe the concept of Group Technology and part classification and coding. (Level-2)
	C 411.4	Recognize Flexible Manufacturing Systems and its elements. (Level-2)
C ⁷	C 411.5	understand computer aided production management, describe the role and function of various department and importance of computer integrated manufacturing.(Level-2)



Run by: Shivnath Shikshan & Seva Samiti

Shivaji Nagar, Balod Road, Durg, Chhattisgarh (India) 491 001

Phone: +91 - 9826937473, 7697477777

E-mail: info@csitdurg.in | Website: www.csitdurg.in



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Course	COURSE OUTCOMES		
C412- Production and Product Management	C412.1	Describe the functions of production management and costing and cost analysis. (Level 1,2,4)	
	C412.2	Describe the Analyze the different methods of sales forecasting. (Level 2,5)	
	C412.3	Describe and Analyze the methods of Production Planning and Control and also distinguish the material handling methods. (Level 3,4)	
	C412.4	Describe and Analyze the process of store keeping and inventory control. (Level 2)	
	C412.5	Describe and Analyze the methods of quality control. (Level 6)	

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Course	COURSE OUTCOMES	
413- Industrial Automation	C413.1	Understand the fundamentals of Process Control and Control System Evaluation Level: Understand (2)
	C413.2	Describe Data Acquisition Systems (DAS) and their components Level: Understand (2)
	C413.3	Explain Controller Principles and Modes Level: Analyze (4)
	C413.4	Discuss Analog Controllers and Programmable Logic Controllers (PLC) Level: Evaluate (5)
	C413.5	Understand Distributed Control Systems (DCS) Level: Understand (2)



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Course	COURSE OUTCOMES	
C414- Flexible Manufacturing System (Lab)	C414.1	Demonstrate knowledge of interfacing and automation techniques. Level: Understand (2)
	C414.2	Explain the concepts of automation combined with advanced manufacturing. Level: Understand (2)
	C414.3	Analyze sequence planning, process planning, and shop floor layout generation. Level: Analyze (4)
	C414.4	Evaluate offline/online sequence execution techniques. Level: Evaluate (5)
	C414.5	Apply data acquisition and process techniques effectively. Level: Apply (3)

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		COURSE OUTCOMES	
Co	ourse		
C415 Mechatronics Systems	Design (Lab)	C415.1	Demonstrate understanding of mechanical linear translation systems. Level: Understand (2)
		C415.2	Explain the function and application of special purpose actuators in pneumatics. Level: Understand (2)
		C415.3	Analyze various types of sensors and their application areas. Level: Analyze (4)
		C415.4	Evaluate the construction and usage of various types of conveyors in automation. Level: Evaluate (5)
C41		C415.5	Design and simulate palletizing systems in conveyor systems for high-speed production. Level: Create (6)



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Course	COURSE OUTCOMES	
(i	C416.1	Demonstrate proficiency in using relevant software tools for data analysis. Level: 3
hase-I	C416.2	Analyze and interpret experimental results to draw meaningful conclusions. Level: 4
C416- Project (Phase–II	C416.3	Critically evaluate existing research literature related to the project topic. Level: 5
416- Pr	C416.4	Design and implement a solution to address a specific problem identified in the project. Level: 6
Ď	C416.5	Communicate project findings effectively through written reports and oral presentations. Level: 5

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