RV Educational Institutions PRV College of Engineering Autonomous Approved by AICTE,

Institution Affiliated

to Visvesvaraya

Technological University, Belagavi

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Approved by AICTE, New Delhi, Accredited By NAAC, Bengaluru And NBA, New Delhi

 22^{nd}

Academic year 2022-2023 (C

Maximum Marks

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DEPARTMENT OF MECHANICAL ENGINEERING CIE II

ourse Code ourse Title		22ES24E	Duration			Mii
		Fundamentals of Mechanical Engineering Sem: II				
nswe	er all the Qu	uestions.				
1. No.		Questions			M	BT
.a	Highlighting the features, explain the various types of industrial automation				7	L2
ь	Explain the industrial applications of Robots				3	L3

August 2023

		1			
Ь	Explain the industrial applications of Robots				
2	What are the basic configurations of an industrial robot? Explain them schematically.				
3. a	Discuss the operations involved in the sequential control of a microprocessor- based washing machine.				
ь	Plot the pictorial representation of Mechatronics by defining the term "Mechatronics".				
4	Using schematic diagram explain the elements of computer numerical control systems				
5	Mention the demerits of the following energy sources. a. Nuclear Energy b. Hydropower c. Fossil fuels	10	L2		

BT-Blooms Taxonomy, CO-Course Outcomes, M-Marks **Particulars** COL CO2 CO3 CO₄ Marks LI L3 L4 L5 00 00 Distribution Max Marks 10 40 00 30 20 00 00