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SNS College of Technology, Coimbatore-35.
(An Autonomous Institution)
B.E/B.Tech- Internal Assessment -II
Academic Year 2023-2024(Odd Semester)
Seventh Semester



Electronics & Communication Engineering
19ECO401 – Advanced Sensor Technology

Time: 1^{1/2} Hours

Maximum Marks: 50

Answer All Questions

PART - A (5x 2 = 10 Marks)

			CO	Blooms
1.		What is noise? Give two examples of noise.	CO2	Rem
2.		Distinguish between Stepper motor and DC motor.	CO2	Ana
3.		How Silicon is prepared?	CO3	Rem
4.		Divide the non exhaustive thermoplastics.	CO3	Ana
5.		Why Borosilicate glass is being used in Telescopes?	CO3	Rem
PART – B (2*13=26 Marks and 1*14=14 Marks)				
			CO	Blooms
6.	(a)	Explain the Sensor interfacing and signal conditioning with suitable examples.	13 CO2	Und
		(or)		
	(b)	Apply the interfacing technique to connect the stepper motor with 8051 Microcontroller.	13 CO2	App
7.	(a)	Examine the sensor materials and their characteristics with suitable examples.	13 CO3	Ana
		(or)		
	(b)	Build the vacuum chamber for sputtering process and explain the process flow.	13 CO3	App
8.	(a)	Apply the Arduino code to control the DC motor rotation.	14 CO2	App
		(or)		
	(b)	Construct the Chemical Vapour Deposition (CVD) to forming the optical windows and fabrication of semiconductor sensors.	14 CO3	App

CO-Course Outcome, Rem-Remembering, Und-Understanding, App-Appling, Ana-Analyzing, Eva-Evaluating, Cre-Creating

Course Coordinator

Teaching Coordinator

HoD/DEAN