Vivekananda College of Engineering & Technology,Puttur

[A Unit of Vivekananda Vidyavardhaka Sangha Puttur ®]

Affiliated to VTU, Belagavi & Approved by AICTE New Delhi

CRM08	Rev 1.10	ECE	26/05/21

CONTINUOUS INTERNAL EVALUATION– 1

Dept: Electronics and Communication	Sem / Div: 6th Sem	Sub: Sensors and Signal Conditioning	S Code:18EC652
Date: 26-05-2021	Time: 9:30-11:00 AM	Max Marks: 40	Open Elective: Y

Note: Answer any 2 full questions, choosing one full question from each part.

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QN		Questions	Marks	RBT	COs
		PART A			
1	a	Explain general concepts and terminology showing the function and data flow in a measurement and control system along with advantages of electronic measurement system.	8	L1	CO1
	b	Classify sensors according to different criteria.	4	L1	CO1
	c	Classify Primary sensors according to the measurand and explain Temperature sensor.	8	L1	CO1
		OR			
2	a	Explain primary pressure sensor with related equations.	6	L2	CO2
	b	Explain micro-matching technology and magnetoresistors in microsensor technology.	8	L2	CO2
	c	Explain Light Dependent Resistors.	6	L2	CO2
		PART B			
3	a	Explain different arrangements for capacitive sensors with equations.	8	L1	CO1
	b	Explain variable reluctance sensors with different configurations.	8	L1	CO1
	c	Explain LVDTs with diagram and equations.	4	L2	CO2
		OR			
4	a	Briefly explain Electromagnetic Sensor with Faraday's Law along with Hall effect sensors.	8	L2	CO2
	b	Explain Sensitivity and Linearity with ac bridge and related equations.	8	L1	CO1
	c	Explain SQUIDs with diagram.	4	L2	CO2

Prepared by: Dr. Mahantesh R.Choudhari   HOD