Jan Nov—Dec 2026
(B. Tech) Program: Electronics & Telecommunication Scheme:III
Supplementary ExamRegular Examination:TY Semester: V
Course Code: EXDLC5042 and Course Name: Sensor Technology

Date of Exam: 28/11/25 02|12|16.   Duration: 02.5 Hours   Max. Marks: 60

Instructions:
(1)All questions are compulsory.
(2)Draw neat diagrams wherever applicable.
(3)Assume suitable data, if necessary.

Q. No.	Question	Max. Marks	CO	BT level
Q 1	**Solve any two questions out of three: (05 marks each)**	10		
a)	Write different applications of sensors.		1	U
b)	Explain concepts of piconet and Scatternet of Bluetooth technology.		4	U
c)	Discuss briefly block diagram of Data Logger.		5	U
Q 2	**Solve any two questions out of three: (05 marks each)**	10		
a)	Explain Smart sensors with examples.		1	U
b)	Discuss NFC standards and technical characteristics.		4	U
c)	Discuss multi-Channel Data Acquisition System.		5	U
Q.3	**Solve any two questions out of three. (10 marks each)**	20		
a)	Write Short Note on: Pressure Sensor, Level Sensor.		2	U
b)	What is MEMS sensing? What are the types of MEMS sensing and explain them.		3	U
c)	Explain Sensors in Ultrasound Imaging.		6	U
Q.4	**Solve any two questions out of three. (10 marks each)**	20		
a)	Write Short Note on: Proximity Sensor, IR Sensor.		2	U
b)	What is MEMS device? Explain DMD with operation and array.		3	U
c)	Explain Overview of Onboard Monitoring system prototype.		6	U

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Seat No.: