



# MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

## SEVENTH SEMESTER B. TECH (ELECTRONICS AND INSTRUMENTATION)

PROCTORED ONLINE MAKE-UP EXAMINATION - Feb/March. 2022

SUBJECT: Virtual Instrumentation (ICE 4306)

TIME: 2.20-3:35 PM

DATE: 01/03/2022

MAX MARKS 20

**Note: Answer All questions**

1	A	Describe the components of a virtual instrument in detail.	4M
	B	Briefly explain any three methods of signal conditioning used in data acquisition and processing.	3M
	C	Differentiate between RS-232 and RS-485.	3M
2	A	Explain any two applications of machine vision.	5M
	B	Describe USB interface bus.	3M
	C	Distinguish between text based programming and graphical programming.	2M