	National Institute of Technology Meghalaya An Institute of National Importance	**CURRICULUM**

Programme	Bachelor of Technology in Electronics and Communication Engineering	Year of Regulation	**2018-19**
Department	Electronics and Communication Engineering	Semester	**IV**

Course Code	Course Name	Credit Structure				Marks Distribution		
		L	T	P	C	CONTINOUS EVALUATION	VIVA	Total
EC 252	**Signals and Systems Lab**	**0**	**1**	**2**	**2**	**70**	**30**	**100**

Course Objectives	To develop the student's ability to analyze signals and systems	Course Outcomes	CO1	Able to analyze the signals using simulation tools
			CO2	Able to apply the signal analysis techniques to real time applications

No.	COs	Mapping with Program Outcomes (POs)												Mapping with PSOs			
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
1	CO1	**3**	**3**	**1**	**-**	**-**	**1**	**-**	**-**	**-**	**-**	**-**	**2**	**3**	**-**	**2**	**-**
2	CO2	**2**	**2**	**2**	**2**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**1**	**-**	**2**	**2**	**-**

SYLLABUS

List of Experiments

- Generation of signals and signal operations
- Convolution and correlation on discrete time signals
- Convolution and correlation on continuous time signals
- Analysis of continuous signals in frequency domain
- Analysis of discrete signals in frequency domain
- Laplace and Z-transforms

Reference Books

1. Oppenheim Alan V., Wilsky Alan S. and Nawab Hamid S., "Signals and Systems, Pearson Educations, 2nd edition, 1997.
2. Prokis John G., "Digital Signal Processing: Principle, Algorithms, and Applications", Pearson Educations, 4th edition, 2007
3. Lathi B. P., "Linear Systems And Signals", Oxford University Press, 2nd edition, 2009.