

**Maulana Abul Kalam Azad University of Technology, West Bengal**  
(Formerly West Bengal University of Technology)  
**Syllabus for B. Tech in Mechanical Engineering**  
(Applicable from the academic session 2018-2019)

<b>Subject Code</b> : PC-ME491	<b>Category:</b> Professional Core courses
<b>Subject Name</b> : Practice of Manufacturing Processes and Systems Laboratory	<b>Semester</b> : fourth
<b>L-T-P</b> : 0-0-3	<b>Credit:</b> 1.5
<b>Pre-Requisites:</b> No prerequisite	

**List of Experiments:**

It should include about 12 experiments as outlined below:

- i) Laboratory modules of pneumatics and/or electro-pneumatics
- ii) Laboratory modules of hydraulics and/or electro-hydraulics
- iii) Study of working of Logic Gates practically
- iv) Simulation of designed pneumatics / hydraulics systems
- v) Measurement of surface roughness
- vi) Measurement of tapered objects using Sine Bar and using balls and rollers, etc.
- vii) Measurement of threads using three wire method
- viii) Measurement of gears
- ix) Measurement of bore diameter using micrometer and gauges
- x) Measurement of angles using bevel vernier protractor
- xi) Statistical process control system to apply to measured dimension of samples
- xii) Practicing different gauges to assess angles, thread, internal and external radius, etc.