

## Syllabus 3rd Year 2024-2025 - 2nd Semester

Test Date:	2/11/2025	Instrumentation Introduction	Level	I	
Syllabus Number	Title	Book Name	Lesson/Lab #	Date	Due Date
1	Math Pre-Test Assessment, Math	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 1, 2	1/21/2025	1/26/2025
2	Science Pre-Test Assessment, Science	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 3, 4	1/23/2025	1/26/2025
3	Electrical Theory Pre-Test Assessment, Electrical Theory	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 5, 6	1/28/2025	2/2/2025
4	Meters and Measurements Pre-Test Assessment, Meters and Measurements	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 7, 8	1/30/2025	2/2/2025
5	Instrumentation Vocabulary Pre-Test Assessment, Instrumentation Vocabulary	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 9, 10	2/4/2025	2/9/2025
6	Process and Instrumentation Diagram Interpretation Pre-Test Assessment, Process and Instrumentation Diagram Interpretation	Test Instruments and Applications (S571), Applied Science of Instrumentation (S600)	Lesson 11, 12	2/6/2025	2/16/2025
Test Date:	3/25/2025	Instrumentation Introduction	Level	II	
Syllabus Number	Title	Book Name	Lesson/Lab #	Date	Due Date
7	Review	Applied Science of Instrumentation (S600)	Lesson 1	2/13/2025	2/16/2025
8	Introduction to Instrumentation	Applied Science of Instrumentation (S600)	Lesson 2	2/18/2025	2/23/2025
9	Fundamentals of Process and Control Systems	Applied Science of Instrumentation (S600)	Lesson 3	2/20/2025	2/23/2025
10	Instrumentation Symbols and Diagrams	Applied Science of Instrumentation (S600)	Lesson 4	2/25/2025	3/2/2025
11	Calibration Procedure and Documentation	Applied Science of Instrumentation (S600)	Lesson 5	2/27/2025	2/27/2025
12	Principles of Pressure	Applied Science of Instrumentation (S600)	Lesson 6	3/4/2025	3/9/2025
13	Principles of Level	Applied Science of Instrumentation (S600)	Lesson 7	3/6/2025	3/9/2025
14	Principles of Flow	Applied Science of Instrumentation (S600)	Lesson 8	3/11/2025	3/16/2025
15	Principles of Temperature	Applied Science of Instrumentation (S600)	Lesson 9	3/13/2025	3/16/2025
16	Principles of Smart Instrumentation and Communication	Applied Science of Instrumentation (S600)	Lesson 10	3/18/2025	3/23/2025
17	Control Valves, Actuators, and Accessories	Applied Science of Instrumentation (S600)	Lesson 11	3/20/2025	3/23/2025
Test Date:	4/15/2025	Instrument Introduction	Level	III	
Syllabus Number	Title	Book Name	Lesson/Lab #	Date	Due Date
18	Review	Applied Science of Instrumentation (S600)	Lesson 1	3/27/2025	3/30/2025
19	Analytical Measurement	Applied Science of Instrumentation (S600)	Lesson 2	4/1/2025	3/30/2025
20	Process Controllers	Applied Science of Instrumentation (S600)	Lesson 3	4/3/2025	4/6/2025
21	Fundamentals of Control	Applied Science of Instrumentation (S600)	Lesson 4	4/8/2025	4/6/2025
22	Installation of Control Systems	Applied Science of Instrumentation (S600)	Lesson 5	4/10/2025	4/13/2025
Test Date:	5/20/2025	Motors for Electricians - CML	Level	I	
Syllabus Number	Title	Book Name	Lesson/Lab #	Date	Due Date
23	Magnetism and Induction Review	Motors (S649)	Lesson 1	4/15/2025	4/20/2025
24	Motor Nameplate, AC Alternators	Motors (S649)	Lesson 2, 3	4/17/2025	4/27/2025
25	Three-Phase Motors	Motors (S649)	Lesson 4	4/22/2025	4/27/2025
26	Motor Types	Motors (S649)	Lesson 5	4/24/2025	5/4/2025
27	Single-Phase Motors	Motors (S649)	Lesson 6	4/29/2025	5/4/2025
28	Motor Protection	Motors (S649)	Lesson 7	5/1/2025	5/4/2025
29	DC Motors and Generators	Motors (S649)	Lesson 8	5/6/2025	5/11/2025
30	Starting and Stopping Motors	Motors (S649)	Lesson 9	5/8/2025	5/11/2025
29	Motor Alignment	Motors (S649)	Lesson 10	5/13/2025	5/18/2025
30	Troubleshooting Motors	Motors (S649)	Lesson 11	5/15/2025	5/18/2025
31	Resources, Support - Labs	Motors (S649)	Lesson 12, 13	5/15/2025	5/18/2025
Test Date	6/3/2025	Test Instruments	Level	I	
Syllabus Number	Title	Book Name	Lesson/Lab #	Date	Due Date
33	Voice-Data-Video (VDV) Test Instruments, Power Quality Test Instruments	Test Instruments and Applications (S571)	Lesson 1, 2	5/22/2025	5/25/2025
<b>Memorial Day 5/26/25 - 5/27/25</b>					
34	Medium (and High) Voltage and Insulation Test Instruments	Test Instruments and Applications (S571)	Lesson 3	5/27/2025	5/25/2025
35	Instrumentation and Process Control Test Instruments	Test Instruments and Applications (S571)	Lesson 4	5/29/2025	6/1/2025
36	Special Maintenance Test Instruments, Troubleshooting	Test Instruments and Applications (S571)	Lesson 5, 6	5/29/2025	6/1/2025