

Module Title:	Instrumentation
Language of Instruction:	English
Credits:	5
NFQ Level:	7
Module Delivered In	1 programme(s)
Teaching & Learning Strategies:	This module will be delivered by an EASA approved training organisation
Module Aim:	To give students a general understanding of the aircraft's airframe, systems and instruments.
Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	Describe the sensors and instruments used on an aircraft.
LO2	Describe the operating principles of the aircraft's pitot static systems.
LO3	Describe the operating principles for auto-pilot and navigational instruments.
LO4	Describe the operating principles for flight management instruments
Pre-requisite learning	
Module Recommendations	
<i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>	
No recommendations listed	
Incompatible Modules	
<i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>	
No incompatible modules listed	
Co-requisite Modules	
No Co-requisite modules listed	
Requirements	
<i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>	
No requirements listed	

Module Content & Assessment

Indicative Content				
Sensors and Instruments n/a				
Measurement of Air Data parameters. n/a				
Magnetism: Direct reading compass and Flux Valve. n/a				
Gyroscopic instruments. n/a				
Inertial Navigation and Reference Systems. n/a				
Aeroplane automatic flight control systems. n/a				
Trims, Yaw Damper and Flight Envelope Protection. n/a				
Autothrottle: Automatic Thrust Control System. n/a				
Communications Systems. n/a				
FMS n/a				
Alerting Systems and Proximity Systems. n/a				
Integrated Instruments: Electronic Displays n/a				
Maintenance, Monitoring and Recording systems. n/a				
Digital Circuits and Computers. n/a				
Assessment Breakdown				%
End of Module Formal Examination				100.00%
No Continuous Assessment				
No Project				
No Practical				
End of Module Formal Examination				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	n/a	1,2,3,4	100.00	End-of-Semester

SETU Carlow Campus reserves the right to alter the nature and timings of assessment

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_EEPLT_D	Bachelor of Science in Pilot Studies	6	Mandatory