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	
On successful completion of this module the learner should be able to:	
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   *This is prior learning (or a practical skill) that is recommended before enrolment in this module.*
No recommendations listed
Incompatible Modules   *These are modules which have learning outcomes that are too similar to the learning outcomes of this module.*
No incompatible modules listed
Co-requisite Modules
No Co-requisite modules listed
Requirements   *This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.*
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 Workload

Module Delivered In

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