Module Title:	Introduction to Aviation Meteorology
Language of Instruction:	English

Credits:	5

NFQ Level:	6

Module Delivered In	1 programme(s)

Teaching & Learning Strategies:	This module will be taught by class lectures, class discussions and self-directed learning

Module Aim:	The aim of this module is to provide the students with an understanding of meteorology and its effects on daily aviation operations.

Learning Outcomes	
On successful completion of this module the learner should be able to:	
LO1	Understand the significance of weather on daily operations
LO2	Discuss the formation of clouds
LO3	Analyse surface observations including actual weather conditions and terminal area forecasts
LO4	Explain the importance of upper air observations through the use of the various wind charts
LO5	Describe a station model

Pre-requisite learning		
Module Recommendations *This is prior learning (or a practical skill) that is recommended before enrolment in this module.*		
7580	LAWS H1S02	Civil Air Law and Regulations
7583	MATH H1S01	Maths Principles for Flight Dispatchers
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
International Civil Aviation (ICAO) Annex 3 Meteorological Services Objective, determination and provision of Meteorological Services Supply, use and quality management of national meteorological services Notifications required from operator(s) of new route(s) or new aircraft type(s)
International Civil Aviation (ICAO) – Decoding weather observations Construction of weather observations; Wind direction and speed (upper and lower); Temperature and humidity (upper and lower); Cumulonimbus clouds (Thunder storms);Volcanic ash advisories
Cloud formations Description, classification, interpreting
Station model Definition; Examining and understanding the various symbols presented on the chart; Understanding and interpreting the information contained on the Actual and Terminal Area forecast; transmitting the Actual and Terminal forecast to the pilot-in-command during flight.

Assessment Breakdown	%
Continuous Assessment	40.00%
End of Module Formal Examination	60.00%

Continuous Assessment				
Assessment Type	*Assessment Description*	*Outcome addressed*	*% of total*	*Assessment Date*
Essay	Assignment covering learning outcomes 1 & 2	1,2	40.00	Sem 1 End

No Project

No Practical

End of Module Formal Examination				
Assessment Type	*Assessment Description*	*Outcome addressed*	*% of total*	*Assessment Date*
Formal Exam	End of module exam - all learning outcomes addresses	1,2,3,4,5	60.00	End-of-Semester

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

Module Workload

Workload: Part Time		
Workload Type	*Frequency*	*Average Weekly Learner Workload*
Lecture	Per Semester	0.96
Independent Learning Time	Per Semester	4.04
	Total Hours	125.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_BSFOP_D	[Bachelor of Science in Flight Operations](#)	2	Mandatory