

Module Title:	Advanced Aviation Meteorology		
Language of Instruction:	English		
Credits:	5		
NFQ Level:	7		
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 indepth knowledge of meteorology structures and alerts in civil aviation.		
Learning Outcomes			
On successful completion of this module the learner should be able to:			
LO1	Interpret weather fronts		
LO2	Demonstrate an understanding of surface and upper air charts		
LO3	Assess general climatology in relation to aviation		
LO4	Demonstrate an understanding of the importance of Prognostic charts		
LO5	Demonstrate an understanding of the importance of Meteorological warnings, storm, winter, rain storms, aircraft icing volcanic activity		
Pre-requisite learning			
Module Recommendations			
This is prior learning (or a practical skill) that is recommended before enrolment in this module.			
7582	AVIA H2S20	Introduction to Aviation Meteorology	
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
Weather fronts Analysing the various weather charts for flight planning purposes
Prognostic charts Definition; content; analysis of charts; use of charts
Meteorological warnings Air masses; frontal depressions; ICAO Annex 15; Aeronautical Information Services (AIS)
Communicating Meteorological conditions Use of Aircraft Communications addressing and Reporting System (ACARS); Advising the pilot-in-command on meteorological en-route, arrival and alternate airports; Use of aircraft meteorological data relay (AMDAR)
Meteorological Briefing Folder Current and up to date meteorological charts; Surface observations (departure, enroute and arrival airports); Special meteorological conditions which may affect the safe operation of the flight and the aircraft; Preparing and updating meteorological briefing information folder

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	1,2,3,4	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	Learning Outcomes Assessed - All	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		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	Per Semester	0.96
Independent Learning Time	Per Semester	5.04
Total Hours		150.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_BSFOP_D	Bachelor of Science in Flight Operations	3	Mandatory