MS130: Calculus II

Module Details

Title:	Calculus II APPROVED
Long Title:	Calculus II: Integration
Language of Instruction:	English

Module Code:	MS130

Credits:	5

NFQ Level:	8

Field of Study:	Mathematics

Valid From:	2020/21 (Sep 2020)

Module Delivered In	2 programme(s)

Administrator:	Niamh O'Sullivan

Module Coordinator:	Aindriú Conroy

moduledepartment:	41 - MATHEMATICAL SCIENCES

Module Description:	This module deals with the application of differentiation to max/min problems. The exponential and logarithmic functions are introduced. The course also develops skills in the techniques of integration. Application of integration to area, mean value and r.m.s. are also examined. A very basic introduction to first and second order differential equations is given.

Learning Outcomes	
On successful completion of this module the learner will be able to:	
LO1	Use various integration techniques
LO2	Solve basic first and second order differential equations
LO3	Consider various applications of integration

Pre-requisite learning
Module Recommendations *This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed. You may not enrol on this module if you have not acquired the learning specified in this section.*
No recommendations listed
Co-requisite Modules
No Co-requisite modules listed
Pre-Requisite *This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed. You may not enrol on this module if you have not acquired the learning specified in this section.*
No Pre-Requisites listed

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Module Content & Assessment

Indicative Content and Learning Activities
No indicative content

Assessment Breakdown	%
Continuous Assessment	20.00%
End of Academic Session	80.00%

Continuous Assessment

Assessment Type	*Assessment Description*	*Outcome Addressed*	*% of total*	*Assessment Date*
Assignment	n/a	1,2,3	20.00	n/a

End of Module Formal Examination

Assessment Type	*Assessment Description*	*Outcome Addressed*	*% of total*	*Assessment Date*
Formal Examination	n/a	1,2,3	80.00	End-of-Semester

Reassessment Pre-Requisite

Repeat examination
Reassessment of this module will consist of a repeat examination. It is possible that there will also be a requirement to be reassessed in a coursework element.

DCU reserves the right to alter the nature and timings of assessment

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Module Workload

Full Time hours per semester		
WorkLoad Type	*WorkLoad Description*	*Hours*
Lecture	No Description	36
Tutorial	No Description	12
Independent Study	No Description	77
	Total Hours	125.00

This module has no Part Time workload.

Module Resources

This module does not have any book resources
This module does not have any article/paper resources
This module does not have any other resources

Module Delivered In

Programme Code	*Programme Title*
DS	BSc in Data Science (Draft)
PGE	ITSC Physics General Entry (Draft)

Module Managers & Teachers

Module Managers		
Semester	*Staff Member*	*Staff Number*
Semester 1	Aindriú Conroy	80367193
Semester 2	Aindriú Conroy	80367193
Autumn	Aindriú Conroy	80367193

Module Teachers	
Staff Member	*Staff Email*
Aindriú Conroy	Aindriu.Conroy@dcu.ie