H9SDM : Science of Decision Making

Module Code:		H9SDM				
Long Title		Science of Decision Making APPROVED				
Title		Science of Decision Making				
Module Level:		LEVEL 9				
EQF Level:		7				
EHEA Level:		Second Cycle				
Credits:		5				
Module Coordinator:		COLETTE DARCY				
Module Author:		Isabela Da Silva				
Departments:		School of Business				
Specifications of the qualifications and experience required of staff						
Learning Outco	mes					
On successful co	ompletion of this modu	le the learner will be able to:				
#	Learning Outcome	Description				
LO1	Demonstrate critical including the distinct	critical knowledge and understanding of the models which underlie participants own and others' judgement anddecision-makingprocesses, distinction between System 1 and System 2 thinking.				
LO2	Critically analyse and	ly analyse and evaluate the psychology of decision making and its relevance to business decision making and application to real world contexts.				
LO3	Demonstrate a critica	strate a critical awareness ofdecision-makingmodels under risk and the role of heuristics and cognitive biases in individual decision making.				
LO4	Critically assess grou	ssess group decision making dynamics.				
LO5	Self-reflect on person	elf-reflect on personaldecision-makingprocesses and seek to identify way of improving both personal and business decision making processes.				
Dependencies						
Module Recommendations						
No recommendations listed						
Co-requisite Modules						
No Co-requisite modules listed						
Entry requirements		There are no additional entry requirements for this module. The programme entry requirements apply. No pre-requisites or co-requisitesapply.				

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Module Content & Assessment								
Indicative Content								
The Psychology of Decision-Making: What is a decision? How do we make decisions? Thinking processes and modes of thought (System 1 and 2) Rationality, bounded rationality and intuition Perception Memory and context Cognitive Neuroscience of Decision-Making								
Modes of decision-making under risk Expected Utility Theory (EUT) Prospect Theory Implications for effective decision-making								
Heuristics and common cognitive biases in individual decision-making Availability of heuristics and bounded awareness Representativeness heuristics Confirmation heuristics Framing, social preferences and ethics in decision-making Motivational and emotional influences on individual decision-making Intertemporal choice and decisions about the future (discounted utility model) Risk perception and risk communication								
Group Decision-Making Common traps in decision-making Overconfidence Group think Theories of the Entrepreneurial Firm Characterizing the New and Developing Firm Contemporary Theories in understanding Enterprise Management Considering how small firms can gain competitive advantage against large firms								
Improving Decision-Making Debasing techniques Choice architecture and nudges								
Assessment Breakdown	%							
Coursework			60.00%					
End of Module Assessment			40.00%					
Assessments								
Full Time								
Coursework								
Assessment Type:	Continuous Assessment	% of total:	60					
Assessment Date:	n/a	Outcome addressed:	1,2,3,4,5					
Non-Marked:	No							
Assessment Description: Reflective Journal – 15% Learners are required to produce a journal which reflects on their own and others thinking processes, biases and way that they can be improved Group Report – 30% Learners are required to work in groups of no more than four to produce a 2,000 word report on the topic of 'Are groups smarter than individuals? Group Presentation – 15% Identify an issue/problem and work through the stages of the decision making process.								

End of Module Assessment							
Assessment Type:	Terminal Exam	% of total:	40				
Assessment Date:	End-of-Semester	Outcome addressed:	1,2,3,4				
Non-Marked:	No						

Assessment Description:

Students are required to sit an end of module examination which will cover all the learning outcomes of the module. The students will be given different types of questions ranging from straight forward calculations to the interpretation of accounts.

No Workplace Assessment

Reassessment Requirement

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.

Reassessment Description

The students overall marks are a combination of both the CA and the terminal examination. An overall fail across both elements requires that the student attempt the repeat exam sitting. Should they fail this element then they must repeat the module. Where a student fails the CA element of the module, the lecturer may offer that learner the opportunity to sit a second case study however this will be capped at 40%.

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Module Workload								
Module Target Workload Hours 0 Hours								
Workload: Full Time								
Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload				
Lecture	Classroom and demonstrations	30	Per Semester	2.50				
Directed Learning	Directed e-learning	30	Per Semester	2.50				
Independent Learning	Independent learning	65	Per Semester	5.42				
Total Weekly Contact Hours								

Module Resources

Recommended Book Resources

Benjamin R. Newell, David A. Lagnado, David R. Shanks. (2022), Straight Choices, 3rd. Psychology Press, p.360, [ISBN: 9781032267845].

Gazzaniga MS, Ivry RB, Mangun GR, 2019. Cognitive Neuroscience: The Biology of the Mind, Fifth Edition. Chapter 12.4, Decision Making. W.W. Norton & Company.

Hodgkinson GP, Sadler-Smith E, Burke LA, et al, 2009. Intuition in organizations: Implications for strategic management. Long Range Planning.

Kahneman D , 2011. Thinking Fast and Slow: Penguin.

Kahneman D and Tversky A, 1979. Prospect theory: an analysis of decision under risk. Econometrica 47(2): 263-291.

Plous, S, 1993. The psychology of judgment and decision-making. McGrawHill.

Thaler RH and Sunstein CR, 2008. Nudge. Improving decisions about health, wealth, and happiness: Yale University Press.

This module does not have any article/paper resources

This module does not have any other resources

Discussion Note: