## **VALIDATION REPORT**



4	Title of	Rechales of Fusing anima (House) in Action Items Fusing a single		
1.		Bachelor of Engineering (Hons) in Agricultural Engineering		
	(incl. Award Type and	Bachelor of Engineering in Agricultural Engineering		
	(Incl. Award Type and			
	Specify Embedded			
2	EXIL Awards)	0 and 7		
Ζ.	NFQ Level(s)/	8 and 7		
	NO. ECTS:	240 and 180		
3.	Duration:	4 years/3 years		
4.	ISCED Code:	0/10		
5.	School / Centre:	School of Engineering		
6.	Department:	Department of Mechanical and Industrial Engineering		
7.	Type of Review:	Differential Validation		
8.	Date of Review:	24 <sup>th</sup> June 2020		
9.	Delivery Mode:	Full-time		
10.	Panel Members:	Dr Seamus Lennon (Chair)		
		Dr Trish O'Connell		
		Mr Michael Gill		
		Mr Ronan Gibbons		
		Ms Carmel Brennan (Secretary)		
11.	Proposing Staff:	Dr Carine Gachon		
		Mr Oliver Mulryan		
		Mr PJ McAllen		
		Dr Gabriel J Costello		
		Dr Edna Curley		
		Mr Enda Kennedy		
		Mr Gerard O'Donnell		
		Mr Gabriel Costello		
12.	Proposed Changes	The B.Eng. (level 7 and 8) in Agricultural Engineering were		
		developed in collaboration with Mountbellew Agricultural		
		College and commenced in 2017. The Programme Board		
		proposed three changes:		
		- The amendment of elements of structure and content to		
		allow for the incorporation of additional agri science		
		credits providing students with a better foundation in		
		agriculture for application of engineering concepts and		
		solutions and to allow the programme to become Green		
		Cert Compliant which offers benefits to graduates		
		working in farming. The main changes are additional		
		credits each academic year. the reduction in scope and		
		weighting of the work placement, the removal of two		

		<ul> <li>engineering modules and the insertion of additional agriculture focussed modules.</li> <li>Rewriting of Programme Learning Outcomes to be better aligned with Engineers Ireland outcomes.</li> <li>Development of a Higher Certificate exit award.</li> </ul>		
13.	Stakeholder Engagement:	Current students, the External Examiner and Teagasc have been consulted on the proposed changes to the programme. In particular there has been significant engagement with Teagasc in relation to the proposed changes and whether they comply with the Green Cert requirements.		
14.	Graduate Demand:	Programme listing as qualified farmer status offers potentially offers significant benefits to graduates in respect of stamp duty, stock relief tax and duty manuals.		
15.	Resource Implications:	The cost implications of additional agricultural content delivery is in the region of €21,000.		
16.	Findings and Recommendations:	General:		
		The amendments to the structure and content of the programme to allow the programme to meet the educational criteria for qualified farmer status is approved subject to the condition (1) and recommendations (12) below.		
		The proposed learning outcome changes are extensive and therefore deemed to be outside the remit of the Differential Validation Process.		
		The Higher Certificate exit award is not approved at this time. If considering future submission, the Programme Learning Outcomes need to be rewritten to be aligned to the level 7 and level 8 Programme Learning Outcomes. The criteria for attainment need to be amended to reflect the credits contained within the first two stages of the programme. The potential demand for graduates of a Higher Certificate and their knowledge and skill set needs to be illustrated.		
		Special conditions attaching to approval (if any):		
		<ol> <li>The original approved programme learning outcomes should be reinstated, with a minor modification reflecting the additional science content. These are to be submitted to, and reviewed by, the Chair and Secretary.</li> </ol>		

		Recommendations of the panel in relation to award sought:						
		2.	<ul> <li>The Programme Board should continually monitor the retention rate of this programme in light of the</li> </ul>					
			additional workload for student	s, and the structure of				
			the programme should be revie	wed considering this.				
		3.	The Programme Board should c	onsider how engineering				
			and science lecturers will work	together to ensure that				
			the science content is fully integrated, ensuring the programme is coherent with clear linkages between					
			engineering and science conten	t.				
		4.	It should be made explicit in all programme					
			communication and promotional material that students are required to take an additional 5 ECTS each year and					
the benefits of same.								
		5.	Requirements for additional resources to deliver the programme and any suggestions around the material fee must be referred to the Executive Board.					
		6.	The reading lists for the new modules need to be					
			updated and the repeat mechanism should be clarified in all instances.					
		7.	Amend the module descriptor for Drystock Production to reflect the proposed 3 hours for delivery.					
		8.	The blended delivery of specified modules should be reflected in the module descriptors.					
		9.	Consider inclusion of grading system in the indicative syllabus of Drystock Production. . Consider including robotic milking machines in the indicative syllabus for Dairy Production. . Include reference to forestry and organics in the					
		10						
		11						
			indicative syllabus for Sustainable Farming and the					
			Environment. . Consider including farm partnership and corporations in Farm Animal Health and Planning.					
		12						
		13	. Consider increasing emphasis o	n safety in the Farm				
			Management, Safety and Law n	nodule.				
22.	FAO: Academic	Ар	proved:					
	Council:	Ap	proved subject to	X				
		rec	ommended changes:					
		No	t approved at this time:					
	Signed:							
		Ch	- 1	Compton				
			air	Secretary				