VALIDATION REPORT



1.	Title of	MSc in Nutrition and Sensory Science	
	Programme(s):	Postgraduate Diploma in Science in Nutrition and Sensory	
	(incl. Award Type	Science	
	and Specify	Certificate in Nutrition and Sensory Science	
	Embedded Exit		
	Awards)	The Postgraduate Diploma and Certificate will also act as exit	
		awards for the Masters programme.	
2.	NFQ Level(s)/	9	
	No. ECTS:	90 ECTS, 60 ECTS, 30 ECTS	
3.	Duration:	MSc – 1.5 years	
		Postgraduate Diploma – 1 year	
		Certificate – 1 year	
4.	ISCED Code:	0510	
5.	School / Centre:	School of Science and Computing	
6.	Department:	Department of Sport, Exercise & Nutrition Science	
7.	Type of Review:	New Programme	
8.	Date of Review:	25 th May 2021	
9.	Delivery Mode:	Blended	
10.	Panel Members:	Dr Joe McGarry, Education Consultant (Chair)	
		Prof Sungeon Cho, Assistant Professor, Auburn University	
		Dr Patricia Heavey, Lecturer and Course Co-ordinator Health	
		Science and Nutrition, Athlone Institute of Technology	
		Ms Annette Hargaden, Quality Manager, Irish Distillers	
		Ms Carmel Brennan, Head of Academic Quality GMIT	
		(Secretary)	
11.	Proposing Staff:	Dr Des Foley	
		Dr Lisa Ryan	
		Ms Jacinta Dalton	
		Ms Paula Conroy	
		Dr Francesco Noci	
		Dr Clare Gilsenan	
		Mr Ulrich Hoeche	
12.	Programme	The proposed MSc in Nutrition and Sensory Science and	
	Rationale:	embedded awards are innovative courses, which have been	
		designed taking a multi-disciplinary approach to academic	
		and experiential development for students from a range of	
		professional backgrounds. There are significant growth	
		opportunities for Ireland's functional food export market to	
		EU, Asian and African markets (DAFM, n/d). McCarty (2015)	
		recommends that functional foods should be marketed on a	
		multi-benefit platform that not only includes nutrition but	

		in the context of nutrition, sensory and taste science. The course is based on the latest scientific research into current sensory science techniques, functional foods, nutrition and health and taste science and best novel contemporary practice. According to Nielsen (2015), the failure rate of for new
		products launched annually is 76 percent. Food producers, manufacturers and retailers are increasingly looking to include sensory and taste science in the product development process, as one critical component in reducing the risks associated with existing and new product development. In response to this challenge, the Department of Agriculture, Food and Marine established the Sensory Food Network of Ireland amongst the universities, Institutes of Technology and Teagasc, to promote sensory and taste science in Ireland.
13.	Potential Demand for Entry:	Giving due consideration to the predicted level of interest in the programme following the consultation process and the need to provide adequate research supervision and support, a target of 16 students (FTE) is suggested. It is likely that there will be a mix of full time and part-time students and the programme has been developed to allow that flexibility.
14.	Stakeholder Engagement:	As part of the development of this programme a wide-ranging consultation of students, employers and professionals in the area was completed. Staff within the School of Science and Computing have a strong relationship with local, national and international employers and there is much interaction at an informal level, (through personal contacts, for instance) as well as through more formal structures such as professional memberships.
		A systematic approach to the consultation was undertaken. Informal discussion with >200 undergraduate students took

		place throughout the 2019-2020 and 2020-2021 academic years. A snowball approach was taken to the consultation where the programme team initially contacted known industry representatives and then asked for introductions to further experts in the area to provide a wide range of feedback and consultation.
15.	Graduate Demand:	 The MSc in Nutrition and Sensory Science is of benefit to individuals seeking to enhance careers in many areas of the food sector, both in Ireland and internationally. Graduates will work in areas such as product innovation, marketing, sales and product quality enhancement with the distinct advantage of bringing a nutrition and sensory analysis perspective to their role within the food industry. These roles include: Sensory Scientist Sensory & Consumer Scientist New Product Development Technologist RD&A Scientist Digital Consumer Insights Analyst Digital Food Media Associate Research Officer in State Agencies and HEIS Advisory roles in Nutrition, Sensory & Taste Sciences Self-employment (consultant, entrepreneur)
16.	Entry Requirements, Access, Transfer & Progression:	 Minimum Entry Requirements: Candidates must hold a cognate Level 8 Bachelor (Hons) degree with a minimum grade classification of H2.2 or equivalent. Typically, students should come from a scientific background though applications that demonstrate appropriate experiential learning will also be considered. English Language Requirements will be as determined by GMIT and as published in the Access, Transfer and Progression code. The current requirements are as follows: Non-EU applicants who are not English speakers must have a minimum score of 6.0 (with a minimum of 6.0 in each component) in the International English Language Testing System (IELTS) or equivalent. All results must have been achieved within 2 years of application to GMIT. EU applicants who are not English speakers are recommended to have a minimum score of 6.0 (with a minimum of 6.0 in each component) in the International English Language Testing System (IELTS) or equivalent. All results must have been achieved within 2 years of application to GMIT.

17.	Programme Structure:	GMIT is committed to the principles of transparency, equity and fairness in recognition of prior learning (RPL) and to the principle of valuing all learning regardless of the mode or place of its acquisition. Recognition of Prior Learning may be used to gain entry to or exemptions from the programme in line with the GMIT policy. The programme consists of 30 ECTS of taught modules delivered on a semesterised basis and two 30 ECTS interrelated research project modules.
18.	Learning, Teaching & Assessment Strategies:	 The teaching and learning strategies employed for this blended approach recognise level 9 students as adult learners, and are based on the constructivist approach, recognising learning as an active process whereby students are encouraged to build on existing knowledge to develop new schemas of understanding which they can apply to a variety of contexts. Student-centred teaching strategies will maximise problembased learning focussed on authentic real-world scenarios relevant to the discipline. Active learning approaches (professional practice, research-based projects, field exercises, practical classes) will ensure that learning through doing dominates the programme rather than passive learning achieved by traditional lecturing approaches. A variety of teaching modalities fit to the content of a course will be used: Lectures (provided by academic & research staff, industry). These will be delivered in an online environment. Seminars: a session in which a specific topic fitting the scope of the course is discussed by an expert in the field Practical exercises: sessions in nutrition and food/sensory facilities in which students get hands-on practical training Intensive group activities, in class debates, role-play, journal clubs, online discussion groups and activities Research based learning: learning from being actively or passively involved in a research activity

		literature review, an ethics application and a research paper for publication.
19.	Resource Implications:	The programme can be taught within existing resources for stage 1 but will require additional academic resources to supervise masters research projects. One additional staff member will be required as the first cycle progresses. Equipment and space are being sourced but will need to be enhanced as the programme grows. Half a technician is required to deliver the programme.
20.	Synergies with Existing Programmes:	The Research Methods and Research Projects modules are common with another Masters Programme in the Department leaving scope for common delivery as appropriate.
21.	Findings and Recommendations:	General: Commendations: 1. The panel welcomed this new and innovative proposal and particularly its uniqueness in the Irish context. 2. The extensive consultation undertaken with industry was highly praised and the quality and positivity of the feedback was noted. 3. The panel were highly complimentary of the consultation undertaken with students to inform this programme and establish their requirements. 4. Modules are supported by a strong evidence approach and students will be provided with the opportunity to develop critical analysis skills during this programme. 5. The programme is strong on research elements, and the skills students develop in those modules will be very useful in a professional setting. The programme was approved subject to the following condition(s) (0) and recommendation(s) (6). Special conditions attaching to approval (if any): None.
		Recommendations of the panel in relation to award sought:

		 the moment. The integration be evident within each model. The programme assessment reflect the integrated appropriate proposed and provide examinassignments that may be unprogramme. Enhance the content relating (concept to launch) within the easies of Food and Nutre needs to clearly articulate the sensory science. Addressint module may help address the should consider whether the module are adequate to act outcomes. Consumer & Trained Panel including ethics in the syllate the panel strongly recommends are adequate. Sensory Techniques for Nutre content should be more tare the the tare and culinare targeted content and assestions to allow for appropriate the sensory science and culinare targeted content and assestions to allow for the tare tare tare to act outcomes. 	here is a lack of integration functional foods and ence in the documentation at on of these elements should dule. It strategy should clearly bach to assessment that is inples of integrated indertaken as part of this on to product development the programme. Itional Science: This module he link between nutrition and g the assessment for this his issue. The proposers he hours allocation for this hieve the module learning Sensory Science: Consider ous. As this is a core module end incorporating practical oriate skills development. Dund running a panel and trition Research: This module's regeted to nutritional research. On between the nutrition, y lecturers to develop very sments. Include more re that students gain the skills this topic as well as ed by industry. Students instruments that measure and correlation of the
22.	FAO: Academic	Approved:	
	Council:	Approved subject to	X
		recommended changes:	
	C'a a a d	Not approved at this time:	
	Signed:	Joe McGarry Chair	Carnel Bern