CORK INSTITUTE OF TECHNOLOGY
INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ

Report of Validation Panel
for a Special Purpose, Minor or Supplemental Award

Date of Meeting: June 16th 2016

Named Award: Certificate

Programme Title: **Certificate in Building Energy Analysis**

Award Type: Special Purpose Award

NFQ Level: 8

Intakes Commencing: September 2016

ECTS/ACCS Credits: 15

PANEL MEMBERS

Name / Function / External Institution OR CIT Academic Unit
Dr Joseph Harrington, Head of School, School of Building and Civil Engineering, CIT (Chairperson)
Richard Farrell, Director, Engineering Design Consultants Ltd. (EDC)
Ted McKenna, Lecturer, Department of Civil, Structural & Environmental Engineering, CIT

IN ATTENDANCE

Name / Function / External Institution OR CIT Academic Unit

PROPOSING TEAM MEMBERS

Name / Function / Academic Unit
Daithi Fallon, Head, CAMMS Centre, CIT
Mike McGrath, Manager, CAMMS Centre, CIT
Paul Keane, CAMMS Centre, CIT
Willie Bateman, Department of Process, Energy & Transport Engineering
Paul O' Sullivan, Department of Department of Process, Energy & Transport Engineering

BACKGROUND TO THE PROPOSED PROGRAMME

This programme provides learners with an opportunity to up-skill in the area of Building Energy Analysis. The programme incorporates three modules covering the areas of Commercial BER (Building Energy Rating), Degree Day Analysis and Building Thermal Dynamic Analysis.

FINDINGS OF THE PANEL

*NOTE: In this report, the term "**Requirement**" is used to indicate an action or amendment which in the view of the Panel **must** be undertaken prior to validation and commencement of the Programme. The term "**Recommendation**" indicates an item which the Course Board (or other relevant Institute unit) should implement at the earliest stage possible, and appropriate implementation of which should be the subject of ongoing monitoring.*

The panel would like to commend the programme proposers on the programme documentation and their engagement with the panel during the meeting.

On consideration of the documentation provided and discussion of the programme with the proposers, the Panel has arrived at the following Findings, Requirements and Recommendations:

1. Validation Criteria

1.1 Is there a convincing need for the programme with a viable level of applications?

Overall Finding: Yes

Finding(s): The panel finds that there is a need for the programme with a viable level of interest in industry from current Level 7 Building Services Engineering graduates and also potentially from graduates of the CIT Level 8 Sustainable Energy Programme (or equivalent); there is a clear and current deficit of Building Services Engineers in Ireland with the specialist skills required by the energy industry.

Recommendation(s):

1.2 Are the level and type of the proposed award appropriate?

Overall Finding: Yes

Finding(s): The panel find that the level and type of the programme is appropriate to the intended target student cohort and to the graduate skills being developed.

1.3 Is the learning experience of an appropriate level, standard and quality?

Overall Finding: Yes

Finding(s): The panel find that the programme and the individual modules are at the appropriate level, standard and quality.

1.4 Is the programme structure logical and well designed (including procedures for access, transfer and progression)?

Overall Finding: Yes

Finding(s): The panel is satisfied that the structure of the programme is logical, well designed and meets the needs of learners. Students who take the programme may ultimately progress to the Level 8 BEng (Hons) in Building Energy Systems in CIT.

1.5 Are the programme management structures adequate?

Overall Finding: Yes

Finding(s): The programme will operate and will be managed by the CAMMS Centre which has a long and distinguished track record of successfully managing such programmes. The programme will be attached to and will be the responsibility of the Department of Process, Energy and Transport Engineering in the School of Mechanical, Electrical & Process Engineering.

1.6 Are the resource requirements reasonable?

Overall Finding: Yes
Finding(s): The resource requirements are currently in place; no additional resources are required.

1.7 Will the impact of the programme on the Institute be positive?

Overall Finding: Yes

2. Other Findings

The Panel welcomes this proposal which is timely and relevant. It will contribute to addressing a skills gap in the Building Services Engineering industry.

The Panel discussed the content of the approved modules with the programme proposers. The Panel encourages the programme team to ensure that a balanced approach is taken to delivery of the module content (Building Thermal Dynamic Analysis) to reflect both the theory and the applied nature of the learning and to ensure that learners are aware and have an appreciation of the current modelling software used by the energy industry, e.g. the Integrated Environmental Solutions (IES) software package.

CONCLUSION

Based on the above findings, the Panel recommends to Academic Council:

That the Programme be validated for five academic years, or until the next programmatic review, whichever is soonest, subject to implementation of the Requirements above, and with due regard to the Recommendations made.

Semester Schedules

Stage 1 / Semester 1

Mandatory								
Mod Code	**Module Title**	**Co-ordinator**	**Level**	**Credits**	**FT Contact Hours**	**PT Contact Hours**	**Course Work**	**Formal Exam**
MECH8027	Degree Day Analysis (Approved)	MICHAEL J O MAHONY	Advanced	5.0	3.00	3.00	100.0	0.0
MECH8026	Building Energy Compliance (Approved)	MICHAEL J O MAHONY	Advanced	5.0	4.00	0.00	100.0	0.0

Stage 1 / Semester 2

Mandatory								
Mod Code	**Module Title**	**Co-ordinator**	**Level**	**Credits**	**FT Contact Hours**	**PT Contact Hours**	**Course Work**	**Formal Exam**
BULD8021	Building Thermal Dynamic Anal (Draft)	DAITHI FALLON	Advanced	5.0	4.00	0.00	100.0	0.0