

# RENEWABLE ENERGY DEGREE @ LIT

The Degree in Renewable and Electrical Energy Systems has been approved for funding from FAS under the One-Step-Up program. Qualifying applicants must register on the degree programme, must be in employment and not receiving funding from other sources. The funding covers 50% of the cost of all modules on the degree.

The following modules are planned for - **January 2008**.

For registration details and FAS application forms, please contact the Adult Education department at the Limerick Institute of Technology. [aced@lit.ie](mailto:aced@lit.ie) 061-208802. [www.lit.ie](http://www.lit.ie)

## BUILDING ENERGY RATINGS (BER)

### AIMS OF THE COURSE

Having successfully completed this module, the student will be able to:

1. Explain the key objectives and the background to the Energy Performance of Building Directive (EPBD)
2. Demonstrate the ability to undertake limitation of CO<sub>2</sub> emission calculations as required by the Building Regulations (Regulation L2(a)) and as outlined in the Technical Guidance Document to the Building Regulations Part L (May 2006 Edition)
3. Demonstrate the ability to accurately collect data on dwelling specifications and other characteristics that affect energy and CO<sub>2</sub> emissions performance and input it into the DEAP software to produce BER Labels and Advisory Reports for new dwellings
4. Produce BER Ratings and Advisory Reports for new dwellings
5. Explain the significance, in BER terms, of varying the specifications for new dwellings

12 weeks, 2 nights per week, from 7:00 – 10:00 p.m. Every Tuesday & Thursday, Starting Tuesday 5<sup>th</sup> February 2008. COURSE FEES: €1275, This includes exam fees of €25  
Information - Contact: John McDonald, 061-208208 or [john.mcdonald@lit.ie](mailto:john.mcdonald@lit.ie)

## RENEWABLE ENERGY TECHNOLOGY 2

### AIMS OF THE COURSE

Having successfully completed this module, the student will be able to:

1. describe the different forms of water power and the possibilities for energy conversion
2. explain the techniques for the conversion of energy from hydro application
3. describe the techniques for the conversion of energy from waves and tidal applications
4. describe the fundamentals of solar power and the techniques for the conversion of energy from solar
5. demonstrate the characteristics and operation of photovoltaic cells
6. describe the growth, processing and use of bio crops and fuels.

12 weeks, 2 night per week, from 7:00 – 10:00 p.m. Every Monday and Wednesday, Starting Monday 4<sup>th</sup> February 2007. **COURSE FEES:** €1025, This includes exam fees of €25  
Information - Contact: Joe Dunk, 061-208208. [joe.dunk@lit.ie](mailto:joe.dunk@lit.ie)

### ENTRY REQUIREMENTS

Learners should have attained a level 6 qualification or equivalent and should have a broad knowledge of the renewable energy sector. These are not introductory modules and some familiarity with the area as well as a level of independent study would be expected for exam success.