

Ollscoil na hÉireann, Gaillimh  
*National University of Ireland, Galway*  
**Semester II Examinations 2004 / 2005**

<b>Exam Code(s)</b>	3BA1, 3BA5, 3BA6, 4BA4, 3BC1, 4BC2, 4BC3, 4BC4, 4BC5, 1EM1, 1OA1
<b>Exam(s)</b>	B.A., B.A. (ESS), B.A. (PSP), B.A. (Int'l), B.Comm., B.Comm. (Language), Erasmus, Occasional
<b>Module Code(s)</b>	EC378
<b>Module(s)</b>	Economics of Technological Change
<b>Paper No.</b>	1
<b>Repeat Paper</b>	
<b>External Examiner(s)</b>	Professor Vincent Munley
<b>Internal Examiner(s)</b>	Mr. Brendan Kennelly Dr. Aidan Kane

**Instructions:**

Please answer **TWO** of the following questions, with the proviso that you may not answer both question 1 (on the research project) and another question closely related to the topic of the research project.

<b>Duration</b>	2 hours
<b>No. of Pages</b>	2 (including cover sheet)
<b>Department(s)</b>	ECONOMICS
<b>Course Co-ordinator(s)</b>	Dr. Aidan Kane

**Requirements:**

MCQ  
 Handout  
 Statistical Tables  
 Graph Paper  
 Log Graph Paper  
 Other Material

*Ollscoil na hÉireann, Gaillimh*  
National University of Ireland, Galway

Summer Examinations 2004/2005

**EC378 Economics of Technological Change**  
Final B.A., B.Comm, visting students

Prof. V Munley  
Mr. Brendan Kennelly  
Dr A. Kane

Time Allowed: TWO HOURS.

Please answer **TWO** of the following questions, with the proviso that you may not answer both question 1 (on the research project) and another question closely related to the topic of the research project.

1. Outline the motivation behind the topic chosen for your research project in this course, indicate the nature of the sources used, and summarise the key ideas involved in it. Comment, where relevant, on the implications of your work for the conduct of Science, Technology and Innovation (STI) policy.
2. Discuss some of the principal alternative measures of productivity and issues associated with their implementation and interpretation.
3. Outline two main types of models of the diffusion of technology and comment on the applicability of some elements of these models to a particular examples, such as the adoption of ICTs/consumer electronics
4. Explain, using examples from the literature how the extent externalities in R+D at intra or inter-industry level might be estimated.
5. In what ways might an economist judge whether ICTs and the internet in particular comprise a truly 'new economy'? Explain with particular reference to the analysis of productivity.