Determining student satisfaction: An economic analysis of the National Student Survey

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ARTICLE INFO

Article info:
Article history:
Received 1 August 2013
Revised 21 April 2015
Accepted 3 May 2015
Available online 15 May 2015

JEL classification:
I20
I23
J24

Keywords:
Educational economics
Higher education
Fixed effects
Random effects
Student satisfaction

ABSTRACT

The UK National Student Survey (NSS) represents a major resource, never previously used in the economics literature, for understanding how the market signal of quality in higher education works. In this study, we examine the determinants of the NSS overall student satisfaction score across eleven subject areas for 121 UK universities between 2007 and 2010. Using a unique panel data set and estimating random effects and fixed effects models, we find large differences in NSS scores across subjects and across different groups of universities, which implies that the raw scores should not be used as a method of ranking. Additionally, the student–staff ratio and student employability are strong influencers of student satisfaction; both of which suggest that a policy which places emphasis on student support, personal development and employability skills will yield an advantage in the higher education marketplace.

1. Introduction

The annual National Student Survey (NSS), introduced in the UK in 2005 and completed by the graduating student body of all publicly funded higher education institutions and by some private institutions, was intended to be a method by which universities could assess their own teaching quality and seek to improve student satisfaction with their courses. The survey is commissioned by the Higher Education Funding Council for England (HEFCE), administered by the social research company Ipsos Mori, and forms part of the quality assurance framework implemented by the Quality Assurance Agency (QAA) for higher education. The NSS has become one of the major instruments by which universities seek to compete in the market for student recruitment by sending a signal of teaching quality. Furthermore, these scores are not only used as a ranking device of student satisfaction across universities, they are incorporated into the major university league tables (HEFCE, 2008).

The administering of the survey itself, between January and April when students are in their final year, has been subject to many allegations of potential distortion including claims that students could be encouraged by their teachers to provide an excellent review (The Times Higher Education Supplement: May 2008). As noted by HEFCE, “Whether attempts to use the results to enhance quality have been successful is an unresolved issue” (HEFCE, 2010, p.11). However, since the announcement of the new higher student fee schedule that saw fees for many full-time courses increased to £9000 per annum from 2012, students possess more incentive than ever to search for the best value student experience they can find, hence the NSS is potentially a key weapon for universities to deploy in search of market share.

The economics literature, in measuring institutional performance, has followed one of two strategies: either it has focussed on the labour market outcomes of graduates or
2. Data and methodology

2.1. The National Student Survey data

The NSS questionnaire, administered to all graduating students, consists of 22 questions across six areas of university life: teaching; assessment and feedback; academic support; organisation; resources and personal development. A final question asks students for an overall rating of their satisfaction with the quality of their course which is answered on a five point Likert scale from ‘definitely agree’ to ‘definitely disagree’:

“Overall, I am satisfied with the quality of the course”

The NSS data is provided on the ‘HEFCE’ website2 and available for subjects within the joint academic coding system (JACS) 4 digit code level, of which there are 142. The NSS data presents JACS subjects coded in three levels according to the level of aggregation, for example, Languages is given as level 1 which includes all programmes that are language related. A lesser level of aggregation is European languages at level 2, which as it name implies consists of all European languages. A further disaggregation is of single programmes i.e. French, German and Italian etc. which are classed at level 3. However, not all universities have recorded NSS results at level 3, either because the programme is not offered or because there are not enough observations to be able to report the NSS response in that year.3 For this reason subjects were selected from levels of aggregation where we have sufficient NSS observations within one year. The subjects selected include Biological sciences at level 1 and Art and Design, Business, Computing, Economics, European languages, History, Mathematical sciences, Management, Psychology and Sociology at level 2. The choice of subjects in this paper was also made to reflect different faculties and different types of teaching, i.e. laboratory versus classroom taught subjects.

We match in data on finance resources, student numbers in higher education, student performance indicators and the destination of graduates for each of our subject areas within 121 UK universities; all this subject-related data is provided by arrangement by the UK Higher Education Statistics Agency (HESA).4 The overall NSS score for each subject area is calculated as the average of the answer to the final score. Additionally, the percentage of students who agree or definitely agree with the statement above, that is they rate as a 4 or 5 on the Likert scale, is often cited in rankings of university performance. In the analysis presented here we use both these measures and focus upon eleven subjects within each university, namely; biological sciences, mathematical sciences, psychology, computer sciences, economics, sociology, business and administration, management, European languages, history and art and design. The choice of these eleven subjects was driven largely by the availability of matching data across our data sources and this provided a total sample of 3438 observations within 121 Universities across England, Scotland, Wales and Northern Ireland (see Supplementary Materials, Appendix Table A1 for a list of universities in this study along with their classification and Table A2 for an overview of degree classification and funding regimes within each country of the UK). The dataset is an unbalanced panel due to missing information at the subject level in particular years from some

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1 For example: the ‘Times Higher’ guide and the ‘Guardian’ university rankings.

2 www.hefce.ac.uk/whatwedo/IT/publicinfo/unistats.

3 The NSS response rate must be at least 50% or a minimum of 23 responses to be recorded.

4 The publicly available files of finance resources, students in Higher Education, performance indicators and destinations of leavers from higher education (DLHE) provide information either by subject or by institution only, not by subject within each institution.
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