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Personal and Emotional Factors in the Labour Integration of University Graduates in the Field of Education. Implications for University Teaching.

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≈ The main aim of this paper is to analyse the role of intellectual, personal and emotional competencies as well as technical knowledge - academic achievement - in the employment of university graduates, with the purpose of incorporating these competencies into training programmes developed within the European Framework of Higher Education. This study is based on an initial sample of 118 university graduates in the field of education. We have gathered information about academic achievement and the intellectual, personal and emotional traits of this sample. From these data, and given the importance of non-intellectual aspects of intelligence associated with professional success, the specific contribution -incremental validity - of personal and emotional intelligence in explaining the employment - labour integration - of university graduates in the field of education is studied. From this point onwards, we attempt to identify the key socio-emotional competencies in the field of education in order to establish the implications of including this type of skills in university training programmes within the European Higher Education Area.

Key words: Emotional intelligence, Labour integration, Personality, University education of teachers

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Introduction

The main objective of this research project is to analyse the role that intellectual, personal and emotional traits play in predicting and explaining integration into the labour market of university graduates from Departments of Education, while also establishing the implications of including personal and emotional competencies in university academic curricula (Ayers & Stone, 1999; Fallows & Steven, 2000; Hettich, 2000; Jaeger, 2003). The personal and socio-emotional factors included in this study are very similar to several of the generic competencies established within the European Higher Education Area (European Education Council, 2006; Gonzalez & Wagenaar, 2003).

Traditionally, academic intelligence is associated with general or analytical intelligence as defined in psychometric terms, such as IQ (Sternberg, 2003; Sternberg, Castejón, Prieto, Hautamäki & Grigorenko, 2001; Sternberg, Prieto & Castejón, 2000). Meanwhile, social intelligence is a broad construct with less easily defined boundaries, and which in scientific literature is in some cases linked to emotional intelligence (Bar-On, 2000; Goleman, 1998) and in others to practical intelligence (Hendlund & Sternberg, 2000). Likewise, the definition of emotional intelligence includes two different conceptions (Bar-On, 2000; Mayer, Roberts & Barsade, 2008). One broad conceptualisation considers emotional intelligence as a combination of attributes that are intimately tied to personality but different from IQ and related to competencies underlying academic and professional performance (Bar-On, 2000; Goleman, 1995, 1998). Another more restrictive conceptualisation considers it as the ability to perceive and understand emotion-related information (Mayer, Caruso & Salovey, 2000).

Skills inherent to socioemotional intelligence, once correlated to performance in the professional realm, have been considered as competency models (Boyatzis, 1999; Boyatzis, Goleman & Rhee, 2000). In particular, mixed models of emotional intelligence bring together broad competencies of a socioemotional nature (Mayer, Salovey & Caruso, 2000b). Furthermore, most professional competencies identified as key competencies for professional performance comprise, or are closely related to, aspects under study in the field of emotional intelligence.

Research on emotional intelligence (Bar-On, 2000; Goleman, 1997, 2001; Mayer, Roberts & Barsade, 2008) traditionally emphasises the value of non-intellectual factors in predicting/explaining academic

and professional achievement. Some authors even pose the hypothesis that individual academic qualifications are less important than personal factors as grades are a condition common to a large group, whilst what increases opportunities for employment is a compendium of attitude-based competencies and social skills concerning work (Mora, 1997; Planas et al., 2000), in addition to continued training. In this regard, García-Aracil and Van der Velden (2008) find that graduates with more professional competencies have higher incomes and greater levels of satisfaction with their employment.

Cognitive abilities are especially important in the workplace, particularly when one's job is more complex (Gottfredson, 2003), whereas emotional competencies are considered critical to effective performance in most types of jobs (Cherniss, 2000), as well as in relation to labour integration and employability (Palací & Topa, 2002; Palací & Moriano, 2003).

Socioemotional competencies are highly valued in the labour market. Most jobs do not merely require technical knowledge and skills, but also a certain level of socioemotional competencies. Cherniss (2000) points out that a major part of investment by American companies in training targets social and emotional abilities. A national survey carried out with American employers concluded that six of seven competencies key to professional success are inherent to emotional intelligence (Ayers & Stone, 1999; Goleman, 1998). Nevertheless, most universities fail to include these competencies in their syllabi (Boyatzis et al., 1995; Echeverría, 2002).

Although these competencies do not exclusively predict or explain professional performance (Schmidt & Hunter, 1998), emotional competencies seem to have an explanatory power that goes beyond other variables (Goleman, 1998). These competencies affect important aspects of one's professional career, such as labour integration or employability (Fallows & Steven, 2000; Hettich, 2000).

Despite the importance attributed to some inherently non-intellectual aspects, such as personality and emotional intelligence, in academic and professional achievement as well as professional development in general (Coté & Miners, 2006; Dulewicz, Higgs & Slaski, 2003; Lopes et al., 2006; Pérez & Castejón, 2007), greater empirical evidence is required regarding this relationship, as the influence of these variables is not always evident (Barchard, 2003; Brackett & Mayer, 2003; Zeidner, Mathews & Roberts, 2004). Likewise, well-designed studies that control variables traditionally considered to be important - such

as variables related to personality, intellect, and technical knowledge (Davies, Stankov & Roberts, 1998; Sternberg, 2003) - are necessary to detect the contribution of these factors to the labour integration of university graduates. Therefore, the incremental validity of personal and emotional factors must be defined in order to predict a given criteria - in this case, labour integration - beyond the contribution made by measurements of general intelligence and acquired technical know-how (Amelang & Steinmayer, 2006; Bastian, Burns & Nettelbeck, 2005; Brackett & Mayer, 2003; Van-der-Zee, Thijs & Schakel, 2002).

In addition, it is necessary to establish the general or specific nature of different aspects of non-academic intelligence for the purpose of identifying either general factors shared across different professional fields or specific components of personality and emotional intelligence associated with achievement within each profession (Boyatzis, 2008; Boyatzis, Goleman & Rhee, 2000).

In the field of teaching, a positive relationship is found between emotional intelligence and teachers' personal adjustment and wellbeing (Palomera, Fernández-Berrocal & Brackett, 2008). Studies analysing the relationship between emotional intelligence and burnout in secondary level education teachers (Chan, 2006) show how burnout negatively influences teacher wellbeing (Vanderberghe & Huberman, 1999) and teacher-student interpersonal relationships (Yoon, 2002).

Jennings and Greenberg (2009), as well as Sutton and Wheatly (2003), reveal the close relationship between a teacher's socioemotional competencies and effectiveness/quality during teaching-learning processes, as well as the development of students' prosocial behaviour in the classroom. Di Fabio and Pazazzeschi (2008) evaluate the relationship between emotional intelligence and self-efficacy in a sample of Italian professors. Chan (2008) carries out a similar study to consider the relationships between the emotional intelligence, self-efficacy and ability to cope of teachers in Hong Kong. In Spain, the study on perceived emotional intelligence and life satisfaction among university teachers carried out by Landa, López-Zafra, Martínez, and Pulido (2006) is worth mentioning.

Weare and Grey (2003) conclude with recommendations for teacher-training organisations to explicitly develop personal and socioemotional competencies, based on the premises that it is impossible either to teach a competency one does not possess or to offer quality teaching in the absence of personal wellbeing.

Given the above, the specific objectives of this project are: a)

to develop a predictive model that includes traits related to intelligence, personality, emotional intelligence and knowledge/academic achievement as explanatory variables for the labour integration of university graduates from Departments of Education; b) to evaluate the predictive value of non-intellectual factors, personality and emotional intelligence in predicting labour integration once the effect of intellectual variables, such as intelligence and academic performance, are controlled; and c) to establish implications for developing personal and emotional competencies within university syllabi in the European Higher Education Area.

Method

Participants

The initial sample consisted of 118 undergraduates studying for a degree (Teaching in Preschool, Primary and Secondary Education) at the Department of Education of the University of Alicante, Spain. The students ranged in age from 20 to 35, with a mean age of 22.61 years. Males represented 26.2% and females 73.8% of the sample.

Instruments

The following instruments were used to assess the variables analysed in this study.

The *test of g factor Scale 3* by Cattell and Cattell, for group-administered testing, composed of 4 subtests which include incomplete and progressive series for testing cognitive abilities of identification, perceived similarities, seriation, classification, matrices and comparisons, was used to obtain the IQs of all the participants sampled. G-factor saturation was high, around 0.90.

The *NEO Five-Factor Inventory (NEO-FFI)* by Costa and McCrae (1992), Spanish language adaptation by TEA Ediciones in 2002. This instrument evaluates five major personality factors and offers an abridged version for measuring the following dimensions: Neuroticism, Extraversion, Openness to experience, Agreeableness, and Conscientiousness or Responsibility. The test is composed of 60 items with response options ranging from A (Strongly Disagree) to E (Strongly Agree). Reliability of internal consistency in the development and validation of the questionnaire is shown by values ranging between .86 and .95, with test-retest reliability values ranging between .70 and .92 for the Spanish sample, in addition to factorial validity.

The *Trait Meta-Mood Scale-24* (TMMS-24) is a version of TMMS-48 (developed by Salovey and Mayer) adapted and shortened by Fernández-Berrocal, Extremera and Ramos (2004). This self-report measure assesses three key dimensions of emotional intelligence: emotional attention, emotional clarity, and repair/emotional control. The subjects were asked to evaluate the degree to which they agreed with each item on a Likert-type scale of 5 points (1 = Strongly Disagree, 5 = Strongly Agree). After having been shortened, the scale showed increased reliability in all of its factors: Attention (.90), Clarity (.90), and Repair/Control (.86).

The *Self Report Inventory* (SSRI) from Schutte et al. (1998) adapted by Chico (1999), who evaluated the scale's psychometric properties and concluded that these were adequate. This Likert-type scale (1= Strongly Disagree; 5= Strongly Agree) is composed of 33 items, 13 of which refer to the *appraisal and expression* of emotions, 10 to the *regulation* of emotions, and the remaining 10 to the *utilisation* of emotional information. Therefore, this test includes the three factors proposed by Mayer and Salovey in 1990.

For the variable of academic performance, average grades obtained during university studies expressed in a scale of 1 to 10 points were used. The University of Alicante provided information these grades upon prior consent granted by the participants and authorisation given by the university academic authority.

In order to gather information on employment, the participants completed a questionnaire on whether they were employed or unemployed and the number of months they had been employed since graduation.

Procedure

Data collection was executed in two phases. The first phase was carried out when the participants were in their final year of university studies, and the second phase was conducted two years after the participants had completed their studies.

During the first phase, participants were selected using a stratified random sampling process proportional to the number of students enrolled in the aforementioned degree courses. The study was carried out with a representative sample of students in their final year of their degree. Upon completion of the selection procedure, the chosen scales were applied. The scales were distributed in class during the academic year, according to the instructions given in their corresponding

manuals. Students were given approximately two hours to complete the scales during a single session. Scale administration was carried out using the following procedure: first, a presentation letter was distributed and an oral presentation of research objectives was given. The participants gave their written consent and committed to facilitating the information required for the study. Then, the different questionnaires were administered in the following order: Cattell test of g factor, NEO-FFI, TMMS-24 and SSRI. The participants' grades were obtained once the academic year had finished.

During the second phase, information on participants' employment was collected via a questionnaire sent both by email and by post.

Design and data analysis

Correlation and multiple regression techniques were used to analyse the data, using the hierarchical regression procedure.

A series of multiple regression analyses were performed, using the number of months employed as a criterion in order to ascertain the predictive value of the variables concerning labour integration considered in the project (analysed in accordance with data regarding the number of months employed since graduation). In this type of analysis, the variables that are first entered into the equation are attributed with all of the variance. Thus, the variables that are entered first act as covariants of those which are subsequently included. In this way, the effect of the first on the second may be partitioned. The only variable that can contribute on its own to the explanation of the criterion is the last one to be introduced. Thus, an overestimation of the predictive value of variables entering the equation first is obtained, which is why the decision to initially introduce certain variables before others was made on a theoretical basis.

Apart from the possibility of examining the unique contribution of the variables or groups of variables subsequently introduced into the equation through a hierarchical regression analysis, it is possible to detect whether there is a significant increase in the explained variance of the criterion each time a variable, or block of variables, is inserted into the equation.

Data analysis was completed using the SPSS Version 18 statistical package licensed to the University of Alicante.

Results

Results of the correlation analysis

Table 1 shows existing correlations between the different variables included in the study.

As expected, emotional factors correlate with one another. The neuroticism personality factor also had a significantly negative correlation with the regulation of emotions ($r = -.435$). Likewise, the extraversion personality factor also had a very significant correlation with the emotional factors of emotional clarity ($r = .432$), emotional control ($r = .366$), expression of emotions ($r = .598$), regulation of emotions ($r = .668$) and use of emotions ($r = .416$). There are also very significant correlations between the responsibility personality factor and the use of emotions ($r = .419$).

Finally, it is worth highlighting that variables having a significant correlation with the variable of labour integration are the neuroticism personality factor ($r = .296$), openness to experience ($r = .283$), and conscientiousness/responsibility ($r = .383$), as well as the factor attention to emotions ($r = .349$).

Table 1. Intercorrelations between variables

	General Intelligence	NEO- Neuroticism	NEO- Extraversion	NEO- Openness	NEO- Agreeableness	NEO- Responsibility	TMMS- Attention	TMMS- Clarity	TMMS- Repair/Control	SCHUTTE- Expression	SCHUTTE- Regulation	SCHUTTE- Utilization	Mean of Academic Achievement	Labour integration
General Intelligence	1,000													
NEO- Neuroticism	,036	1,000					(n=118)							
NEO- Extraversion	,192	-,143	1,000											
NEO- Openness	-,133	,276	,055	1,000										
NEO- Agreeableness	-,246	-,198	-,180	-,126	1,000									
NEO- Responsibility	,108	,020	,294	-,140	,077	1,000								
TMMS- Attention	-,008	,292	,050	-,106	,179	-,235	1,000							
TMMS- Clarity	-,230	-,120	,432**	,039	,152	,044	,393**	1,000						
TMMS- Repair/Control	,183	-,279	,366**	,270	,203	-,103	,216	,511**	1,000					
SCHUTTE- Expression	-,182	-,275	,598**	-,107	,327	,273	,195	,546**	,272	1,000				
SCHUTTE- Regulation	-,231	-,435**	,668**	-,054	,160	,248	,118	,668**	,494**	,714**	1,000			
SCHUTTE- Utilization	-,206	,004	,416**	,252	,213	,419*	,019	,573**	,468**	,451**	,666**	1,000		
Mean of Academic Achievement	-,005	-,064	-,259	-,028	-,160	-,143	,163	,144	,091	-,169	-,043	-,168	1,000	
Labour integration	-,052	,296	-,023	,283	-,076	,383**	,349**	,107	,108	-,033	-,139	,245	,182	1,000
Mean	25,66	33,07	44,82	42,36	44,71	45,82	25,75	26,18	28,50	58,71	43,21	28,46	6,9481	25,5862
SD	4,002	8,130	7,125	5,368	5,846	5,878	5,992	6,473	6,069	5,789	5,555	3,885	1,495	13,645

*p < .05 two-tailed

**p < .005 two-tailed

Results of the hierarchical multiple regression analysis

First, after evaluating the suppositions of the multiple regression analysis we may conclude that our data adapt to the suppositions of the multiple regression analysis. They satisfy the requirements of normality, linearity and homogeneity of variance, as well as independence of errors.

The supposition of normality underlying the multivariate distribution of the variables was verified when comparing the distribution observed of the residuals with that expected under the supposition of normality. The result was that the standardised scores of the residuals were distributed along a straight diagonal line, indicative of the normality of the joint distribution of the variables.

The suppositions of linearity and homogeneity of variance were verified by observing the scatter diagram in which the residuals were projected against the predicted values, which showed the residuals distributed at random around the centre of the diagram. Furthermore, no value is positioned outside the expected results (outlier).

The Durbin-Watson test is used to test the supposition of error independence. The value of the Durbin-Watson statistical D for our data was of 2.368, whereby we consider that this supposition is also verified.

Table 2 shows the results of the hierarchical regression analysis in which blocks of variables relating to intelligence, personality, emotional intelligence and academic achievement, as well as the variable relating to labour integration (months employed) as criterion, are introduced successively.

Table 2. Summary of the hierarchical regression analysis for variables predictive of labour integration (N = 50)

Variables		B	Std. Error	β
Step 1	General Intelligence	.191	.321	.086
Step 2	General Intelligence	.093	.303	.042
	NEO- Neuroticism	.178	.147	.160
	NEO- Extraversion	-.132	.197	-.093
	NEO- Openness	.430	.227	.249
	NEO- Agreeableness	-.178	.213	-.112
	NEO- Conscientiousness/ Responsibility	.772	.201	.502**
Step 3	General Intelligence	-.433	.537	-.194
	NEO- Neuroticism	-.289	.215	-.260
	NEO- Extraversion	.106	.304	.075
	NEO- Openness	.380	.265	.220
	NEO- Agreeableness	-.498	.258	-.314
	NEO- Responsibility	.869	.281	.565**
	TMMS- Attention	.729	.258	.463**
	TMMS- Clarity	-.150	.266	-.105
	TMMS- Repair/Control	.145	.406	.092
	SCHUTTE- Expression	.299	.314	.174
	SCHUTTE- Regulation	-1,317	.551	-.752*
	SCHUTTE- Utilisation	1.071	.602	.437
Step 4	General Intelligence	-.399	.465	-.179
	NEO- Neuroticism	-.309	.187	-.277
	NEO- Extraversion	.496	.284	.349
	NEO- Openness	.263	.232	.152
	NEO- Agreeableness	-.256	.233	-.162
	NEO- Responsibility	.629	.252	.409*
	TMMS- Attention	.617	.226	.392*
	TMMS- Clarity	-.433	.243	-.304
	TMMS- Repair/Control	-.093	.357	-.059
	SCHUTTE- Expression	.407	.274	.237
	SCHUTTE- Regulation	-1,566	.482	-.894**
	SCHUTTE- Utilisation	1,785	.556	.728**
	Mean of Academic Achievement	2.741	.749	.465**

Note. $R^2 = .007$ step 1; $\Delta R^2 = .339$ step 2; $\Delta R^2 = .160$ step 3; $\Delta R^2 = .140$ step 4 (ps < .002)

*p < .05

**p < .005

Firstly, the block of intellectual skills is entered into the equation. The contribution of this block is not significant ($F = .357$, $p = .553$). The inclusion of the second block of variables relative to the personality trait presuppose a significant increase in the explained variance ($F = 3.793$, $p = .004$). When the third step includes variables relating to emotional intelligence a significant increase of the explained variance is obtained ($F = 3.158$, $p = .004$). In the last step, when the variable of academic achievement is included a significant increase of the explained variance is, in fact, obtained ($F = 4.922$, $p = .000$).

Therefore, once the effect of the previously introduced variables has been controlled, the blocks of variables that prove to contribute most significantly to the explanation of learning processes are those measurements relating to personality traits, emotional intelligence and academic achievement.

The variables that specifically and significantly contribute to explaining the criterion are responsibility ($\beta = .409$, $p = .017$), emotional attention ($\beta = .392$, $p = .010$), regulation of emotions ($\beta = -.894$, $p = .002$) negatively correlated, the use of emotions ($\beta = .728$, $p = .003$) and average grades obtained during university studies ($\beta = .465$, $p = .001$).

Taken as a whole, these variables contribute significantly to explaining labour integration and account for 64% of the variance in the criteria.

Discussion

Given these results, variables that are significantly related to or contribute to explaining labour integration - time in months of employment - of university graduates from Departments of Education are centred upon personality-related aspects, emotional intelligence and academic performance, particularly the factors of responsibility (NEO), attention to emotions (TMMS), regulation of emotions (SSRI) negatively correlated, use of emotions (SSRI) and academic performance.

The highest percentage of the explained variance of labour integration is attributed to personal and emotional variables (50%), while general intelligence explains an insignificant percentage (.07%) and acquired knowledge - mean academic performance - does so for 14%.

Explained more clearly, university graduates in the field of education who find work earlier, i.e., have been employed longer since

graduation, have a greater sense of responsibility, pay more attention to their emotions and, despite having less control over them, they put their emotions to better use. Finally, their academic performance is higher.

Although these results reveal that professional achievement (labour integration in this case) of teachers is partially predicted or explained by technical competencies as evidenced by academic performance, greater explanatory power is attributed to emotional competencies, as revealed in other studies (Goleman, 1998; Hettich, 2000). However, contrary to the findings of different authors (Schmidt & Hunter, 1998), other factors, such as general intelligence, fail to have a significant effect.

Therefore, it seems clear that several personality-related factors and emotional intelligence are linked to professional achievement - or with an aspect of this, such as labour integration - of teachers. This provides another reason, along with the existing relationship between socioemotional competencies and efficacy in teaching (Chan, 2008; Di Fabio & Pazazzeschi, 2008; Jennings & Greenberg, 2009; Sutton & Wheatly, 2003), for teacher training institutions to foster the development of personal and socioemotional competencies (Weare & Grey, 2003).

Research is being carried out in the European Higher Education Area for the purpose of identifying key competencies for university graduates as well as the role played by these competencies in labour integration. The implementation of the Bologna Declaration of 1999 for creating the European Higher Education Area resulted in specific proposals for competency-based design and development of educational syllabi and university curricula, such as the *Tuning Educational Structures in Europe* project (González & Wagenaar, 2003), which proposes a series of generic competencies, mostly overlapping with the personal and socioemotional competencies studied under the umbrella term of socioemotional intelligence. However, the project's conclusions leave unanswered questions as to "*whether these competencies are shared or specific, how they are to be identified, how to integrate them within university curricula or foster their development in higher education*" (Gonzalez & Wagenaar, 2003, p. 40). One of the proposals presented by companies in order to transfer these results to training programmes is to integrate specific training on professional competencies and skills within courses included in university curricula. Companies and, in general, both public and private organisations, demand highly qualified professionals trained in all aspects of the individual, and the

university must be able to satisfy this need (Campos, 2008).

Another proposal centred on generic competencies is included in the 2005 DeSeCo (Definition and Selection of Competencies) Project Report, a project sponsored by the Organisation for Economic Co-operation and Development (OECD, 2005). Three main types of competencies related to the following are considered: a) the use of new technologies, b) interpersonal skills and the ability to work as a member of a group, and c) the capacity to work independently.

In 2005, the European Parliament approved a recommendation for Member States to develop a series of generic competencies in the European Higher Education Area (Education Council, 2006). These eight key competencies are considered to be essential skills, knowledge and attitudes that every European should have in order to prosper in a knowledge-based society. Of the eight key competencies, four are personal and/or socioemotional in nature: a) learning to learn; b) interpersonal, intercultural and social competencies, and civic competence; c) entrepreneurship; and d) cultural expression.

In addition, within the European Union 6th Framework Programme (FP6), the main objective of a Spanish research project entitled "The Flexible Professional in the Knowledge Society: New Demands on Higher Education in Europe" or REFLEX (ANECA, 2007), is to analyse and diagnose the labour integration of university graduates. The project's goal is to respond to a number of general questions concerning: the competencies required of university graduates for their integration into the knowledge society; the role universities play in developing these competencies; the degree to which graduate expectations are fulfilled regarding employment and ways to resolve the imbalance between graduate expectations and the characteristics of their jobs.

Therefore, it is necessary to make progress towards new proposals for integrating and developing these competencies in the higher education curricula, such as those put forward in the book edited by Fallows and Steven (2000), and other perspectives from the United States and Canada presented by Boyatzis, Cowen, and Kolb (1995) and Boyatzis, Wheeler and Wright (2001). Moreover, some current study plans and university curricula implement these competencies, such as several Australian universities (Nunan, George & McCausland, 2000), the American Harvard Business School (Jaeger, 2003; Prahalad & Hamel, 1990) or the English Sheffield Hallam University, to name a few.

Despite the importance given to emotional intelligence in the

educational context for developing the professional activity of teachers, very few syllabi actually focus on teacher training. Numerous researchers have pointed out the need for even basic teacher training to include the development of emotional intelligence as part of the generic competencies proposed by the European Higher Education Area (Bisquerra, 2005; Bueno, Teruel & Valero, 2005; Extremera & Fernández-Berrocal, 2004; Pesquero, Sánchez, González & Martín, 2008; Teruel, 2000). Despite clear evidence, in some cases, that training novice teachers in emotional competencies has proven to be effective not only in increasing their own emotional competencies but also for predicting a smooth transition from their role as a student to that of a professional teacher (Byron, 2001), specific proposals are still needed as to how to include these competencies in teacher education. Pug's (2008) study conducted in a primary school concludes that higher education programmes and partner schools would benefit from time, curriculum provision and government agency support to recognise, reflect upon and develop emotional intelligence in teaching.

Specific emotional knowledge and skills should become part of the teacher education curriculum to better prepare pre-service teachers in the affective domain (Kassem, 2002). Cohen (2001) suggests that teacher education program need address: 1. the role of emotion in learning and in creating; 2. emotional "decoding" skills; and 3. ways of use decoding emotions to solve real-life, social-emotional problems. Methods for implementing socio-emotional curriculum in teacher education fall along a continuum. Curriculum changes could be implemented by the addition of standalone courses on socio-emotional content or by the integration of emotional components into the current curriculum, through the use of such common tools as case studies and cooperative learning. Cohen's (2001) compilation of practices in the United States provides research evidence regarding certain successful methods.

Some recommendations for developing these competencies in higher educational programmes are referenced to competencies proposed in the Tuning project (González & Wagenaar, 2003), which to a great extent have been adopted in the European Higher Education Area, most of which are upheld by the DeSeCo Project (OECD, 2005) as well as the European Education Council (2006). For example, academics could introduce teamwork (Koman & Wolff, 2008) to help students develop interpersonal relationships with other group members, along with self-awareness and their capacity to empathise with others.

The ability for criticism and self-criticism may be developed through immediate and accurate feedback given by the teacher on one's projects (homework, examinations, etc.). The skill for working autonomously may be fostered through independent tasks that require informational searches while laying the foundations for lifelong learning. Practicums outside of the academic realm, carried out in businesses or organisations - such as those which students complete in educational centres - may strengthen the integration of knowledge, the application of knowledge in practice, interpersonal relations, initiative, assertiveness, adaptation to new situations, etc. The ability to deal with differences and contradictions is found in many of the educational sector's lists of key competencies. A complex world demands that we do not necessarily dash towards a single answer or an either/or solution, but rather favour creativity in managing tensions inherent to the diversity of circumstances.

Finally, our study generated some unexpected results that deserve more attention: firstly, the negative correlation that exists between emotional regulation and employability, which is difficult to explain in this context, unless it is taken to mean that emotional regulation implies the existence of negative emotions which might not be present in the most employable graduates. Meanwhile, the use of one's own emotions is seen to be positive; secondly, the low correlation of academic achievement with employability that may be explained by the fact that technical knowledge - represented by academic performance - plays a lesser role during initial employment when compared with professional teaching experience; and thirdly, the no correlation of intelligence with academic achievement, also detected in studies on engineering graduates (Pérez & Castejón, 2007), that may be explained by the effect of the restricted range of intellectual capacity of a selected sample of university graduates, where levels are expected to be mid to high. Alternately, this may also be attributed to the inability of academic performance-related criteria to reflect deeper aspects of thinking or intellectual capacity, at least within the scope of university teacher training, which would be even more problematic.

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