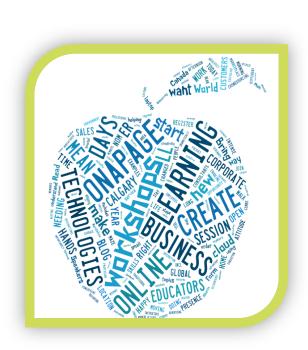
ReFEEHS Survey Teaching competencies development





Contents

Background 2
TCD survey aims and methodology 3
Teaching competencies development: current requirements within ReFEEHS consortium4
Academic staff practices, experiences, needs, attitudes and beliefs related to teaching competencies development 6
Academic staff practices and experiences related to teaching competencies development
Academic staff needs related to teaching competencies development 9
Academic staff attitudes and beliefs related to teaching competencies development 11
Recommendations for improvement 16
References 17
Supplementary materials . Error! Bookmark not defined.



Background

The importance of teaching competencies development of academic staff and teacher practitioners involved in health professions education is well recognized. It is a foundation for the development of the culture of effective teaching and learning, and driving force for transformation of health professions education in line with the emerging demands in healthcare and rapidly changing professional roles. Competencies purposed within frameworks of teaching competencies for healthcare professions education have been interpreted as "integration of knowledge, skills and attitude and described as behaviour in specific context", while several following have been suggested as crucial: (1) medical (or content) knowledge, (2) learner-centeredness, (3) interpersonal and communication skills, (4) professionalism and role modeling, (5) practice-based reflection, and (6) systems-based practice (1-3). In order to fulfill purposed competencies, professional development of healthcare professions educators is crucial, while their main professional development needs is necessary to explore continually.

As support to professional development of healthcare professions educators, a number of specific guidelines related to teaching, learning and assessment for medical teachers have been developed, dominantly by the International Association for Medical Education (AMEE), and different study programs — short thematic courses, postgraduate certificate, diploma, and master programs have been established, mostly in the United Kingdom. However, such programs specifically tailored for teaching staff involved in healthcare professions education are still missing in most EU countries.

Healthcare professions education in Serbia is struggling to keep up with global developments. Teaching competencies development of academic staff and teacher practitioners involved in healthcare professions education, including introduction of Teaching Certificate in Health Professions Education study programme, was one of the principal goals of the Erasmus+ project "Reinforcement of the Framework for Experiential Education in Healthcare in Serbia" (ReFEEHS) co-funded by the Education, Audiovisual and Culture Executive Agency of the European Union within the Erasmus+ Capacity Building in Higher Education Program (http://refeehs.com/).

TCD survey aims and methodology

The survey has been conducted with the following aims:

- ✓ To explore current teaching competencies requirements for promotion as academic staff at institutions, participants of the ReFEEHS consortium
- ✓ To explore academic staff practices and experiences, needs, attitudes and beleifes related to pedagogical activities and teaching competencies development

The survey have been conducted among Erasmus+ ReFEEHS consortium Erasmus+ ReFEEHS consortium which consists of eight universities, four from the Republic of Serbia, a four EU universities, as follows:

- University of Belgrade (project coordinator), Serbia
- University of Kragujevac, Serbia
- University of Niš, Serbia
- University of Novi Sad), Serbia
- University of Dublin (Trinity College Dublin), Ireland
- Medical University Sofia, Bulgaria
- University of Lisbon Faculty of Pharmacy, Portugal
- University of Pecs, Hungary

Contact persons have been asked to complete the questionnaire related to teaching competencies requirements/criteria for promotion at their institutions, in line with the first aim of the survey. Online, anonymous questionnaire has been developed in line with the second aim of the survey and. This questionnaire has been distributed among academic staff employed at the schools of Medicine, Dental Medicine, Nursing and Pharmacy at the eight higher education institutions, members of the ReFEEHS consortium.

Teaching competencies development: current requirements within ReFEEHS consortium

Evaluation of teaching competencies and pedagogical activities is one of mandatory requirement for teacher appointment at all universities participants of Erasmus+ Refeehs consortium, excepted Medical University Sofia. By reviewing actual criteria for promotion as academic staff, several pedagogical criteria have been reviled among Refeehs consortium participants.

In line with Regulation on Minimal Criteria for Promotion at Universities in Republic of Serbia and the National Council for Higher Education recommendations, the following teaching competencies criteria have been purposed as obligatory:

- ✓ positive grade of introductory lecture (obligated criteria for the first appointment as university teacher)
- ✓ positive assessment of pedagogical work within students' surveys.
- ✓ (promotion as associate or full professor) preparing of learning literature (book, workbook, tutorial, monograph)
- ✓ (promotion as full professor) experience in work with students
- ✓ (promotion as full professor) participation in at least three undergraduate (master) or postgraduate students' thesis committee
- ✓ (promotion as full professor) mentor of PhD thesis

Universities in Republic of Serbia, participants of the ReFEEHS consortium, have introduced purposed criteria. Moreover, some institutions have recommended several additional alternative criteria: creating of teaching materials (demonstrating case studies, etc.), preparation and/or handling of the curriculum or study programme; leading of department; active participation/organization of clinical meetings or journal clubs; managing the work of associates in teaching (assistants, interns, specialists); mentoring of students' research work; tutorial work with students (Appendix 1).

Positive assessment of pedagogical work within students' surveys has also been introduced as criteria for academic promotion at University of Dublin (Trinity College

Dublin), and University of Lisbon – Faculty of Pharmacy. However, it was not the case with positive grade of introductory lecture. On the contrary to criteria in Republic of Serbia, focus of teaching competencies criteria for promotion at EU institutions is directed to (Appendix 1):

- ✓ innovations in existing programmes ("Introduced innovations of significance in existing programmes", "Innovation in pedagogy, namely e-learning course or activities")
- ✓ improvement of teaching quality ("Commitment to enhancing the teaching quality", "Dedication and quality of the professional activities related to teaching")

Academic staff practices, experiences, needs, attitudes and beliefs related to teaching competencies development

In total, 104 academic staff members (75 from RS and 29 from EU) participated in the study. Socio-demographic data and work experience of survey participants are presented in Table 1.

Table 1. Socio-demographic data and work experience of the study population, N=104

	%
Gender	
Male	31.7
Female	68.3
Academic position	
Full professor	26.0
Associate professor	19.2
Assistant professor	54.8
	x±SD
Age	47.66±8.29
Years of work experience	22.63±8.57
Years of teaching experience	14.79±9.63
Teaching hours per week	6.87±2.99
Preparation hours per week	6.19±2.92
Administration hours per week	4.96±3.04

Abbreviation: SD- Standard Deviation

Academic staff practices and experiences related to teaching competencies development

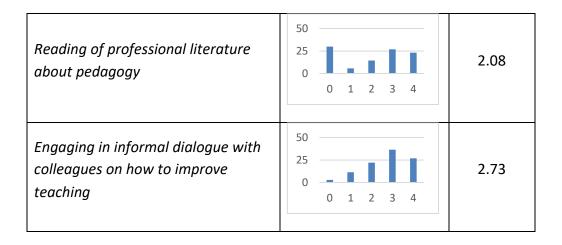
Participation in different educational activities related to pedagogical improvement has been studies (Table 2). Formal qualification (degree, diploma, certificate), supervised/peer-assessed teaching process, and participation in research project concerning pedagogy were revealed as educational activities where the highest proportion of participants did not take part, 71, 63.5, and 53.8%, respectively. On the contrary, the highest number has participated in courses/workshops with education related topics, 66.3%. Majority of participants have been engaged in informal activities like dialogue with colleagues on how to improve teaching (95.6%), while more than two third, 68.4%, reeds professional literature about pedagogy (Table 2).

There were no significant differences between RS and EU academic staff in participation in different educational activities related to pedagogical improvement, with exception of conferences/symposia which were significantly more visited by EU academic staff in comparison to RS colleagues (72.4% vs. 48.0%, respectively) (Appendix 2).

Activities estimated by RS academic staff members as those with the largest impact on participants' development as a teacher were informal dialogue with colleagues on how to improve teaching (28.0%), reading of professional literature about pedagogy (28.0%), and study visit to other higher education institution (24.0%), while EU participants highlighted courses/workshops with education-related topics (34.5%), participation in research project concerning pedagogy (27.6%), informal dialogue with colleagues on how to improve teaching (24.1%), and conferences/symposia concerning education (22.6%) (Appendix 2).

Table 2. Participation in activities related to pedagogical knowledge and skills improvement, and the impact of these activities at development as a teacher (Likert scale: 0-Did not attend; 1-Yes, with no impact; 2-Yes, with small impact; 3-Yes, with moderate impact; 4-Yes, with large impact)

Statement	Likert scale, %	Mean					
Formal activities							
Courses/Workshops with education related topics	50 25 0 0 1 2 3 4	1.97					
Conferences/symposia concerning education	50 25 0 0 1 2 3 4	1.52					
Formal qualification (degree, diploma, certificate)	80 40 0 1 2 3 4	0.72					
Study visit to other higher education institution	50 25 0 1 2 3 4	1.59					
Participation in research project concerning pedagogy	60 30 0 1 2 3 4	1.42					
Supervised/Peer-assessed teaching process	80 40 0 1 2 3 4	0.93					
Informal	activities						



Academic staff needs related to teaching competencies development

Several educational need have been evaluated within the survey, and the results are presented in Table 3. For majority of surveyed needc, moderate and high level of need has been reviled, excepted student discipline and behavior problems, and administration, documentation and student management. However, significant differences between RS and EU participants were evident. In direct between groups comparison, RS academic staff has shown significantly more need for education related to drawing up the content and delivering of theoretical and practical classes, and student assessment, while EU academic staff has shown significantly more need for design, planning and implementation of a lesson or course, and lower need for large group (classroom) management (Appendix 3). The following needs have been estimated as those with "high level of need" by the peak proportion of RS participants: teaching students with special learning needs (36.1%), student assessment (31.3%), instructional design - design, planning and implementation of a lesson/course (28.9%), and large group (classroom) management (26.5%), while EU participants highlighted only teaching students with special learning needs (35.5%) (Appendix 3).

Table 3. Teachers' professional development needs (Likert scale: 1- No need at all; 2-Low level of need; 3- Moderate level of need; 4- High level of need)

Professional development need	Likert scale, %	Mean
Drawing up the content and delivering theory classes	50 25 0 1 2 3 4	2.68
Drawing up the content and delivering practical classes	50 25 0 1 2 3 4	2.59
Student assessment	50 25 0 1 2 3 4	2.82
Large group (classroom) management	50 25 0 1 2 3 4	2.70
Instructional design - design, planning and implementation of a lesson/course	50 25 0 1 2 3 4	2.75
ICT skills in teaching	50 25 0 1 2 3 4	2.74
Teaching students with special learning needs	50 25 0 1 2 3 4	2.88

Student discipline and behavior problems	50 25 0 1 2 3 4	2.18
Administration, documentation and student management	50 25 0 1 2 3 4	2.28
Student counselling/guidance	50 25 0 1 2 3 4	2.64

Academic staff attitudes and beliefs related to teaching competencies development

By exploring academic staff attitudes and beliefs, all surveyed statements which have stated behaviours related to teaching and learning in a positive manner, were estimated with a very high level of agreement by participants, with the mean score of the Likert scale above 4 (Table 4). However, statements scored with the mean score of the Likert scale bellow 4 were those which stated negative aspects of teaching and learning, like "lessons or topics covered in course are not appropriate for students 'level of knowledge" or "are completely unrelated" and "Lessons and materials used during the course are not well linked with the previous students' knowledge or skills".

Such responses may indicate non-critical self-evaluation. However, the limitation of the study could be the study sample which is composed of low number, but of very motivated academic staff with high intrinsic motivation for teaching and learning improvements. Accordingly, results of the survey have to be interpreted with stated limitations in mind.

Table 4. Attitudes and beliefs on teaching and learning (Likert scale: 1- Strongly disagree; 2- Disagree; 3- Neither agree nor disagree; 4- Agree; 5- Strongly agree)

Statement	Likert scale, %	Mean
My main role as a teacher is to transmit knowledge to the students	60 40 20 0 1 2 3 4 5	4.08
My main role as a teacher is to facilitate students' learning	60 40 20 0 1 2 3 4 5	4.52
I think that some lessons or topics covered in course are not appropriate for students "level of knowledge"	60 40 20 0 1 2 3 4 5	3.33
I think that different topics or lessons covered in course/curricula are completely unrelated	60 40 20 0 1 2 3 4 5	3.33
Lessons and materials used during the course are not well linked with the previous students' knowledge or skills	60 40 20 0 1 2 3 4 5	2.86
I clearly state outcomes and objectives of the lesson or course	60 40 20 0 1 2 3 4 5	4.37
I clearly inform students of the competencies they will be expected to acquire	60 40 20 0 1 2 3 4 5	4.20

I present the lesson content following a clear and logical framework	60 40 20 0 1 2 3 4 5	4.38
The content of the lesson is tailored to the students' knowledge and needs	60 40 20 0 1 2 3 4 5	4.19
I respond clearly to the students' questions and comments	1 2 3 4 5	4.55
I'm available for students' questions and comments (consultation, e-mail)	60 40 20 0 1 2 3 4 5	4.62
I provide useful information for the future professional development of student	60 40 20 0 1 2 3 4 5	4.40
I encourage student interest in learning and fulfilment of the teaching requirements	60 40 20 0 1 2 3 4 5	4.34
I foster critical thinking and spirit in students	60 40 20 0 1 2 3 4 5	4.45
I support discussion among students	1 2 3 4 5	4.45

I support student individual work	60 40 20 0 1 2 3 4 5	4.28
I encourage teamwork among students	60 40 20 0 1 2 3 4 5	4.33
I foster student interest in research	60 40 20 0 1 2 3 4 5	4.31
I interweave the content of the subject matter with other courses	1 2 3 4 5	4.41
I use teaching methods and materials that foster student learning (e.g. video materials, clinical problems, simulators)	60 40 20 0 1 2 3 4 5	4.15
I have realistic expectations regarding the students' knowledge and skills acquired within the course	60 40 20 0 1 2 3 4 5	4.22
The assessment clearly incorporates the stated objectives and outcomes of the course	60 40 20 0 1 2 3 4 5	4.24
In order to pass the course, student mainly need to memorize materials	60 40 20 0 1 2 3 4 5	3.23

I think I provide feedback during the assessment	60 40 20 0 1 2 3 4 5	4.11
I objectively assess student's knowledge	60 40 20 0 1 2 3 4 5	4.27
I maintain professional position during the classes and in communication with students	60 40 20 0 1 2 3 4 5	4.41
I obey ethical principles during the classes and in communication with students	60 40 20 0 1 2 3 4 5	4.53
I efficiently incorporate and employ ICT (information and communication technologies)	60 40 20 0 1 2 3 4 5	4.17
I think that problem- based learning (to certain extent self-directed learning) is the easiest way for student to acquire knowledge	St., Ois., Noi., Vel., St.,	4.24

Recommendations for improvement

In line with the main results of the surevy, it could be conculded and reccomened the following towards improvemets in teaching and learning of healthcare profession education:

- ✓ involvement of criteria "innovations in existing programs" and "improvement of teaching quality" as evaluated criteria for academic staff promotion
- ✓ Increase of academic staff participation in formal activities related to teaching competencies development particularly in formal qualification (degree, diploma, certificate), supervised/peer-assessed teaching process, research project concerning pedagogy, as well as in conferences/symposia with pedagogy related topics.
- ✓ In line with reviled high level of need for additional education related to many aspects of teaching, learning and assessment, programs of continuing professional development of academic staff involved in healthcare professions education is necessary. Such programs in RS have to be primarily directed to teaching students with special learning needs, student assessment, instructional design design, planning and implementation of a lesson/course, and large group (classroom) management.
- ✓ Positive attitudes and believes of study sample have identified group of academicians with very strong intrinsic motivation for teaching and learning improvements, but the low number of study participants may indicate the absence of such motivation in the majority of academic staff people. Accordingly, the importance of teaching competencies development as a foundation for the development of the culture of effective teaching and learning, and driving force for transformation of health professions education in line with the emerging demands in healthcare and rapidly changing professional roles, have to be promoted within academic institutions.

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Appendix 1. Current requirement related to academic staff promotion at Erasmus+ ReFEEHS participants institutions

INSTITUTION	Existence of official document for evaluation of pedagogical activities for teacher?	Evaluation of the pedagogical activities is one of mandatory requirement for teacher appointment	If YES, provide the name of the document(s)	Pedagogical competence 1: positive grade on pedagogical work through student survey (min good (3))	Pedagogical competence 2: positive grade on accession lecture*	Other pedagogical competencies (provide the name of the competencies)	How are evaluating competencies?
The National Council for Higher Education	YES	YES	Minimum qualifications for promotion of academic staff at the university. National Council for Higher Education 2015 & 2016	YES	YES	/	/
University of Belgrade (UB)	YES	YES	Criteria on promotion of academic staff at University of Belgrade, 2015	YES	YES	/	/
Faculty of Pharmacy (FP)	YES	YES	Statute book, Faculty of Pharmacy 2015; Policy on criteria for promotion of academic staff at the Faculty of Pharmacy, 2018	YES	YES	Obligated criteria for promotion as associate or full professor: preparing of learning literature (book, workbook, tutorial, monograph); mentoring of undergraduate students' thesis; mentoring of postgraduate students' thesis or participation in postgraduate students' thesis committee;	Academic Promotions Committee

ReFEEHS TCD survey

Faculty of Medicine (FM)	YES	YES	Statute book Faculty of Medicine, 2016; Policy on criteria for promotion of academic staff at the Faculty of Medicine - University of Belgrade 2018	YES	YES	Obligated criteria for promotion as associate or full professor: preparing of learning literature (book, workbook, tutorial, monograph); mentoring of undergraduate students' thesis; mentoring of postgraduate students' thesis or participation in postgraduate students' thesis committee;	Academic Promotions Committee
Faculty of Dental Medicine (FDM)	YES	YES	Statute book Faculty of Dental Medicine 2009; Policy on employment and promotion of academic staff at the University of Belgrade	YES	YES	Obligated criteria for promotion as associate or full professor: preparing of learning literature (book, workbook, tutorial, monograph); mentoring of undergraduate students' thesis; mentoring of postgraduate students' thesis or participation in postgraduate students' thesis committee;	Academic Promotions Committee
University of Kragujevac	YES	YES	Policy on employment and promotion of academic staff at the University of Kragujevac, 2017	YES	YES	Obligated criteria for promotion as associate or full professor: preparing of learning literature (book, workbook, tutorial, monograph), creation of students assignments; Alternative criteria: creating of teaching materials (demonstrating case studies, etc.), preparation and/or handling of the curriculum or study programmr; leading of department; active participation/organisation of clinical meetings or journal clubs; managing the work of associates in teaching, assistants, interns, specialists; mentoring of students' research work; tutorial work with students	Academic Promotions Committee

ReFEEHS TCD survey

Faculty of Medicine	YES	YES	Policy on employment and promotion of academic staff at the University of Kragujevac, 2018	YES	YES	Obligated criteria: preparing of learning literature (book, workbook, tutorial, monograph), creation of students assignments; Alternative criteria: creating of teaching materials (demonstrating case studies, etc.), development and/or handling of the curriculum or study programme; leading of department; active participation/organization of clinical meetings or journal clubs; managing the work of associates in teaching, assistants, interns, specialists; mentoring of students' research work; tutorial work with students	Academic Promotions Committee
University of Novi Sad (UNS)	YES	YES	Statute book UNS 2012; Rules on criteria for promotion of teachers at the UNS 2013	YES	YES	Obligated criteria for promotion as associate or full professor: preparing of learning literature (book, workbook, tutorial, monograph): mentoring of undergraduate students' thesis; mentoring of postgraduate students' thesis or participation in postgraduate students' thesis committee	Academic Promotions Committee
University of Niš (UNI)	YES	YES	Statute book UNI 2014. Glasnik UNI 8/14; Guidance on criteria for teachers 2015	YES	YES	Obligated criteria for promotion as associate or full professor: preparing of learning literature (book, workbook, tutorial, monograph): mentoring of undergraduate students' thesis; mentoring of postgraduate students' thesis or participation in postgraduate students' thesis committee	Academic Promotions Committee
Trinity College, University of Dublin	YES	YES	Consolidated Statutes of Trinity College, Dublin and of the University of Dublin, 2010; Procedures for Advancement; Guidance on Criteria	YES	NO	"Developed successful teaching programmes"; "Introduced innovations of significance in existing programmes"; "Commitment to enhancing the teaching quality"	Academic Promotions Committee

Medical University Sofia	NO	NO	/	/	/	/	/
Faculty of Pharmacy, University of Lisbon	YES	YES	Estuato da Carreira Docente Universitaria (ECDU) 2010; Estatutos da UL; Regulamento da UL em matéria de concursos da carreira docente	YES	YES	"Developed teaching function"; "Innovation in pedagogy, namely e-learning course or activities"; "Dedication and quality of the professional activities related to teaching"	Academic Promotions Committee
University of Pecs	NO	YES	Year 2011. CCIV. Law on the national higher education	NO	NO	/	/

Appendix 2. Differences between RS and EU academic staff participation in activities related to pedagogical knowledge and skills improvement, and the impact of these activities at development as a teacher

	No	Yes, with no impact	Yes, with small impact	Yes, with moderat e impact	Yes, with large impact		
Courses/Worksho	Courses/Workshops with education-related topics						
RS	37.3	7.2	9.6	28.9	16.9		
EU	25.8	3.2	16.1	19.4	35.5		
Total	34.2	6.1	11.4	26.3	21.9		
Conferences/symp	osia concer	ning educati	on				
RS	50.6	4.8	9.6	24.1	10.8		
EU	29.0	9.7	25.8	12.9	22.6		
Total	44.7	6.1	14.0	21.1	14.0		
Formal qualification (degree, diploma, certificate)							
RS	72.3	6.0	7.2	8.4	6.0		
EU	67.7	3.2	9.7	6.5	12.9		
Total	71.1	5.3	7.9	7.9	7.9		
Study visit to other higher education institution							
RS	55.4	3.6	7.2	12.0	21.7		
EU	45.2	3.2	9.7	22.6	19.4		
Total	52.6	3.5	7.9	14.9	21.1		
Participation in research project concerning pedagogy							
RS	56.6	2.4	9.6	16.9	14.5		
EU	54.8	0	12.9	6.5	25.8		
Total	56.1	1.8	10.5	14.0	17.5		
Supervised/Peer-assessed teaching process							
RS	66.3	10.8	2.4	9.6	10.8		
	l				l		

EU	54.8	6.5	16.1	12.9	9.7		
Total	63.2	9.6	6.1	10.5	10.5		
Reading of professional literature about pedagogy							
RS	27.7	6.0	15.7	24.1	26.5		
EU	41.9	3.2	16.1	29.0	9.7		
Total	31.6	5.3	15.8	25.4	21.9		
Engaging in informal dialogue with colleagues on how to improve teaching							
RS	3.6	7.2	19.3	41.0	28.9		
EU	6.5	19.4	25.8	22.6	25.8		
Total	4.4	10.5	21.1	36.0	28.1		

Appendix 3. Differences between RS and EU academic staff professional development needs

	No need at all	Low level of need	Moderate level of need	High level of need				
Drawing up the content and delivering theory classes								
RS	7.2	16.9	51.8	24.1				
EU	16.1	51.6	22.6	9.7				
Total	9.6	26.3	43.9	20.2				
Drawing up the cont	tent and deliverin	ng practical clas	rses					
RS	13.3	20.5	45.8	20.5				
EU	19.4	45.2	22.6	12.9				
Total	14.9	27.2	39.5	18.4				
Student assessment								
RS	8.4	15.7	44.6	31.3				
EU	6.5	54.8	25.8	12.9				
Total	7.9	26.3	39.5	26.3				
Large group (classre	Large group (classroom) management							
RS	14.5	20.5	38.6	26.5				
EU	3.2	48.4	35.5	12.9				
Total	11.4	28.1	37.7	22.8				
Instructional design - design, planning and implementation of a lesson/course								
RS	12.0	27.7	31.3	28.9				
EU	9.7	22.6	54.8	12.9				
Total	11.4	26.3	37.7	24.6				
ICT skills in teaching								
RS	10.8	19.3	49.4	20.5				
EU	12.9	35.5	38.7	12.9				

Total	11.4	23.7	46.5	18.4			
Teaching students with special learning needs							
RS	12.0	19.3	32.5	36.1			
EU	19.4	25.8	19.4	35.5			
Total	14.0	21.1	28.9	36.0			
Student discipline an	d behaviour pro	blems					
RS	26.5	41.0	20.5	12.0			
EU	29.0	35.5	19.4	16.1			
Total	27.2	39.5	20.2	13.2			
Administration, documentation and student management							
RS	22.9	41.0	24.1	12.0			
EU	25.8	35.5	35.5	3.2			
Total	23.7	39.5	27.2	9.6			
Student counseling/guidance							
RS	15.7	25.3	37.3	21.7			
EU	12.9	32.3	38.7	16.1			
Total	14.9	27.2	37.7	20.2			