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Dokuz Eylul University Graduate School of Health Sciences: Does It Meet

The Basic Standards of ORPHEUS/AMSE/WFME? A Self-Evaluation

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Abstract: The mission of doctoral education in Dokuz Eylül University (DEU) is to train independent researchers, capable of transferring their knowledge and skills to different environments, globally. DEU is reknown, in Turkey and abroad, for its reforms in doctoral education. The university has made intensive efforts to collaborate with international organizations involving doctoral education. For evaluation, the self-evaluation questionnaire was used to test compliance to the Standards for PhD programmes and the level of a PhD degree in biomedicine and health sciences prepared by ORPHEUS, the Association of Medical Schools in Europe (AMSE), and the World Federation for Medical Education (WFME). It is observed that the Graduate school meets the majority of these standards. The graduate school is strong in the definition and transparency of the main procedures of PhD training, the guidelines of which are developed by the Higher Education Commission (YOK) act in Ankara. Some of the points which need amendment and/or further progress, on the basis of this evaluation are; the supervisor should not be a formal member of the thesis jury, the number of credited formal courses need to be reduced and the equivalence of the thesis to 3–4 in extenso international papers should be more clearly defined.

Key words: PhD, education, Turkey, Orpheus, basic standards

1. Introduction

The mission of doctoral education in Dokuz Eylül University is to train independent researchers, capable of transferring their knowledge and skills to different environments, globally. Dokuz Eylül University (Izmir) is one of the largest universities in Turkey, both with respect to undergraduate and graduate education. All institutional programmes have been adapted to the Bologna process, and the University has received the Bologna label. Dokuz Eylül University is reknown, in Turkey and abroad, for its reforms in doctoral education. The university has made intensive efforts to collaborate with international organizations involving doctoral education: The Graduate School of Health Sciences has been a member of ORPHEUS (Organization for PhD Education in Biomedicine and Health

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Sciences in the European System) since 2007; the University, besides being a member of the EUA, is also among the five institutional members of the EUA-CDE (since 2008). Dokuz Eylül University is also represented in the FRINDOC project (EU Project for Internationalization of Doctoral Training).

In its efforts to develop the quality of its PhD training, the Graduate School of Health Sciences has undertaken a self-evaluation to determine the extent to which it fulfils the requirements of ORPHEUS/AMSE/WFME PhD Standards.

2. Method

For evaluation, the self-evaluation questonnaire which was prepared by the ORPHEUS the Association of Medical Schools in Europe (AMSE), and the World Federation for Medical Education (WFME) standarts document was used. The document proposed a set of standards for PhD programmes and the level of a PhD degree in biomedicine and health sciences. Self-evaluation questionnaire requested to complete about 60 items. The standards are about research environment, outcomes, admission policy and criteria, PhD training programme, supervision, PhD thesis, assessment and structure. For each item, the completed questionnaire should provide sufficient detail to allow evaluation of the extent to which the institution appears to comply with the ORPHEUS PhD standards. About 50 words were expected for the response to each item.

3. Results

Following is the results of a self-evaluation based on the ORPHEUS/AMSE/WFME PhD Standards Document. Here is presented only the Basic Standards that should be met from the outset.

Table 1 Basic Standards

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Theme	"Basic standard"	What DEU Graduate school offers	
1. Research environment			
Strong research environment around every PhD project.		The research environment offered includes the department where the Doctoral training is pursued, the Graduate school of health sciences, the entire university, and the strong universities in the country as well as abroad, with which there are established links.	
Facilities must be compatible with the requirements of completing the PhD project		The research facilities offered depends on the specific area where the research is pursued. The Health campus offers a Research and Innovation Centre supported by a governmental grant, an R-Lab (Central Research Facility), and the departmental laboratories for research. The projects are supported by the University, as well as by TUBITAK and the EU.	
Research consistent with standards	international ethical	Every research project proposal has to be firstly approved by an appropriate Ethical Committee. On Dokuz Eylül University health campus, there are three functioning Ethical Committees: Ethical Commitee for Clinical Research, Ethical Committee for Non-Invasive Research, and an Ethical Committee for Research on Laboratory Animals. These ethical committees are structured and functioning in line with the international ethical standards.	
2. Outcomes			
PhD programmes must provide students with competences to be qualified and independent researchers, according to principles of good research practice		The aim of doctoral programmes in the Graduate school of Health Sciences is to train independent researchers equipped with the scientific knowledge, methodology, and skills which are prerequisite for an established scientist. The principles of good research practice are acquired in the research environment offered, under qualified supervision and facilitated with the structured courses on core knowledge and generic skills.	

(Table 1 to be continued)

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(Table 1 continued)				
A PhD degree must also be of benefit in a career	In order to enable a career outside academic or clinical research, an array			
outside academic or clinical research (problem	of courses for generic skills are offered to the PhD candidate such as:			
solving, analysis, evaluation, technology transfer	Writing a Project Proposal, Writing a Scientific Article, Biostatistics,			
etc.)	Creative Thinking, How to Structure a Biotech Company, Principles of			
	Innovation, etc. DEU campus is hosting a technopark which presents an			
	excellent opportunity for technology transfer.			
3. Admission policy and criteria				
	PhD students are selected on a competitive and transparent process, the			
PhD students must be selected on the basis of a	guidelines of which are developed by the Higher Education Commission			
competitive and transparent process	(YOK) in Ankara. Namely, a candidate should present an MSc degree			
	(equivalent to at least one year of research) or an MD degree, either present			
	a GRE record or pass a central entrance examination organised by the			
	Higher Education Commission (YOK) (similar to GRE), present a			
	satisfactory result in an English exam (Toefl, etc) and successfully pass the departmental interview with an emphasis on the port-folio.			
Applicants for PhD programmes must have an	YES			
educational level corresponding to a master's	1EO			
degree				
Before enrolment or at clearly defined times during	YES. Before enrolment, the PhD student candidate's mastery of the project			
the programme, the institution must evaluate and	for which he/she is admitted, undergoes an assessment. At the onset, the			
approve:	supervisor needs to meet the supervision criteria. During the training			
- Scientific quality of the project	programme, there is assessment by the Thesis Committee every six			
- The likelihood that the project can result in a	months. The Committee submits a written assessment of the progress to the			
thesis of the required standard within the timeframe	Graduate school.			
- Innovation and creativity in the project				
- Qualifications of the nominated supervisors				
A PhD programme must only be initiated when the	The PhD training programme can be initiated only after the approval of the			
resources for completion are available	following: The Graduate School Council-The University Senate-Higher			
	education Commission in Ankara. The resources and the quality of the training programme are assessed.			
4. PhD training programme	training programme are assessed.			
Programmes must be based on original research,	Original research is mandatory. Courses and other scientific activities			
courses and other activities which include	support the training. The courses, workshops, etc attended by the PhD			
analytical and critical thinking	student are accepted for formal credits.			
Programmes must be performed under supervision	Supervision is done by one or two supervisors and the Supervisory			
	Committee (Thesis committee)			
Programmes must ensure that students have	In the training programme, the PhD student is introduced to ethics: a			
substantial training in ethics and responsible	course on Ethics is given with formal credits; conferences/seminars are			
conduct of research	organised on selected topics of ethics			
Programmes must have clear 3-4 year timeframe.	In the Turkish system, the normal period is four years. However, the			
Extensions should be possible but limited and	student can ask for extension under acceptable circumstances.			
exceptional.	The courses presently total to shout 120 ACTS Hawayar there is a seriest			
Programmes must include courses totalling about 30 ECTS. A substantial part must be concerned	The courses, presently total to about 120 ACTS. However, there is a project to decrease these courses, to focus more on what the specific student needs.			
with training in transferable skills	to decrease these courses, to rocus more on what the specific student needs.			
There must be arrangements that allow students to	Through the Erasmus scheme, and through other bilateral collaborations,			
perform part of their programme in another	PhD students, supported by different sources of funding, have the			
institution, national and abroad	opportunity to pass part of their training abroad.			
Programmes that are performed in parallel with	YES			
(clinical/professional) training must have the same				
time for research and course work as any other PhD				
Progress of PhD students must be continuously	The success of the students in the courses are assessed. The thesis is			
assessed throughout the PhD	assessed at regular intervals by the Thesis (Supervisory) Committee.			
5. Supervision				
Each PhD student must have a principal supervisor	Yes. Normally, the second supervisor is from a different discipline, but this			
and when relevant at least one co-supervisor to	is NOT mandatory.			
cover all aspects of the programme (Toble 1 to be continued)				

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(Table 1 continued)			
The number of PhD students per supervisor must be	In the DEU Graduate School of Health Sciences, a faculty member cannot		
compatible with the supervisor's workload	supervise more than 5 PhD students		
Supervisors must be scientifically qualified and active scholars in the field concerned	Yes. The supervisor has to present proof of ongoing research project. The Research project administration department of the DEU Rector does not support projects of faculty whose former projects have not been finalised with scientific articvles published internationally.		
Supervisors must have regular consultations with their students (annotation: varies during the programme but will normally mean several times per month)	The rule is at least one formal meeting each week.		
It must be ensured that training for all supervisors and potential supervisors is available.	DEU Graduate school of Health Sciences is the only Graduate School in Turkey which has been offering Supervisor training courses since 2005.		
The supervisor-student relationship is key to a successful PhD programme. There must be mutual respect and shared responsibility	YES. The supervisor also supports the PhD student to be part of the scientific society and to plan his/her career.		
6. PhD thesis			
The PhD thesis must be the basis for evaluating if the student has acquired independent research skills and can evaluate work done by others	The PhD thesis is the basis for these assessments. The thesis contains chapters including introduction, critical literature review, full account of aim and objectives, perspectives and plan, methodology, results a thorough discussion and conclusions.		
The benchmark for the thesis must be the expected outcome from 3-4 years research. In health sciences this benchmark is equivalent of at least three <i>in extenso</i> papers in scientific peer-reviewed international journals.	In many of the cases, this is so. However, there is no clear-cut criteria that the candidate should present in <i>extenso</i> papers published in international journals.		
In addition to papers the thesis must include a full literature review and full account of aims, method, results, discussion and conclusion.	YES		
If the thesis is presented in other formats (e.g., as single monograph), the assessment committee must ensure equivalence to the above benchmark	-		
A PhD thesis in clinical medicine must meet the same standards as other PhD theses	It is mandatory that a thesis in clinical medicine, nursing, or physiotherapy meet the same standards.		
7. Assessment			
Acceptance of a PhD thesis must include acceptance of both written thesis and a subsequent oral defence	YES		
PhD degrees must be awarded by the institution on the recommendation of assessment committee who have evaluated the thesis and the oral defence	YES		
The assessment committee must consist of established and active scientists without connection to the milieu where the PhD was performed and without conflict of interest. Min. two should be from another institution	YES		
The supervisor must not be a member of the assessment committee	NOT YET		
If the assessment of the thesis/defence is negative, the student must normally be given an opportunity to rewrite/an additional defence	For a PhD thesis, a period of six months is allocated for rewriting the thesis. Additional defence is necessary.		
8. Structure			
The graduate school must have sufficient resources for proper conduct of PhD programmes. This includes resources to: Support admission of students, implement the PhD programmes of the	The graduate School conducts the PhD training programmes according to the Higher Education Act of YOK. This includes the criteria for admission, PhD training programme, and PhD thesis assessment.		
students enrolled, assess PhD theses and to award PhD degrees			

4. Discussion and Conclusions

The self-evaluation of the graduate school of Health Sciences using the ORPHEUS/AMSE/WFME standards has permitted a critical review of the basic standards. It is observed that the Graduate school meets the majority of these standards. The graduate school is strong in the definition and transparency of the main procedures of PhD training, the guidelines of which are developed by the Higher Education Commission (YOK) act in Ankara.

The points which need amendment and/or further progress, on the basis of this evaluation, are the following:

- The supervisor should Not be a formal member of the thesis jury
- The number of credited formal courses need to be reduced
- The equivalence of the thesis to 3-4 *in extenso* international papers should be more clearly defined.

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