

General description

Programme title	The Ph.D. study in biophysics	
Research area	Interdisciplinary sciences: natural, biomedical and biotechnological	
Institutions	Proposed by	University of Split, Faculty of Science
	Participating institutions	<p>Faculty of Science (PMFST), University of Split</p> <p>Ruđer Bošković Institute (IRB), Zagreb</p> <p>Institute of Physics (IF), Zagreb</p> <p>Medical School (MEFST), University of Split</p> <p>Mediterranean Institute for Life Sciences (MedILS), Split</p> <p>Adjoint Center of excellence: Interdisciplinary Center for Advanced Science and Technology (ICAST), University of Split, Split</p>
Duration	3 years (maximum 6 years)	
ECTS	180 with optional additional 30 or 60 research credits	
Development strategy	<p>The development of doctoral study programmes with emphasis on interdisciplinary programmes is the common developmental strategy of the University of Split (Faculty of Science) and of Ruđer Bošković Institute in Zagreb. Greater mobility of doctoral students will be ensured at the national and international level through broad international collaborations and through obligatory application of the ECTS credit system. The members of the Study Committee for this study programme are: Vlasta Bonačić-Koutecký, Davor Juretić, Damir Vukičević (all PMFST), Davor Eterović (MEFST), Miroslav Radman or Anita Kriško (MedILS), Silvija Tomić (IF), Vesna Svetličić, Igor Weber, Bono Lučić (all IRB). These are highly cited and productive scientists who are active in publishing research papers in high quality scientific journals with research topics ranging from biophysics to structural bioinformatics, data mining, chemical physics and biomedicine. All are project leaders and collaborators on interdisciplinary</p>	

	research topics mainly from the field of biophysics.
Innovative character of the programme	Interdisciplinarity, wide collaboration with other research and academic institutions in Split, in Croatia and abroad. Entrance in the study programme with background from several different natural sciences and from biomedicine, instead of only with the physics degree.
Admission requirements	<p>B.Sc. or M.Sc. in some of natural sciences or equivalent medical degree. Demonstrated preference for scientific work. Positive outcome of the selection process by the Study Committee among prospective candidates.</p> <p>Before enrolling into the first year of the doctoral study the candidate is expected to submit following documents and to perform following actions:</p> <ul style="list-style-type: none"> - The enrolment form prepared by the University of Split must be filled out. - Two recommendations of well known experts are expected to arrive on candidate behalf. - A candidate must describe his/her reasons for choosing this doctoral study (why biophysics, candidate scientific interests, future plans) in a document not longer than two printed pages. - The official transcription of candidate grades and the copy of M.Sc. and/or B.Sc. diploma must be also enclosed (in the case of the B.Sc. diploma it is expected that it is for the four to six year study period ending with a degree from biology, physics, chemistry, informatics or medicine). As a rule, for a grade system from one to five, average grade must be at least 4.0. - A candidate is expected to pass the interview session with Study Committee members. - A candidate is expected to deliver a short public talk. - Awards obtained during previous study - Published scientific works in international journals and/or conference papers or abstracts (if any) must also be enclosed. <p>Students are selected through public competition and through Study Committee analysis of submitted documents and performed actions. The Study Committee will give special attention to indicators of student affinity for independent/original research (for instance strong recommendations of well known experts or high quality of published undergraduate research). The Book of rules, which will be prepared for this study program, will associate certain number of credits for each of above mentioned admission requirements so that candidate lacking credits for one requirement can still be admitted if total number of collected credits are above certain threshold.</p>
Learning outcomes and competences	High quality Ph.D. study of interdisciplinary science, such as the proposed study, ensures required flexibility when seeking employment in medical, pharmaceutical or biotechnological institutions and research institutions as well, that require broadly educated young experts with research experience. Acquired competences could be also used for further specialization anywhere in the world, but in order to alleviate the brain drain of young experts from Croatia, organisers

	<p>of this study will give preference to postdoctoral studies in laboratories which have such agreement with us that includes the expert return to Croatia after one to three years of specialization.</p>
<p>Qualification awarded</p>	<p>Doctor of Philosophy (Ph.D.). The PhD degree will be conferred upon student by the University of Split, Faculty of Science in recognition of his or her completion of advanced study of biophysics. The interdisciplinarity of the biophysics will be recognized by explicit statement that the PhD degree has been gained in natural/biotechnical/biomedical science from the scientific field determined by student's M.Sc. or B.Sc. degree field. We have arranged with the University of Split that our students after successful thesis defence can get additional written statement accompanying their diploma specifying: attended courses, laboratories where research was performed, acquired skills during advanced study of biophysics and the scientific field from which student entered the programme. According to agreement with the University of Split and all participating institutions students can get the European doctorate and the cotutelle study can be arranged for students between University of Split and some foreign university.</p>