

**Extract of the recruitment rules for the Doctoral School of
the Wrocław University of Science and Technology for the academic year 2021/2022**

Rules for discipline: biomedical engineering

NOTE: The document contains an excerpt of the rules of recruitment to the Doctoral School of the Wrocław University of Science and Technology for the academic year 2021/2022 specific for one discipline. The full text is available at: <https://szd.pwr.edu.pl/en/about-us/regulations>.

(...)

§ 22

(Assessment criteria)

1. Candidates are assessed against five criteria:
 - 1) Grades obtained in the course of higher education (detailed rules are specified in § 23).
 - 2) Command of the English language (in accordance with Appendix 1 to the Admission Rules containing the scoring method depending on the obtained certificates and diplomas).
 - 3) Description of the initial concept of the doctoral dissertation (detailed rules are specified in § 24).
 - 4) Scientific activity or research and development activity (detailed rules are specified in § 25).
 - 5) Interview (detailed rules are set out in § 26).
2. The recruitment score is determined according to the formula $W = \sum_{i=1}^5 k_i p_i$, where k_i is the weight of the i -th recruitment criterion and p_i is the number of points obtained in the i -th criterion.
3. The weights of the individual evaluation criteria k_i ($i = 1, 2, 3, 4, 5$) are:
 - 1) $k_1 = 2$ (criterion: grades obtained in the course of higher education).
 - 2) $k_2 = 2$ (criterion: command of the English language).
 - 3) $k_3 = 1$ (criterion: description of the initial concept of the doctoral dissertation).
 - 4) $k_4 = 3$ (criterion: scientific activity or research and development activity).
 - 5) $k_5 = 3$ (criterion: interview).
4. Points p_i ($i = 1, 2, 3, 4, 5$) for each of the evaluation criteria are awarded by the selection committee on a scale from 0 to 10.
5. The recruitment result is negative when the candidate gets $p_i = 0$ points for one or more evaluation criteria.
6. The condition for admission to the Doctoral School is getting a recruitment point score of at least 50 points. out of 100 possible.

§ 23

(Criterion 1: grades obtained in the course of higher education)

1. Let S_1 denote the CGPA obtained during the first cycle studies, S_2 denote the CPGA got during the second cycle studies and S denote the CPGA obtained during the uniform studies (long-cycle master studies). The result of completed studies W is calculated as follows:
 - 1) With completed two-cycle studies, the first and second cycle grades $W = 0,5 \times (S_1 + S_2)$ are considered.
 - 2) With completed uniform studies $W = S$.
 - 3) With the not yet completed last semester of second-cycle studies, grades from all semesters of the second-cycle studies, excluding the last semester and are included in the S_2 indicator, and $W = 0,5 \times (S_1 + S_2)$.

- 4) With unfinished uniform studies, grades from all semesters of studies, excluding the last semester are included in S and $W = S$.
2. The number of points p_1 in the evaluation criterion grades obtained in the course of higher education, referred to in § 22 sec. 2 is assigned in accordance with the table below based on the W ratio calculated in accordance with sec. 1.

Result of completed studies W	Points p_1
at least 4,90	10
[4,80, 4,90)	9
[4,70, 4,80)	8
[4,60, 4,70)	7
[4,50, 4,60)	6
[4,40, 4,50)	5
[4,30, 4,40)	4
[4,10, 4,30)	3
[3,90, 4,10)	2
below 3,9	1

3. When calculating the number of points p_1 with candidates who obtained a diploma abroad, the grading scale used at Wrocław University of Science and Technology is considered. Therefore, the grading scale used at the university that issued the foreign diploma is converted accordingly.

§ 24

(Criterion 3: description of the initial concept of the doctoral dissertation)

1. The description of the initial concept of the doctoral dissertation should not be longer than 2 A4 pages and should contain:
 - 1) Name and surname of the candidate.
 - 2) The discipline in which the doctoral dissertation will be prepared.
 - 3) Thematic scope of the doctoral dissertation, including the initial definition of the research problem.
 - 4) Justification for the selection of the thematic scope of the doctoral dissertation.
2. The description of the initial concept of the doctoral dissertation should be prepared in Polish or in English.
3. The description of the initial concept of the doctoral dissertation should be approved by the potential supervisor.
4. When assigning the number of points p_3 in the criterion, the description of the initial concept of the doctoral dissertation referred to in § 22 sec. 2, the following procedure is used:
 - 1) Each member of the selection board assigns points on a scale from 0 to 10.
 - 2) The final result is the arithmetic mean of the awarded points.
 - 3) If a member of the selection committee is a potential supervisor indicated by the candidate, she or he does not participate in the assigning of points.

§ 25

(Criterion 4: scientific activity or research and development activity)

1. The number of points p_4 in the criterion of scientific activity or research and development activity referred to in § 22 sec. 2 is assigned according to separate rules for individual disciplines as described below.

Discipline: biomedical engineering

If at a given stage of the assessment in this category the sum of points reaches $p_4 = 10$ points, this value is considered final. All presented and documented (confirmed) scientific achievements of the candidate are subject to evaluation based on the following scoring system:

Type of activity	Maximum number of points
Scientific publications (status required: published or accepted for publication):	
publication in journals and monographs from the JCR list	5
publication in journals and monographs from the list of the Ministry of Science and Higher Education in Poland	3
publication in other scientific journals, monographs, or in peer-reviewed conference materials	2
Patents	
granted by the Patent Office	5
industrial design registration right	3
Research grants	
own international	5
own domestic	4
participation in a grant or own microgrant	2
Competitions won, scholarships obtained	
international scholarship	5
national scholarship	3
international award	5
national award	3
local and regional award	2
Domestic or foreign internships and internships (only optional for at least 1 month, including work experience, if related to the development of skills for the implementation of the doctorate)	
international	3
nationwide	2
Own participation in conferences or workshops	
presentation in English	3
speech in the national language	2
poster presentation	1
passive participation (if related to the development of skills for the implementation of the doctorate)	0,5
Other scientific or professional activity (for all the achievements listed below you can get a maximum of 4 points)	
activity in a research club, taking into account the period of activity, function, list of activities	2
organization of conferences, taking into account the rank of the conference and functions in the organizing committee	2
additional higher education, if useful in pursuing a doctorate	2
postgraduate studies, if useful in pursuing a doctorate	2
acquired rights, if useful in the implementation of the doctorate	1
completed specialized courses, if useful for the implementation of a doctorate	1

specific skills to be used in teaching	1
other achievements or organizational activities, if useful in the implementation of the doctorate	2

§ 26

(Criterion 5: interview)

1. The interview is conducted in Polish and / or English.
2. In justified cases, it is possible to conduct an interview remotely using electronic means of communication selected by the recruitment committee.
3. Number of points p_5 in the interview criterion, referred to in § 22 sec. 2 is assigned according to separate rules for individual disciplines.

Discipline: biomedical engineering

Scoring components	Points
Presentation of your current scientific interests and research projects (e.g. thesis)	0-3
Presentation of the initial concept of research planned in the doctoral dissertation and the current state of knowledge on this subject	0-3
The ability to formulate research hypotheses and their presentation	0-1
Orientation in general knowledge in the field of biomedical engineering	0-3

The final score is the arithmetic mean of the points awarded by the members of the recruitment committee, excluding the potential supervisor.

Appendix 1

to the rules of recruitment to the Doctoral School of Wrocław University of Science and Technology (WUST) for the academic year 2021/2022

Evaluation of the knowledge of English – list of certificates and diplomas

Admission points Doctoral School WUST	Language courses / central examination grade - other universities	Language courses in the Department of Foreign Languages WUST	Cambridge English Qualifications	IELTS	ACERT	PTE Academic	TOEFL (iBT) TOEFL (CBT) TOEFL (PBT)	Language Cert	Common European Framework of Reference (CEFR)
10	C2	SJO C2.1	C2 Proficiency	8.0 – 9.0					C2
	C1	SJO C1.2	C1 Advanced 180 – 200	7.0 – 7.5	ACERT C1	65	od 94 od 240 od 587	C1 Pass	C1
	B2 grade 5.5	SJO B2.2 grade 5.5							
8	B2 grade 5.0	SJO B2.2 grade 5.0	B2 First 176 – 179	6.5	ACERT B2 grade 5.0	61	86-93 226-239 568-586	B2 134- 150(W) 179-200 (W&S)	B2
6	B2 grade 4.5/4.0	SJO B2.2 grade 4.5/4.0	B2 First 173 – 175	6.0	ACERT B2 grade 4.5/4.0	56	79-85 213-225 550-567	B2 115- 133(W) 153-178 (W&S)	B2
4	B2 grade 3.5	SJO B2.2 grade 3.5	B2 First 167 – 172	5.5	ACERT B2 grade 3.5	51	72-78 198-212 531-549	B2 97-114 (W)	B2

								129-152 (W&S)	
2	B2 grade 3.0	SJO B2.2 grade 3.0	B2 First 160 – 166		ACERT B2 grade 3.0	46	65-71 183-197 513-530	B2 75-96 (W) 100-128 (W&S)	B2
10	University diploma in philology or applied linguistics in a modern foreign language.								
10	University diploma, with a degree corresponding to the Polish Master's degree, obtained in countries where the language of instruction is an official language.								
10	A document issued abroad, confirming the obtaining of an academic degree or title as well as a degree or title in the field of art – the leading language of a higher education institution is recognised.								
10	A document confirming the completion of higher education or post-graduate studies abroad or in the Republic of Poland - the leading language is recognised provided that the language of instruction was exclusively foreign.								
10	A document confirming entry on the list of sworn translators in the Republic of Poland or a document confirming the qualifications of a sworn translator in another Member State of the European Union or in a Member State of the European Free Trade Association (EFTA), a party to the Agreement on the European Economic Area, or in the Swiss Confederation.								
10	A document certifying that the foreign language concerned is the mother tongue (first); the person concerned is a native speaker of that language.								