

The Erasmus Mundus Joint Master Degree Programme in Data Engineering and Artificial Intelligence (DEAI)

Application Manual V 1.0

September 2025

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1 Presentation & Structure

The Data Engineering and Artificial Intelligence (DEAI) programme favours the integration of students into a network of specialists and researchers in BI and BD. The curriculum is jointly delivered by Université Libre de Bruxelles (ULB) in Belgium, Universitat Politècnica de Catalunya (UPC) in Spain, Technische Universität Wien (TUW) in Austria, Università degli Studi di Padova (UniPD) in Italy and Université Claude Bernard Lyon 1 (UCBL) in France. Scholars from academic partners around the world and partners from leading industries in BI, private R&D companies, service companies, public research institutes, and public authorities will contribute to the programme by training students, providing computers, software, course material, job placement or internship perspectives, as well as financial support. This consortium will prepare the students not only to answer today's professional challenges by a strong connection with the needs coming from the industry, but also to pursue their studies into doctorate programmes, through strong connections with the researchers' and innovators' views.

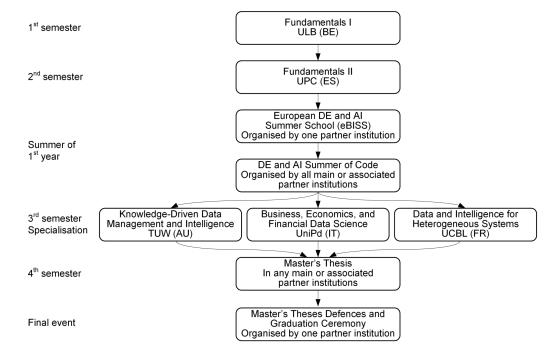


Figure 1: Programme structure and student's mobility

DEAI is a 2-year (4 semesters, 120 ECTS) programme. The first year is devoted to fundamentals: the first semester at ULB, the second one at UPC. Then, all students participate to the European Business Intelligence Summer School. In the third semester, the programme offers three specializations: Knowledge-Driven Data Management and Intelligence; Business, Economics, Financial Data Science: Data and Intelligence for Heterogeneous Systems at TUW, UniPD and UCBL, respectively, and students move to the partner of the chosen specialization. The fourth semester is dedicated to the master's thesis and can be realized at either as a placement in industry, or as an internship in a research laboratory in any full or associated partner. The detailed programme structure and the mobility of the students are presented in Figure 1. Eventually, all students will be gathered in the workshop "Business Intelligence: Innovation Meets Research". The tuition language is English. The programme targets students with a Bachelor of Science (or a level equivalent to at least 180 ETCS) with major in Computer Science, as well as an English proficiency corresponding to level B2 of the Common European Framework of Reference for Languages. Upon completion of the programme, graduates will be awarded with a multiple degree, the national master's degrees from ULB, UPC and the university of the specialization.

2 Eligible applicants

- Students from all countries can apply to the DEAI Master Programme.
- Students must have been awarded a Bachelor's degree (i.e., the equivalent of minimum 180 ECTS), from an accredited university (listed in the IAU's List of Universities of the World or in some of three top university rankings **Shanghai**, **QS** and **Times**).
- In the case your university is not in the drop-down list of the application form, you should send proof of quality about your university to deai_admissions@cs.ulb.ac.be). Such quality proofs might be: educational agreements with universities in the consortium, external rankings (not elaborated by the university and of undoubtedly reliability), etc. The consortium will evaluate each case and communicate as soon as possible if the university is accepted in the list. Without such positive from the consortium, students whose university is not in the list are not eligible to apply.
- In the case that the applicant has not yet obtained his/her bachelor degree at the time of application deadline, he/she may nevertheless apply to the programme. In this case, if he/she is accepted, the acceptance will be conditional. As rule of thumb, non-finished applicants must accredit the final degree according to the dates specified on the web page Also, check the instructions how to fill the Excel file in Section 6.1.
- Students applying for a scholarship must upload proof of obtained bachelor degree no later than the dates specified on the web page. In the case you are not able to obtain the degree before the specified deadline, you should contact the admission center (at deai_admissions@cs.ulb.ac.be) for further assistance. Notice that the possible extension of this deadline depends on your country of origin and the period needed for obtaining the visa for the destination country.
- Non-native English Students must be able to demonstrate proficiency in English by means of an internationally recognized test (see Section 6.1.5 Table 1) equivalent to level B2 in the CEFR (Common European Framework of Reference for Languages) or with the proof that they have followed at least one of the previous level(s) of studies in English.
- There is no formal restriction in the number of applications a student might submit. We generally recommend to potential applicants to choose carefully the master courses on the basis of the preconditions/selection criteria described on the websites of the respective EMJMDs. It is important to know that students who have already obtained an Erasmus Mundus Joint programme scholarship are not eligible to apply for an additional scholarship under the same programme.
- The Erasmus+ program distinguishes students who are nationals or residents of Programme countries and Partner countries.

Programme countries students are:

- * Students who are nationals of one of the 27 EU Member States: Germany, Austria, Belgium, Denmark, Spain, Finland, France, Greece, Ireland, Slovakia, Slovenia, Italy, Luxembourg, the Netherlands, Portugal, Sweden, Bulgaria, Malta, Poland, Czech Republic, Cyprus, Estonia, Hungary, Latvia, Lithuania, Romania, and Croatia.
- * Students who are nationals or residents of one of the following countries: Iceland, Liechtenstein, Norway, Turkey, North Macedonia and Serbia.
- * Students who have resided or carried out their main activities (studies, work, etc.) for more than 12 months over the past five years (counted backward starting from the official deadline for scholarship application to the master) in any of the above countries.
- Students of **Partner Countries** are all other students.

Note:

- Students who have already obtained an Erasmus+ scholarship, an Erasmus+ Master Course scholarship, or an Erasmus Mundus Joint Doctorate scholarship are not eligible to apply for an additional scholarship under the Erasmus+ action.
- Students benefiting from an Erasmus+ scholarship cannot benefit from another EU grant while pursuing their studies under an Erasmus+ scholarship.
- Application for either of the two previous categories does not require paying of any application fee. The only possible cost is that of the paper document submission, and can vary from the chosen mailing service.
- The program cannot be studied from distance or part time thus all the accepted students must be present at the institution where they are enrolled at the moment.

Background

Note: we receive several questions about the expected application profile. Note that the DEAI course has a strong component on computer science and the following pre-requisites are expected:

- Course on relational databases, including SQL, relational algebra and database optimization,
- Course on algorithms and data structures,
- Probability and statistics,
- Experience with modelling languages such as UML and ER diagrams,
- Graph theory (notions such as graphs, reachability, transitivity, ...),
- Set theory (Notions such as set, set operations, sequence, multiset, function) and logics (mathematical notation and argumentation; basic proofs),
- Programming skills: variables, control structures such as loops and if-then-else, procedures, object-oriented notions such as classes and objects, etc.

The DEAI consortium does not evaluate applications before the evaluation period at the end of the application time. If you hesitate whether your profile meets the expected requirements, please, check basic literature on the concepts listed above to double check if you meet them. We do accept non-computer science profiles into the master provided they have experience in these matters or long working experience in related areas. However, it is the student's responsibility to assess if he / she meets the requirements.

3 Application periods

Please take into account that there are three different application periods considering different types of you application (scholarship/fee paying) and your nationality (EU/non-EU students):

- 1. All candidates (EU or non-EU) applying for the scholarship (Programme and Partner countries students see Section 2).
- 2. Non-EU candidates applying as fee paying students.
- 3. EU candidates applying as fee paying students.

Note: The deadlines/important dates for all three application periods are available at the programme's web page.

4 Application checklist

To guarantee that your application is complete and acceptable, please use the following checklist to ensure that the most important steps of the application process are completed.

(* - mandatory steps)

- 1. Register to the online application system* Section 5
- 2. Fill in the online application form* Section 6.1
 - (a) Personal details* Section 6.1.1
 - (b) Information about your academic qualification* Section 6.1.2
 - (c) Information about your references Section 6.1.3
 - (d) Information about your work experience Section 6.1.4
 - (e) Information about language skills* Section 6.1.5
- 3. Upload your documents to the online application* Section 6.2
 - (a) Mandatory documents* Section 6.2.1
 - (b) Optional documents Section 6.2.2
- 4. Submit your online application form* Section 6.3

5 Registering to the System

Prior the beginning of the application procedure, you first need to register to the DEAI online application portal using your **internet browser**¹.

• Link to the application portal: https://deai.ulb.ac.be/emundus/

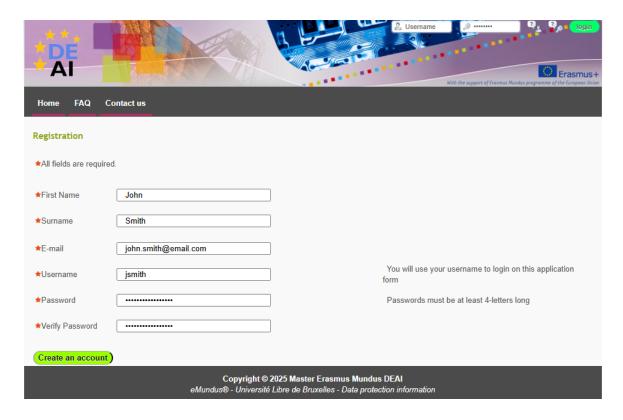


Figure 2: DEAI Registration Form

All fields are required in the registration form and they should be filled as follows:

- First Name: First (Given) name of the candidate
- Surname: Last (Family) name of the candidate
- E-mail: E-mail of the candidate
- Username: Username for logging in the system
- Password: Password for logging in the system (at least 4-characters long)

After submitting the form for registration, you will receive an e-mail containing your personal data, along with the necessary login information and link for the confirmation of your e-mail address.

¹Please use Mozilla Firefox or Google Chrome browsers for the full functionality of the application web page.

Your user id : 2192 Your name : John Smith

Your email: john.smith@email.com

Your username: jsmith

Dear John Smith,

Thank you for your interest in the DEAI master's course. We have received your request to submit an application to our programme and we will process it as soon as you confirm your email address by clicking on the following hyperlink: https://deai.ulb.ac.be/emundus/...

Once your email address is confirmed you may proceed to complete your application.

You will be notified by email of the progress of your application. Kind Regards,

DEAI selection committee

Figure 3: E-mail address confirmation

6 Application procedure

Application for the DEAI Erasmus Mundus programme consists of the following four **mandatory** steps:

- 1. Filling in Application Form
- 2. Uploading Attachments
- 3. Submitting Application Form



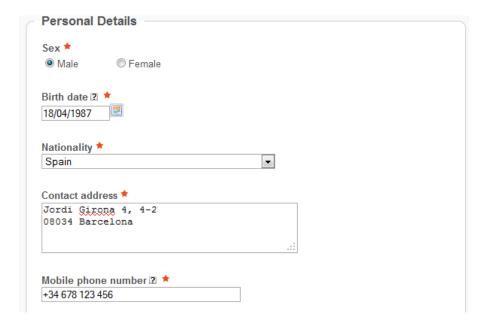
Please keep in mind that early online submissions will be first checked and in case of needed amendments (e.g., missing mandatory files to upload or incorrect Excel file) you would be notified in time as to amend your submission before the deadline.

6.1 Filling in Application Form



Figure 4: Status of the application prior the beginning of the application procedure

The application procedure starts by filling in the online application form. The form consists of the following sections (forms). After filling each form, you need to confirm it by pressing "Save & Continue" button.



6.1.1 Personal details

This form consists of personal details information (Sex, Birth date, Nationality, Contact address, Mobile phone number). All fields are **mandatory**.

Note: Please include full prefix with the country code for the mobile phone number.

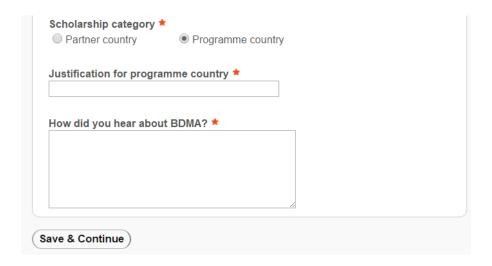
Along with that, the form also requires you to prioritize your preferences for specialties (Specialty 1, Specialty 2 and Specialty 3) ranking them from your first to third choice. Nevertheless, this is only for statistical purposes and will not affect the admission procedure. The final assignment to the specialties will be done during the first year, based on your preferences, your marks and the availability at each of the three universities (i.e., TUW, UniPD, UCBL).



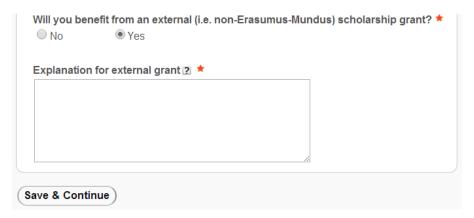
Candidates with any kind of disability or need can shortly (absolutely confidentially) describe it, only for the purpose of positive discrimination during the evaluation procedure.



During the application period for the Erasmus Mundus scholarships, candidates are at the end asked to define to which category of scholarship they apply (see Sections 2 and 3). In case of doubt please contact us. Failing to choose the proper category may imply automatic exclusion.



During the application period for the self-funded students, candidates are alternatively asked to provide information about the funding they plan to use. If a candidate plans to use an external scholarship for studying the DEAI programme, then further information about the scholarship must be provided (at least the funding organization and the application deadline for a scholarship).

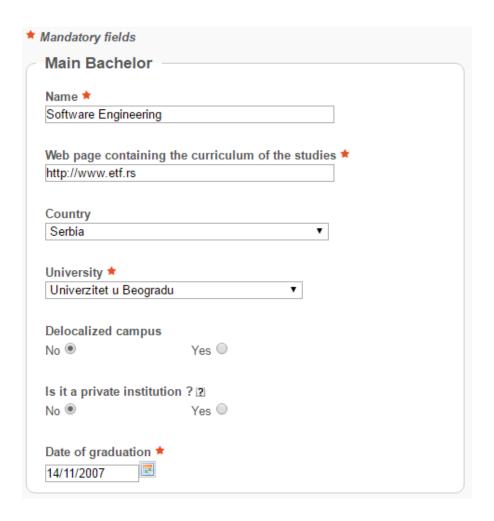


6.1.2 Academic qualifications

To continue with the application procedure you need to provide the information about your **main bachelor degree**. Degrees with a major in Computer science are preferred. However, other degrees will be also acceptable. In that case, please provide as much information as possible about your working experience (Section 6.1.4) in the domain of BI or Computer Science in general in order to counterbalance the fact that you do not have a major in Computer Science. That will possibly increase your overall ranking.

First, you need to provide academic information about the title, the institution and the date when the degree is obtained.

- The **Name** of the title,
- Web page containing the curriculum of the studies,
- Country and
- University where the title has been obtained. If you pursued your studies in a **delocalized campus** (i.e., an international campus abroad from your home university) check the delocalized campus option.
- Date of graduation when the title was obtained (this refers to your graduation date). This is only required for your main title.



Please note that to be able to apply for DEAI, the institution where you obtained your title needs to be in the list of recognized universities by the International Association of Universities (IAU), and thus it needs to exist in the drop-down list of the application form.

The web page containing the curriculum of the studies is the web page of your school showing the details about the courses being part of your degree. In case your university does not have such web page you can alternatively upload the scanned or digital version of this curriculum together with your transcripts and clearly explain this in your cover letter.

Besides filling in the above form, you are also **required** to download a copy of the following Microsoft Excel spreadsheet for self-evaluation and fill it in with the courses that you took in your bachelor program. Later you **must** upload the filled in spreadsheet as "Self-evaluation sheet for the main bachelor" in Mandatory attachments (see Section 6.2.1).

Note: The self-evaluation excel spreadsheet contains macro commands to support the introduction of different types of grading systems (numerical/textual) and thus to properly calculate the mark the macro functionalities **must** be enabled in Microsoft Excel.

Please read the instructions provided in the first sheet of the self-evaluation excel file.

Failing to properly fill in this spreadsheet, unprotecting the cells or changing the formulas inside the spreadsheet will result in automatic exclusion of the applicant from the selection process. Download here the mandatory template of the self-evaluation spreadsheet!

You can also download the examples of already filled in self-evaluation spreadsheets for the cases of bachelor with numerical marks, bachelor with textual marks, and master with numerical marks²

²Use these examples only for a reference, and always use the above template for filling in your self-evaluation

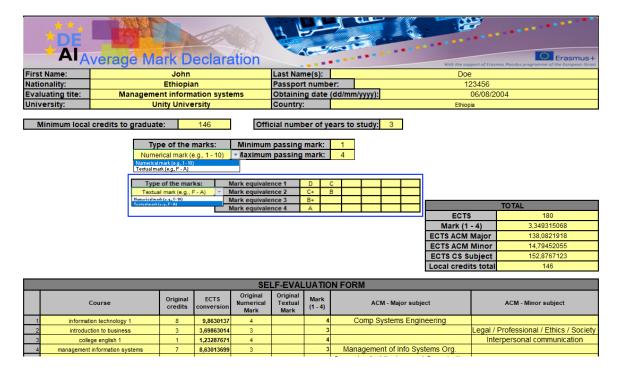


Figure 5: Self-evaluation of student's average mark - first spreadsheet (example)

In the spreadsheet shown in Figure 5 you are first required to provide your personal data and academic data for the evaluated title:

- First name (First name from registration form)
- Last name(s) (Surname(s) from registration form)
- Nationality
- Passport number
- Evaluating title (Your main bachelor degree title that is evaluated in this spreadsheet)
- Obtaining date, i.e., the date when you obtained your evaluating title (**expected date** if not obtained yet)
- The university at which you obtained this title
- The country where you obtained this title

In the second part of the spreadsheet, due to heterogeneity of the titles, you are asked to provide the following information about the grading system of the evaluating title so the title can be equalized both considering the grades and the credits obtained to a common system used for evaluation³

- Number of local credits to graduate. If this does not appear in the transcripts, just fill it with the sum of all local credits you took
- Expected total number of years in the degree to obtain the title (i.e., to graduate). Importantly, it **does not refer** to the number of years it took you to graduate but to the number of academic years.
- Type of the marks each course is graded with
 - Numerical mark based on ascending intervals (e.g., 1-10, 50-100, 1-30, 10-20 etc.). For numerical marks you are additionally required to provide the *minimum* mark for **passing** the course and the *maximum* mark that can be obtained.

file from scratch.

³Student's passing marks are equalized to the marks inside the 1-4 interval, where 1 stands for the fair (lowest passing mark) and 4 stands for the outstanding (highest mark). Local credits student obtained are equalized to the corresponding number of ECTS credits.

Textual mark (e.g., A-F, Excellent - Passing). For textual marks or numerical marks that are based on the set of enumerated values (i.e., not intervals) or descending values (e.g., 1 being highest - 4 being lowest), you are additionally required to provide the distribution of your local marks into four different intervals (1 - 4), where 1 stands for the fair (lowest passing mark) and 4 stands for the outstanding (highest mark). Only the passing marks must be considered. The distribution of the marks depends on the number of marks and needs to follow the following rule: "Each interval must contain less or equal number of marks that the adjacent lower one."

After you provided the data about the local grading system of your title, you should fill the main part of the spreadsheet with the courses taken within the evaluated title. The courses need to be introduced in the spreadsheet in the same order as they appear in the transcript you provide. The following data about each taken course is needed:

- Course name
- Number of the original credits (in the local grading system). If all courses have the same weight (or the number of credits does not appear in the transcripts), just write "1" in all these cells.
- If the marks are of numerical type the *original numerical mark* is required. Otherwise, the *original textual mark* is required.
- The computer science subject that the course covers according to The Glossary of Computer Science courses (candidates may only choose one subject, either ACM major or ACM minor per course). Only the maximum of 10% out of all computer science subjects can be assigned to ACM minor subjects. If your title carries more than 10% of ACM minor out of all computer science subjects please leave both ACM minor and ACM major fields empty for those exceeding the maximum percentage allowed.

Important notes (please, double check, this is a list of typical mistakes made when filling the Excel template):

- You **must** use the same grading system as in the provided transcripts. In the case that both numerical and textual marks are available, you must mandatorily choose the numerical ones.
 - For courses graded with pass/fail type of mark, you should only provide the credits that the course carries and not the mark obtained.
- You must provide information about the Computer Science subject that the courses covers, for as many courses as possible, i.e., choose ACM Minor or ACM Major. Importantly, do not leave these two columns completely empty, as this will prevent you from continuing your application procedure.
- Each cell/text colored in **red** means that a mistake was made. In that case, please, check that the entered data is in accordance with the explanations above.
- In case that your bachelor studies are separated in a 2-years high diploma and a 2-years bachelor, you should consider both degrees for the calculation of credits and marks, and later provide all corresponding certificates and official transcripts. In this case, the data about the evaluated title (name, date, university...) should come from the second degree.
- The total ECTS should be greater than or equal to 180 ECTS.
- If you have not obtained your bachelor diploma yet, please follow these instructions when filling in the self-evaluation sheet:
 - If a course is being taken but not yet finished it should be added to the sheet (but leave the mark fields empty),
 - If a course is neither being taken nor enrolled yet, it should not be added to the self-evaluation sheet. This may cause the field "Local credits total" to become red,

indicating that not all the local credits have been inserted. In such case you can ignore this error.

- If you have a block of transferred credits in your transcripts, try to assign it to an ACM major or minor whenever possible.
- In case the local textual marks of your university consists of less then 4 passing marks (e.g., A,B; A,B,C) distribute the marks in the self-evaluation sheet in the following way (Notice that such distribution is a fair middle solution for equalizing your marks to the common evaluation range, that avoids creating outliers as well as leaving candidates out of the selection.):
 - The case of 3 passing marks (A, B, C): 1-C; 2-; 3-B; 4-A
 - The case of 2 passing marks (A, B): 1-C; 2-; 3-; 4-A
- In case your university uses different mark ranges for different courses you should follow these instructions to scale your marks up to the same level:
 - You need to homogenize your marks to the common scale (i.e., 50-100, 50 being the minimum passing and 100 the maximum passing mark), before entering them to the self-evaluation sheet.
 - If you have a local grading system [a,b], 'a' being minimum passing and 'b' maximum passing mark, and you want to scale mark X to a common system [50,100] then you need to use this formula:

$$\frac{100-50}{b-a} \times (x-a) + 50$$

- (x a) translates the mark in local system i.e., calculates the distance from the minimum, the fraction is a scaling factor so you scale the mark with it and translates it back in the new system with + 50
- This formula should be applied to all your marks each time replacing a and b with the ranges the mark is inside and x with an actual mark. (e.g., [a = 30, b = 75])
- You should explain this case carefully in your cover letter so it would be clear to the selection committee.

Once you enter all courses from your main bachelor/ main master degree in the spreadsheet you will automatically obtain the corresponding calculated values (Figure 5):

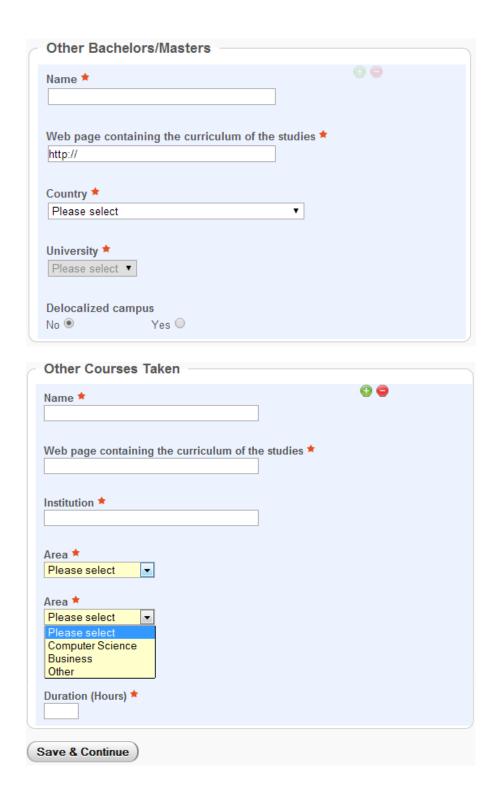
- ECTS, i.e., the total number of ECTS credits,
- ECTS CS Subject, i.e., the number of ECTS credits in Computer Science, and
- Mark (1-4), i.e., weighted average mark rounded to two decimal places.

Note: Further details of calculations for the evaluating title are given in Appendix A

The filled in spreadsheet file(s) **must** be then uploaded as a Mandatory attachment ("Detail of the calculation for the main bachelor"). Furthermore, you also need to upload your "Bachelor certificate" as well as "Official transcripts" (showing the list of courses, with the assigned weight and mark) corresponding to the degree. More information on this, in Section 6.2.

Besides the main bachelor, you can repeat this process for other bachelors/masters you have or any relevant course you took. In those cases the same calculation of the weighted mark is needed as for the main bachelor. You can enter 0 or more additional degrees. To enter more than 1, use the plus button (minus button to remove it).

Other courses that are relevant for this application/evaluation procedure can be entered. Besides the main information about the course (Name, Curriculum of the course, Institution, Duration) you are asked to provide the area to which the course belongs (Computer Science, Business Administration or Other).



6.1.3 References

In this form you are expected to provide information about the persons you have asked to write a letter of recommendation for you. You can provide between 0 and 3 reference letters, hence the references are not mandatory for your application. Academic reference letters (from university professors) are preferred but you may as well provide reference letters from other relevant persons (e.g., your employers). In that case, if the referee is not from academic world or his/her H-factor is zero, you do not need to provide the source from where you calculated the H=factor of your referee (e.g., Google Scholar). See example below.

First, contact a referee who knows you (e.g., the professor that lectured you in some course), and ask him/her whether he/she is willing to provide the recommendation for you.

First Reference	
Name	
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
Homepage ★ http://www.referee_site.com	
nup.//www.reieree_site.com	
H-factor *	
9	
Microsoft Academic Search web page 🖈	
http://academic.research.microsoft.com/xxxx	
Position *	
Professor	
Email *	
xxxx@xxxx.xxx	
Telephone number *	
xxxxxxxxxxx	
Contact Address *	
xxxxxxxxxxxxxx	
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.:: Country ★	

For each referee introduce the data in the corresponding form. Indicate the *full name*, the *homepage*, optionally the *H-factor* (see below), the *position occupied*, the *country*, the single correct *email address* of the referee, the *telephone number* and the *postal address*. In case your referee does not maintain his/her homepage you should provide any relevant web page containing professional information about him/her. For example his/her profile on DBLP or Linkedin.

Please double check the above information (especially the referee's email address) to avoid delay in notifying your referee and obtaining your letter of recommendation.

Optionally, for each referee, you can provide his/her H-index (H-factor)⁴. You can use various web sites and tools in order to calculate the H-index (e.g., web sites: Google Scholar, tools: Publish or Perish). We show here how to compute the H-index of your referee using Google Scholar. Simply,write the name of the referee in the text box and choose the right one among those proposed, if more than one (see Figure 6). In case you find your referee's H-index using any available web site, you should additionally insert the link to the web page dedicated to your referee on that web site (or tool). Otherwise, in case you do not provide your referee's H-index or it is zero (0) no additional information is required.

⁴ "The h-index is an index that attempts to measure both the productivity and impact of the published work of a scientist or scholar." - Wikipedia

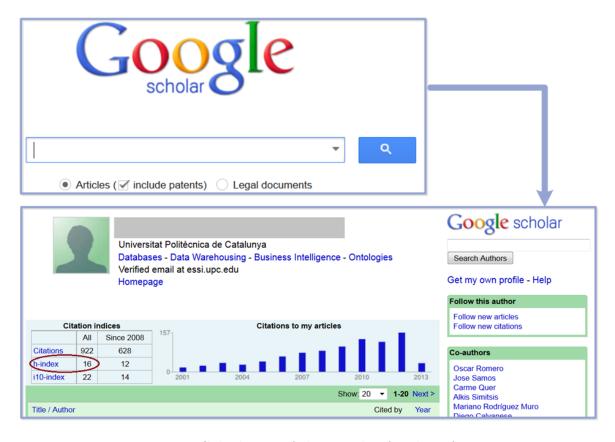


Figure 6: Calculation of the H-index for the referees

The referee you have chosen will get an automatic e-mail asking him/her to fill a brief report (4-5 questions) about you. The referees are then supposed to upload the corresponding reference file into the system until the deadline specified in the web page.

You will be able to see whether your referees have submitted their letters by getting an e-mail stating that the report has been uploaded.

Importantly, notice that your online application submission is independent from the submission of the letter of reference by your referee. This means that your letter of reference can be submitted after you submit the online application, but within the corresponding deadline.

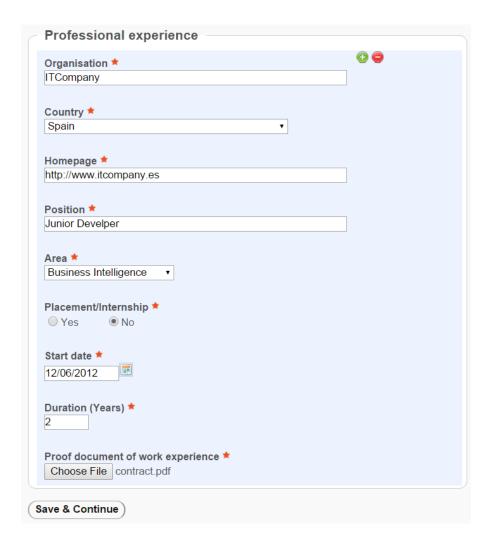
Please bear in mind that it is your responsibility to make sure that the referees you have chosen upload their letters before the corresponding deadline. Only references associated with an uploaded letter will be taken into account by the selection committee when evaluating your application. Additionally, we may contact your referees for clarification or further information about you.

In the case that for some reason (e.g., incorrect e-mail provided) you prefer to change or delete some of the referees or your referee(s) encountered a problem during the process, just delete that referee and introduce new information again. Each time that referee information is added an automatic e-mail will be sent to him/her.

6.1.4 Work experience

In this form you should enter your professional experiences that are the most relevant to DEAI. You can enter 0 or more work experiences. If you do not want to enter any work experience, use the minus button before saving the form. To enter more than 1 work experience, use the plus button.

For each work experience, indicate the *name* and *homepage* of the company, the *position* you occupied, if this work experience was done in the context of either an *internship* or



placement⁵ (by selecting 'yes'), the duration in years, and upload the document in PDF that proves your work experience. This should typically be your contract, i.e., the legal document that states and explains a formal agreement of your employment, in English. For long contracts only the relevant parts need to be translated, like dates (i.e., duration), tasks, category etc. Alternatively, you can provide another official document stating your work experience and information above (e.g., internship certificate, proof of salary). Besides this main information about the employment you are also asked to provide the Area to which your job belonged (Business Intelligence, Computer Science, Business Administration or Other).

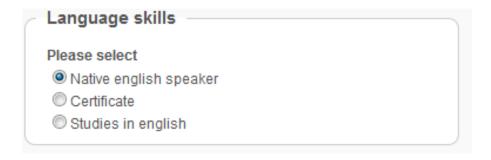
Please note that in the case of self-employment i.e., you have/had your own business you need to provide corresponding documentation (e.g., certificate of Incorporation, certificate to Commence Business, company Code etc.) to prove that and you should further clearly explain this situation in your cover letter.

6.1.5 Language skills

In the last application form, you are asked to provide the proof of your English proficiency. There are three possibilities to prove your English proficiency:

1. You are a native English speaker. You should upload a document (an official certificate or a sworn statement explaining your case) showing that you were born or grown up in an English speaking country (e.g., high school certificate).

⁵A placement or an internship is a usually short time training period spent to acquire a working experience. Usually the term placement is used for a training period in a company, whereas an internship may refer to a training period spent in the academic world, like for instance in a research laboratory.



2. **Provide a** certificate **of an English test** stating a result equivalent at least to level B2 in the CEFR (Common European Framework of Reference for Languages). The following English certificates are acceptable with their corresponding minimum grades.

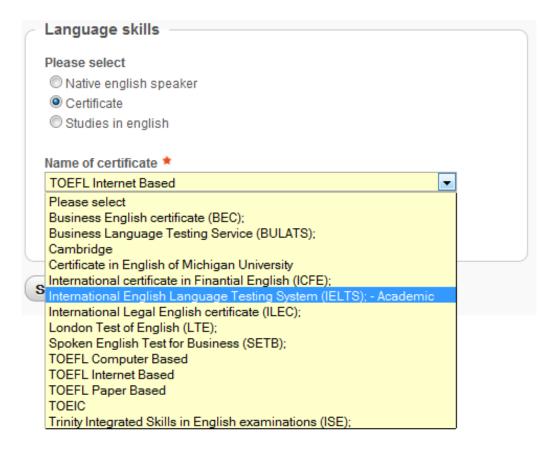


Figure 7: Drop-down list of the acceptable English proficiency certificates in the online application form

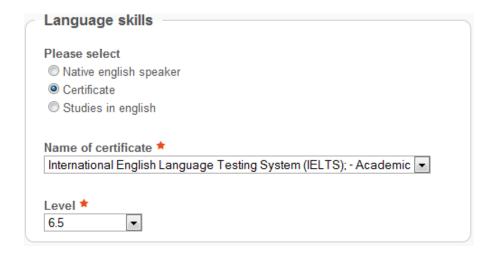
Table 1: Acceptable English proficiency certificates

Acceptable certificates of English proficiency			
Minimum			
Certificate name	${ m acceptable\ grade}$		
Cambridge General English Exams	First Certificate (FCE)		
Cambridge Business English certificate (BEC)	Vantage		
Cambridge International certificate in			
Financial English (ICFE)	B2		
Cambridge International Legal			
English certificate (ILEC)	B2		
Business Language Testing Service (BULATS)	60		
Cambridge International English			
Language Testing System (IELTS)			
- Academic	5.5		
Spoken English Test for Business (SETB)	Communicator		
London Test of English (LTE)	Level 3		
Certificate in English of			
Michigan University (ECCE)	Competency (ECCE)		
Test of English for International			
Communication (TOEIC)			
- Listening and Reading	785		
British Council	APTIS B2		
Pearson Test of English (PTE)	PTE General Level 3		
	PTE Academic 59 a 75		
Pearson - London Chamber of Commerce			
and Industry (LCCI)	LCCI English for Business 3		
The European Language Certificates (telc)	telc English B2		
UNIcert	UNIcert II		
CLES (Certificat de Compétences en Langues			
de l'Enseignement Supérieur)	CLES 2		
University of Oxford	Oxford Test of English B2 111-140		
LanguageCert International ESOL:			
Listening, Reading, Writing, Speaking	Communicator B2		
Cambridge Assessment: Linguaskill	160-179		
Test of English as a Foreign La	anguage (TOEFL) ⁶		
Internet Based	72		
Computer Based	230		
Paper Based	570		

The period between the proficiency test results and this application should not exceed two years. If the test is more than two years old, then the applicants must show that they have been practicing English during the last two years (e.g., by providing a certificate of some courses taken in English during the last two years besides the certificate of the English test).

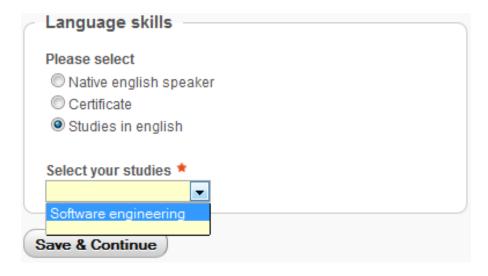
Please note that even though you are allowed to send your official English test results af-

⁶The ETS institution code of Université Libre de Bruxelles for automatic TOEFL results delivery is 0550.



ter the online application deadline (see Section 3), you are required to provide at least the test score before the application deadline together with the screenshots of the online results.

3. The tuition of at least one of your bachelors or masters provided in "Academic qualification" was delivered in English (Studies in English). You should later upload a document (certificate) from your university stating that you followed this program in English.



Note: Having an internationally recognized English certificate (e.g., TOEFL, Cambridge, etc. see Table 1) is preferred to graduating from studies delivered in English.

The documents that prove your English proficiency must be uploaded in the "Mandatory attachments" part ("A certificate or proof of English proficiency"). More information on this, in Section 6.2.

After you enter the language skills information the first phase of the application process (Filling in Application Form) is completed.

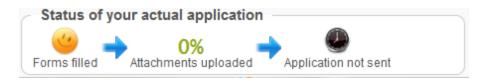


Figure 8: Status of the application after the online application forms are filled

6.2 Uploading Attachments

To continue with the application process you are required to upload necessary documents into the application web page (**x** mandatory attachments). You are also welcomed to upload additional documents (**x** optional attachments) clarifying any possibly vague situation relevant for the application process.

All documents to upload must not exceed 2M bytes.

Each attached document (containing text) must be translated in English and the translation must be officially certified (e.g., by a sworn translator).

6.2.1 Mandatory Attachments

The documents that you are required to upload are the following:

• Photo

A recent personal photo, in passport size, only in jpg, jpeg, png or gif formats only.

• Cover letter

A letter in English motivating your interest and application for DEAI. Carefully explain your competitive background and your professional perspectives, and how DEAI will help you in achieving them and hence, the reasons why you should be elected and granted in front of others. Also, use the cover letter to clarify any possible ambiguity in your application procedure. **PDF** format only.

• Passport

A scanned copy of your valid passport showing your personal information (name, birth date, birth place, validity period, sex, signature and passport number), in **PDF** format only.

• CV

Your personal comprehensive Curriculum Vitae, in English, in **PDF** format only. Europass CV format is preferred.

• Main bachelor certificate

Certified English translation of your main Bachelor's degree, in **PDF** format only. Optionally, if you have not finished your bachelor studies yet, you should upload the official document issued from your university about your current status and the *expected* graduation date. Students applying for a scholarship must upload proof of obtained bachelor degree no later than the dates specified on the web page. In the case you are not able to obtain the degree before the specified deadline, you should contact the admission center (at deai_admissions@cs.ulb.ac.be) for further assistance. Notice that the possible extension of this deadline depends on your country of origin and the period needed for obtaining the visa for the destination country.

• Official transcripts for the main bachelor

University's certified statement of your academic record for the main bachelor degree, translated in English, in **PDF** format only. Official transcript should show the list of courses taken during the degree, the weight of each course (according to your local system), and the mark obtained.

• Self-evaluation for the main bachelor

The completed self-evaluation spreadsheets (Figure 5) filled with the information from your main bachelor degree, in **xls** or **xlsx** format.

• Other Bachelor/Master certificate

University's certified statement of the academic records for other Bachelor/Master degrees, in **PDF** format only.

• Other Official transcript

University's certified statement of your academic record for other Bachelors/Masters degrees, in **PDF** format only.

• Self-evaluation for other degrees

The completed self-evaluation spreadsheets for the number of ECTS for other bachelor or master degree, in **xls** or **xlsx** format.

Notes:

- A self-evaluation excel file filled in the same manner as the previous one, is **mandatory** for each additional bachelors/masters title that is added in the application form.
- Bachelor/Master certificate as well as the official transcripts and detail of the calculation are **mandatory** for each additional bachelor/master title that is added in the application form.

• A certificate or proof of English proficiency

In the case that you obtained one of the certificates listed in Section 6.1.5 (Table 1), upload the copy of the certificate. Otherwise, you are required to provide other document(s) that prove(s) your English proficiency, e.g., an official document showing that you were born or grown up in an English speaking country, or an official document showing that at least one of the studies listed in "Academic qualifications" were taught in English. **PDF** format only.

6.2.2 Optional Attachments

• Bachelor/Master thesis

Document of your bachelor/master degree thesis or final year project, in English and in **PDF** format only

• Other certificate

Other certificates for other courses taken, translated in English and in **PDF** format only.

• Letter of reference 1, 2 and 3

All letters of reference, must be uploaded by your referees, in English and in PDF format only.

Each uploaded document may have a short textual description accompanied with it.

After the appropriate documents are chosen to upload these documents press *Send attachments* button both for mandatory and optional attachments.

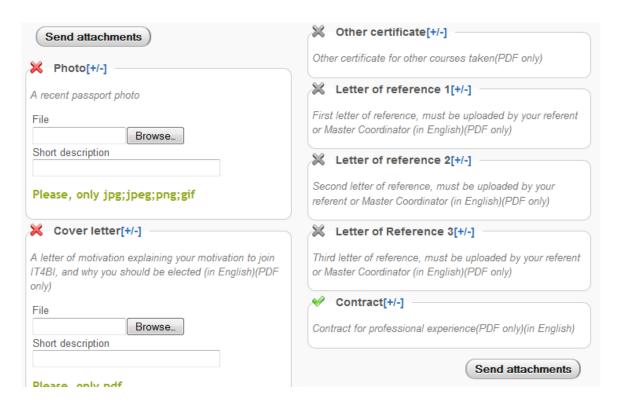


Figure 9: Section for uploading mandatory and optional attachments

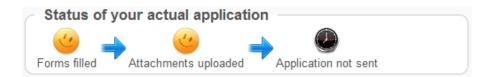


Figure 10: Status of the application after the at least mandatory attachments are uploaded

6.3 Submitting Application Form

After the mandatory attachments are uploaded, you are now allowed to submit your online application. We kindly remind you that early online submissions will be first checked and in case of needed amendments (e.g., missing mandatory files to upload or incorrect Excel file) you would be notified in time as to amend your submission before the deadline. To submit your application, just click the "Send your application" link (Figure 11) and then on the following page declare the correctness of the provided data by checking the checkbox Yes and finalize the submission by pressing the "Submit my form!" button (Figure 12).

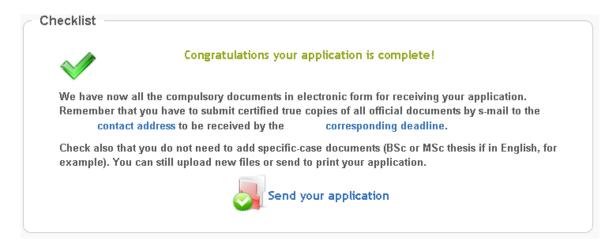


Figure 11: Submitting online application form

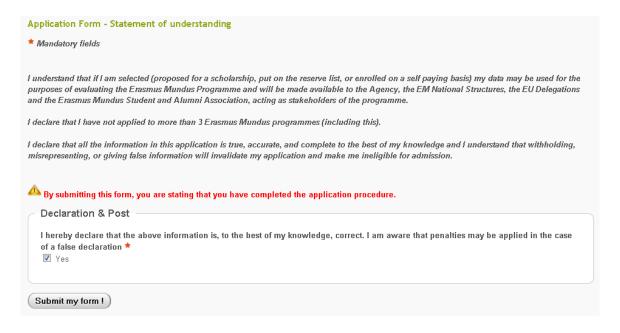


Figure 12: Declaring the correctness of provided data

After you submit your application, in the case you want to upload or change the documents or data you previously provided, you must contact the admission center (at deai_admissions@cs.ulb.ac.be) for further assistance. Your application will be marked as incomplete, so you can go back and make the modifications. Importantly, once you finish modifying your application, you must resubmit the application following the same process as the first time. After submitting your application, you are also allowed to print your application (Figure 13).



Figure 13: Application successfully submitted - (Print your application)

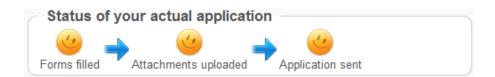


Figure 14: Status of the application after the application is submitted

A Calculation details for title self-evaluating

Respecting the minimum and maximum mark introduced in Section 6.1.2, the marks between the minimum passing mark and the maximum one will be distributed into four intervals (from 1, the lowest, to 4, the highest) defined as follows. Let M and m be, respectively, the maximum and minimum passing mark, and let s = (M - m)/4 be the size of the intervals. Then, the intervals are defined as follows:

- 1. 1 = [m, m + s].
- 2. 2 = (m + s, m + 2s].
- 3. 3 = (m + 2s, m + 3s].
- 4. 4 = (m + 3s, M].

For example, the marks in the given grading system:

Minimum passing mark	10
Maximum passing mark	20

Are automatically distributed in a following manner:

Table 2: Example of grade conversion for interval-based numerical marks

Local mark	Score
[10-12.5]	1
(12.5-15]	2
(15-17.5]	3
(17.5-20]	4

1. Textual mark

Some examples of the correct distributions of the marks in the textual (non-interval) grading system are given in the following tables:

Table 3: Example of textual mark equivalences

Mark equivalence 1	D	С	C+	
Mark equivalence 2	B-	В		
Mark equivalence 3	B+	A-		
Mark equivalence 4	A	A+		

Table 4: Example of numeric non-interval mark equivalences

Mark equivalence 1	4	3.7	3.3	
Mark equivalence 2	3	2.7	2.3	
Mark equivalence 3	2	1.7		
Mark equivalence 4	1.3	1		

Calculations:

With the above data provided, the $ECTS conversion = \frac{60 \times original_credits}{\frac{\min_grad_credits}{exp_grad_years}}$ and the **1-4 mark** equivalence is automatically calculated. Along with that, the total evaluating values are calculated automatically:

• ECTS, the total number of converted ECTS credits of the evaluating title

• Mark (1-4), average mark weighted with the number of ECTS credits obtained per each course.

$$AverageMark(1-4) = \frac{\sum (course's \ mark \times course's \ ECTS)}{\sum course's \ ECTS}$$

- ECTS ACM Major, the total number of ECTS credits for the courses covering the ACM Major subjects.
- ECTS ACM Minor, the total number of ECTS credits for the courses covering the ACM Minor subjects.
- ECTS CS Subject, the total number of ECTS credits for the courses covering the computer science subjects (major or minor).