MUSKET Web Tools tutorial

PAWER

PAVING THE WAY TO INTERREGIONAL MOBILITY AND ENSURING RELEVANCE, QUALITY AND EQUITY OF ACCESS

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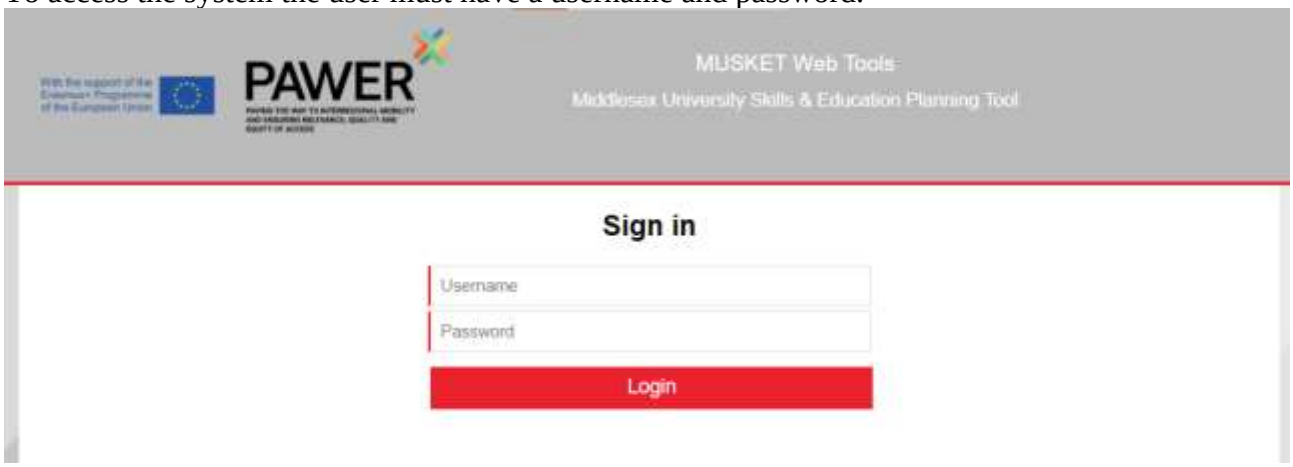
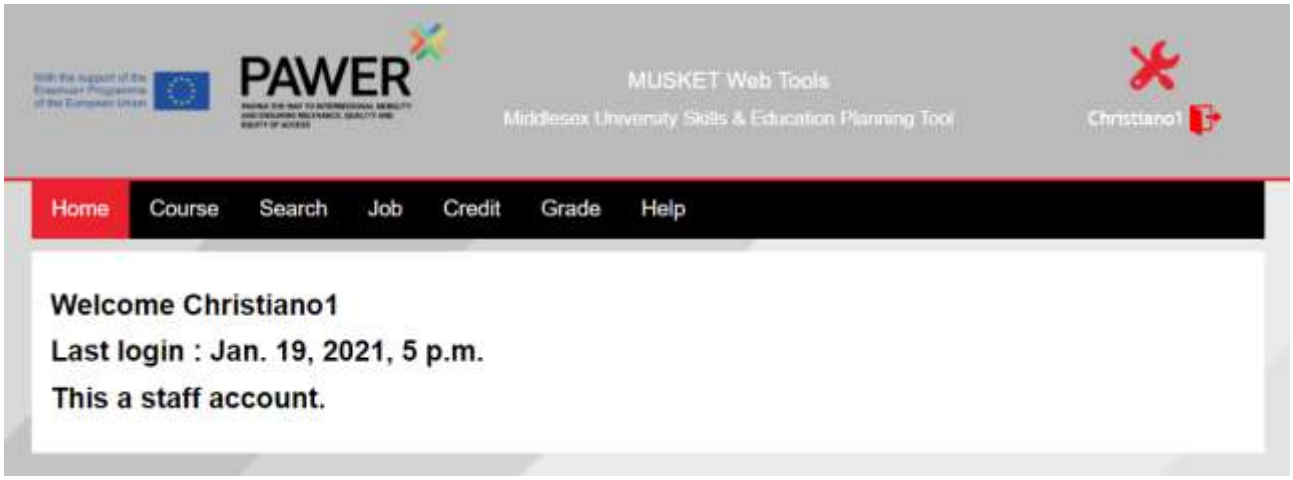
1. Home

To access the system the user must have a username and password.



After successfully login, the home page shows the user account name, current time, and what kind of account it is (staff, account, admin…)

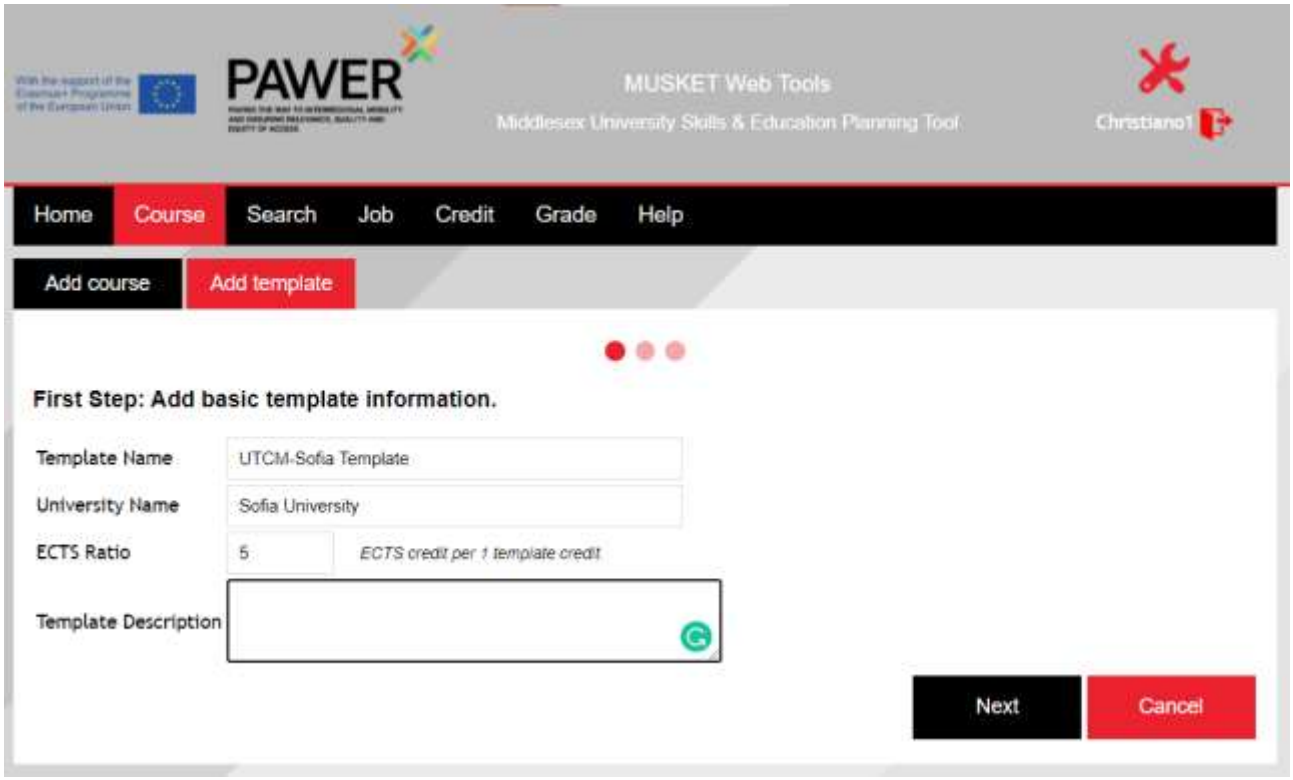


2. Course

The first menu allows the user to add a university module content.
As different university have different document structure, with different headings, a template structure must be set up. This has to be done only once per document structure.

2.1 Course -> Add template

Template name: whatever is relevant for the user to find after
University name: used when searching for the template
ECTS Ratio: optional
Template description: it can be used to explain what this template structure is going to be used for.



The next step is where the user writes down all the document headings on the left-hand side (as they are on the official document) and associate it with one of the XCRI-CAP fields. The association is required when comparing content from different templates or universities content.

For this example, the “Environmental protection and sustainable development b771_R (EN).doc” file is used. Here is an screenshot from the content:

University of Chemical Technology and Metallurgy - Sofia

Course Code: в771	**Title:** Ecology and Sustainable Development – **for full time students**
Semester: VI	**Degree title**: Engineering Ecology and Environmental Protection Level - Bachelor

Summary: The course aims at:

- Giving knowledge about fundamentals of Ecology as well as about the main components and processes of environment;
- Showing the increasing interaction and interdependence between the development of society and environmental changes;
- Explaining the nature of the above interdependences and showing the danger of environmental catastrophe and the end of natural resources as a result of man activities;
- Describing the concept of sustainable development as a possibility for the society survival.

Interdisciplinary connections:
Organic Chemistry, Physical Chemistry, Fundamentals of Biotechnology

Course content: Organisms, resources and environmental conditions. Populations communes (co-societies). Ecosystems. Food chains. Food networks and levels. Energy pyramid. Primary and secondary succession. .Food mineral cycles. Material and energy balances.
Society and its impact on the environmental components. Anthropogenic losses in the variety of bio species.
Sustainable development of society and its indicators

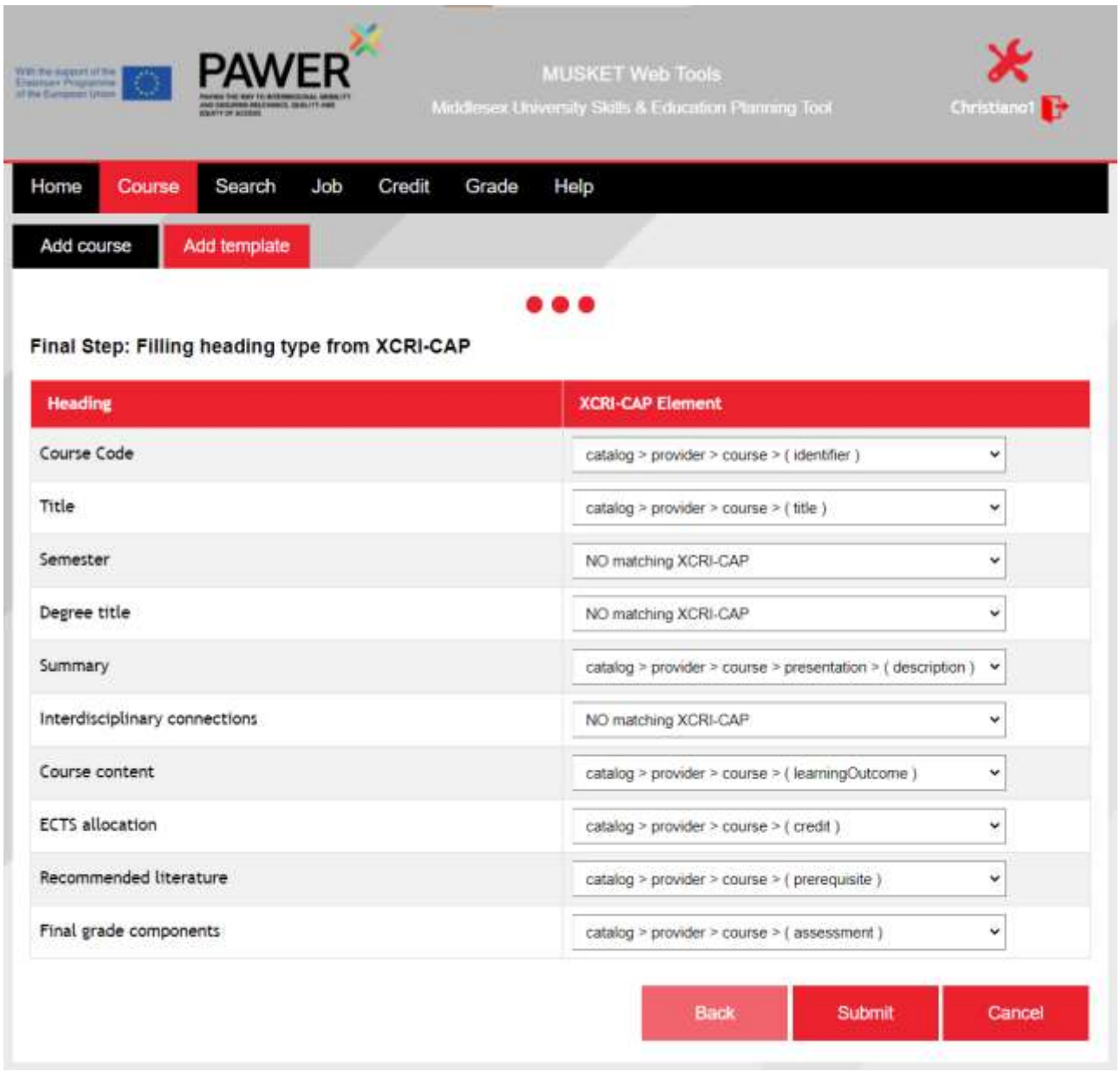
ECTS allocation:
Contact hours – 3,0.; Selfpreparation – 3,0.,
incl. 1. Preparation for exam – 1,0.
2. Paper preparation – 1;
3. Preparation of reports for laboratory exercises – 0,5;
4. Consultations with the teacher – 0,5.;

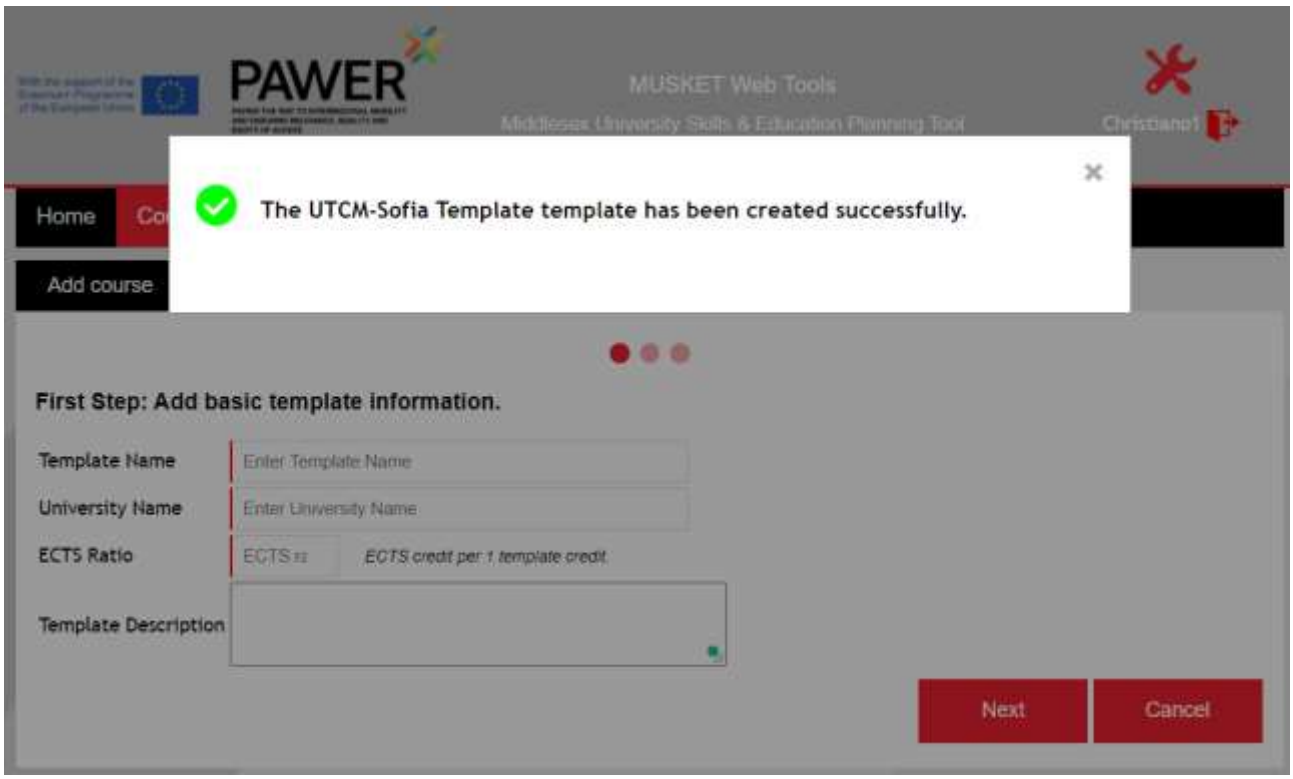
Recommended literature:

1. Begon M., J.Harpet, C.Townsend, Ecology, Individuals, Population and Communities, Blackwell Scientific Publications, 1990.
2. Odum E., Basic Ecology, Saunders College Publishing, 1983.
3. Arms K., Environmental Science, Saunders College Publishing, 1990.
4. Nath B., L.Hens, D.Devuyst, Sustainable Development, VUBPRESS, Brussels, 1996.
5. Nath B., L.Hens, D.Devuyst, Environmental Management, VUBPRESS, Brussels, 1994.

6.Duke C., C.D.Williams, Chemistry for Environmental and Earth Sciences, Taylor&Francis Group, 2008.

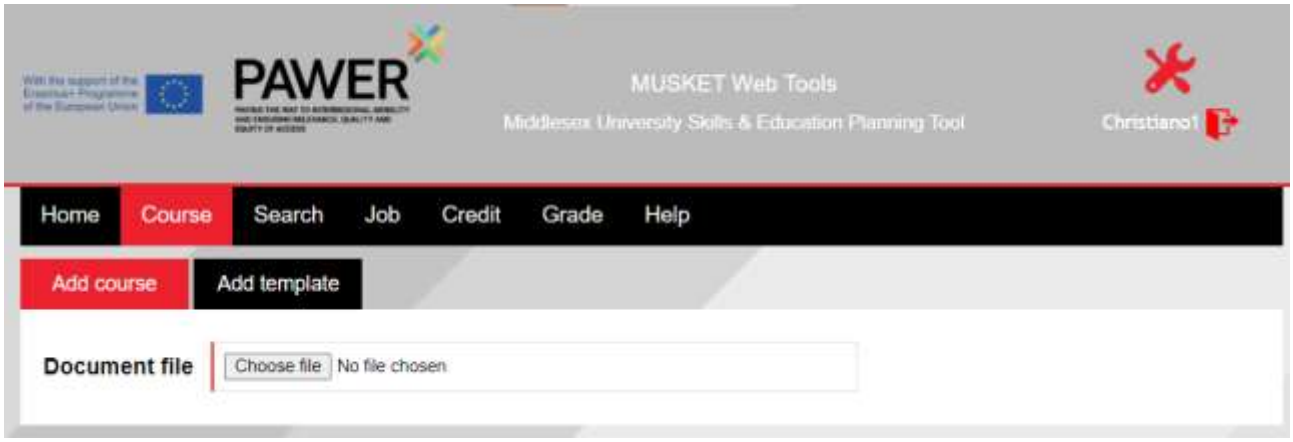
Final grade components;
Paper defense: – 20%;
Written exam: - 80 %

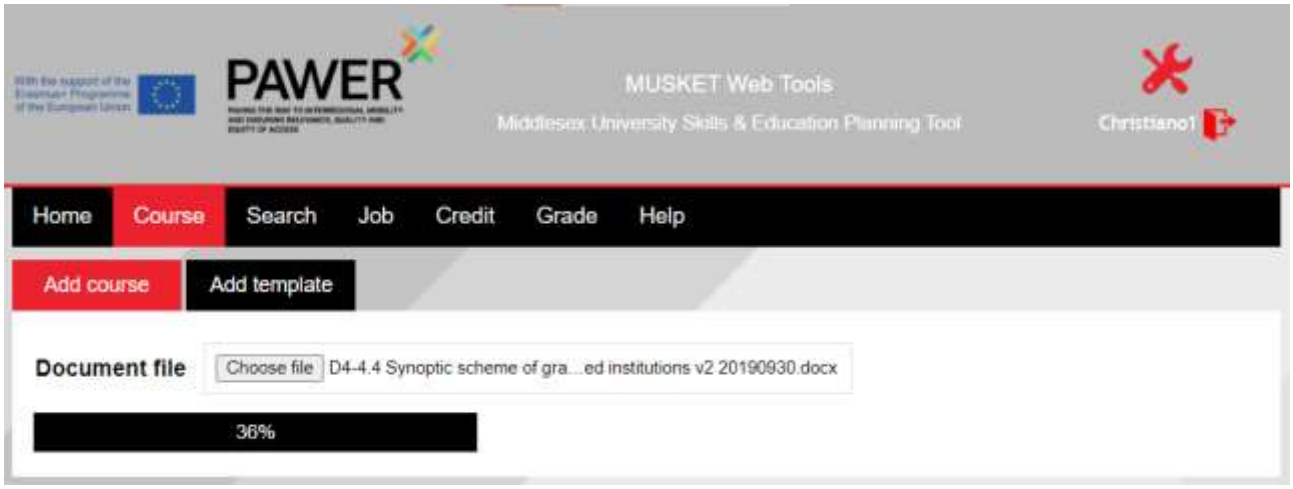

PAWER
MUSKET Web Tools
Middlesex University Skills & Education Planning Tool
Christiano1
Home
Course
Search
Job
Credit
Grade
Help
Add course
Add template
Final Step: Filling heading type from XCRI-CAP
Heading
XCRI-CAP Element
Course Code
catalog > provider > course > (identifier)
Title
catalog > provider > course > (title)
Semester
NO matching XCRI-CAP
Degree title
NO matching XCRI-CAP
Summary
catalog > provider > course > presentation > (description)
Interdisciplinary connections
NO matching XCRI-CAP
Course content
catalog > provider > course > (learningOutcome)
ECTS allocation
catalog > provider > course > (credit)
Recommended literature
catalog > provider > course > (prerequisite)
Final grade components
catalog > provider > course > (assessment)
Back
Submit
Cancel



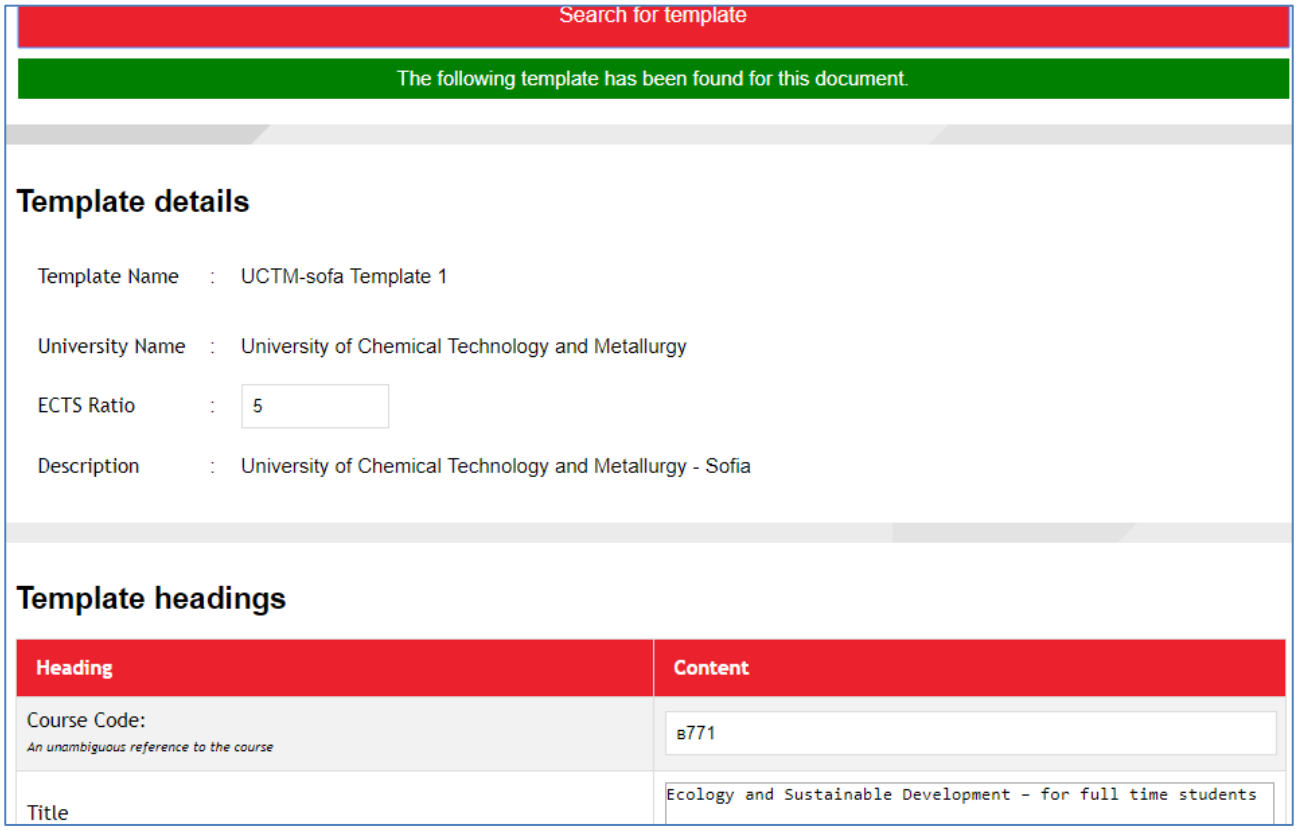
2.2 Course -> Add course

After creating the template, the user can now upload the relevant document.





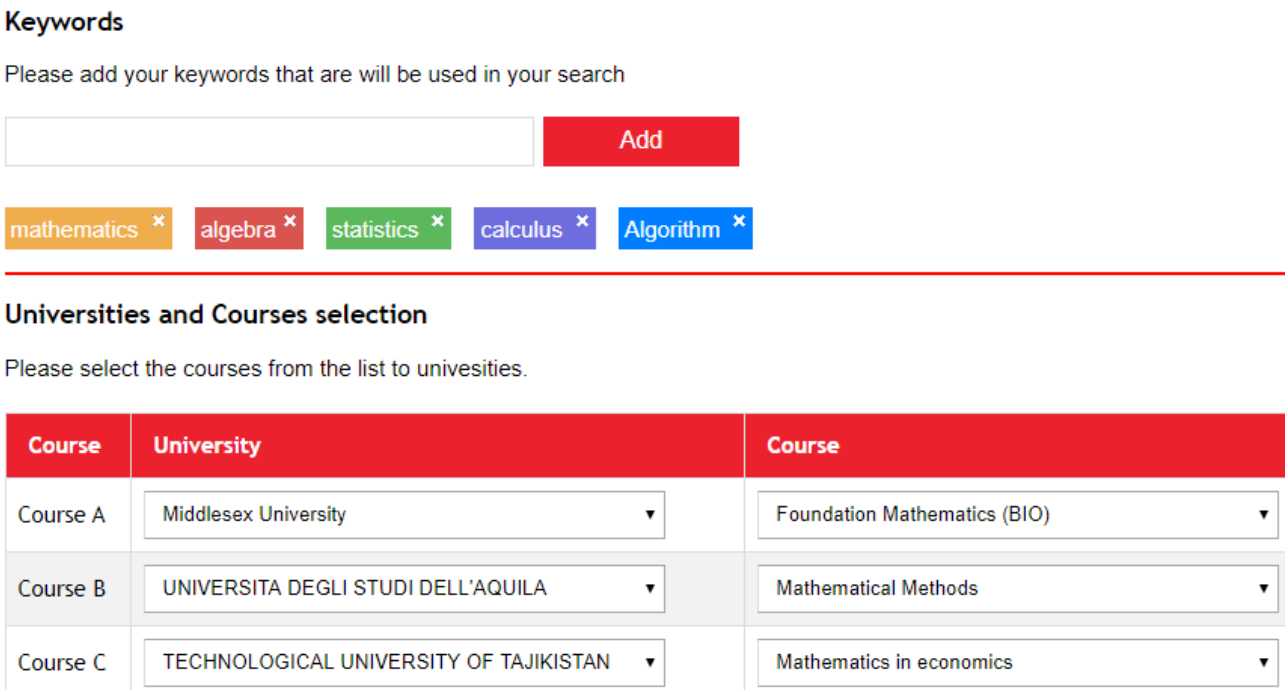
The system will automatically identify the document headings find which previously stored template corresponds to it, and finally copy its content to the field. The user has the option to edit before submitting it.



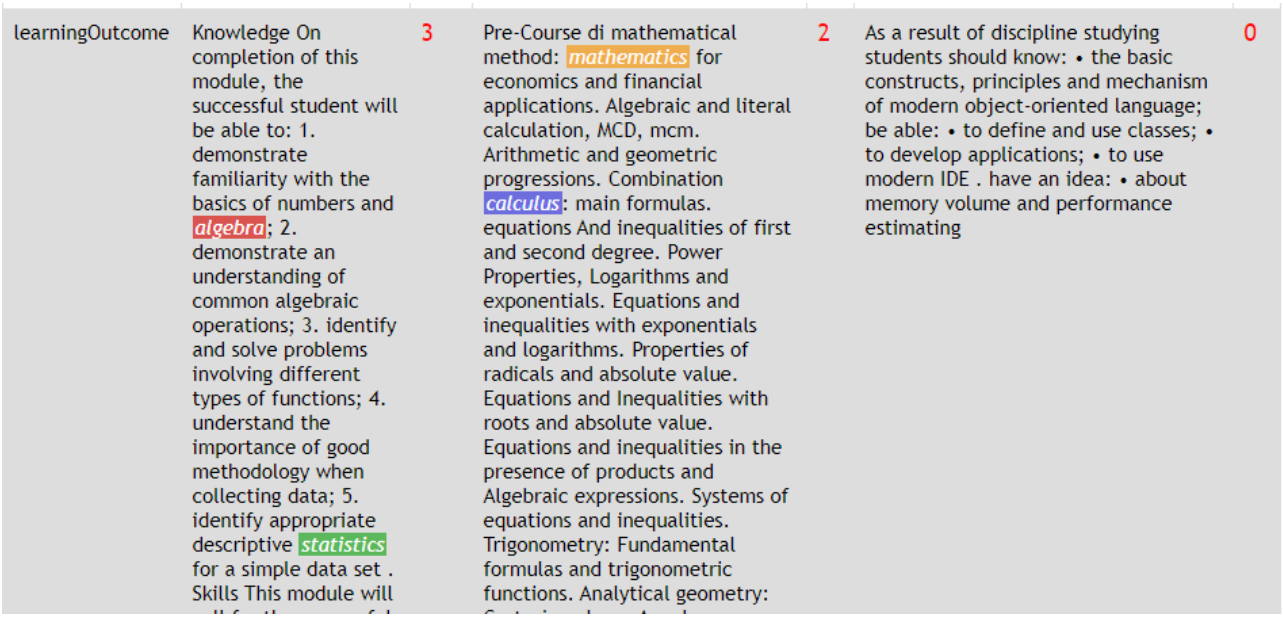
3. Search

3.1 Search -> Compare

Once the institution has uploaded its courses online, it is possible to compare courses from different institutions as shown below. The user can select certain keywords and a simple search will show the instances of the search keywords in both course descriptions using the templates of each institution.



The mapping compares those course description headings that are mapped to the same XCRI-CAP field. In this case the Learning Outcome field is used to compare three courses with regards to the keywords entered by the user.



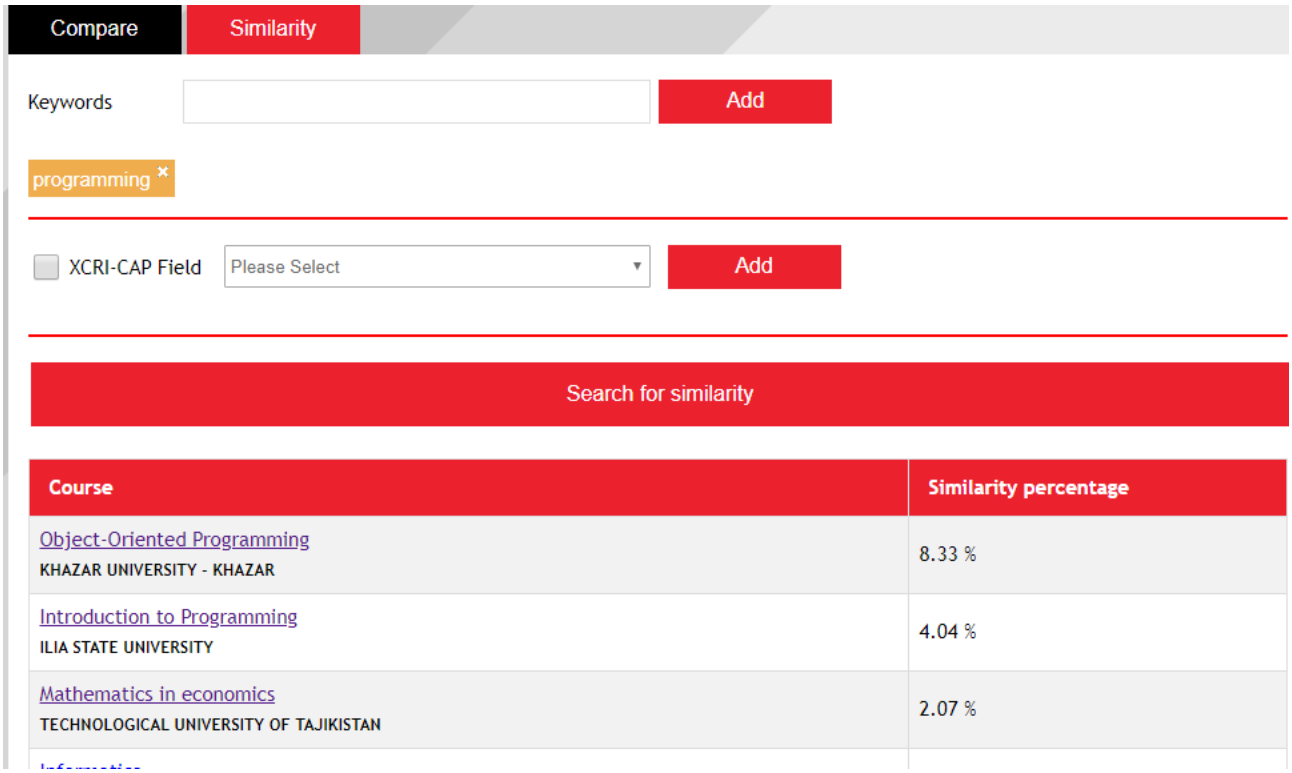
A summary of the keyword presence in each course is provided as a summary of the comparison and is illustrated below.

Keyword result

Keyword	Number of hits
mathematics	5
algebra	4
statistics	3
calculus	0
Algorithm	0
Total	**12**

3.2 Search -> Similarity

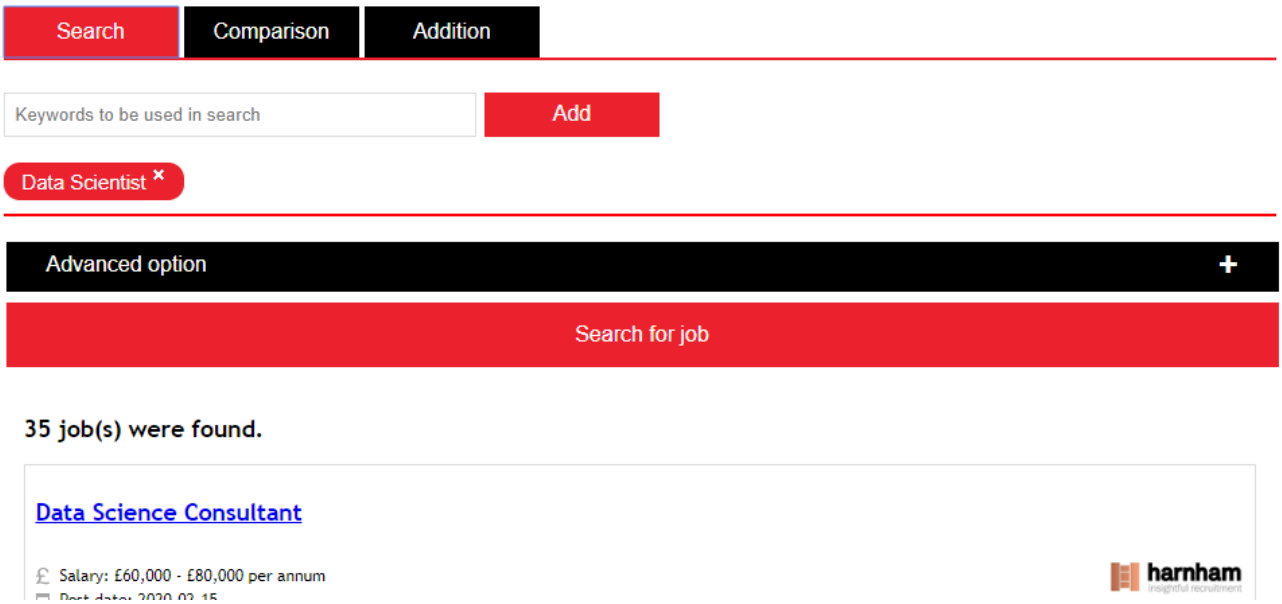
It is also possible to compare the similarity of the different courses against a set of keywords. This is a very helpful function for those students who need to search for courses that are similar to the ones they have at their own institution. This function can help academics when putting together a learning agreement for student mobility.



4. Job

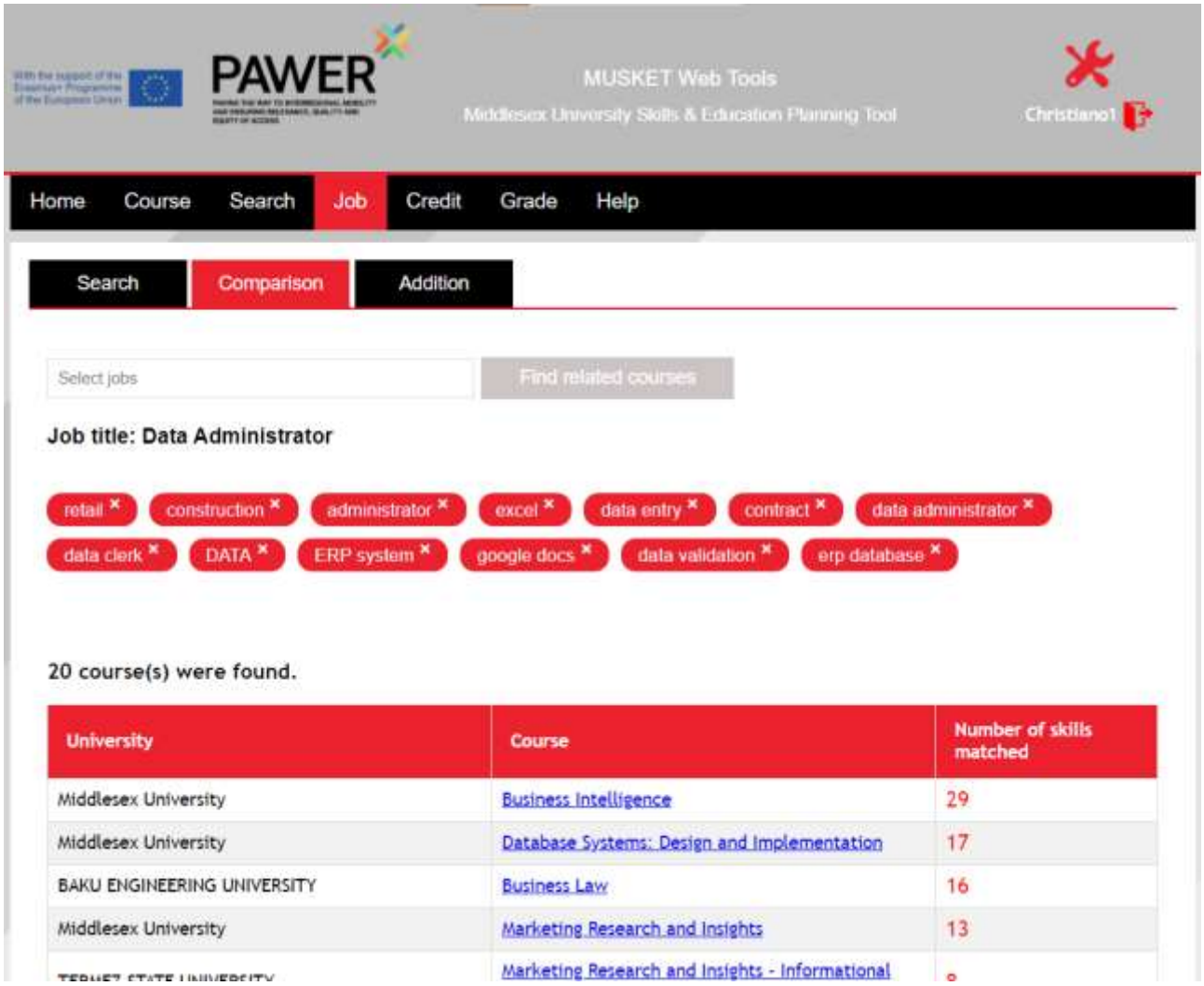
4.1 Job -> Search

The MUSKET tool is connected to a number of job search websites, this means that every Friday it downloads the latest jobs that can be searched using the same keyword sets used for searching for a course. This is shown below.



4.2 Job -> Comparison

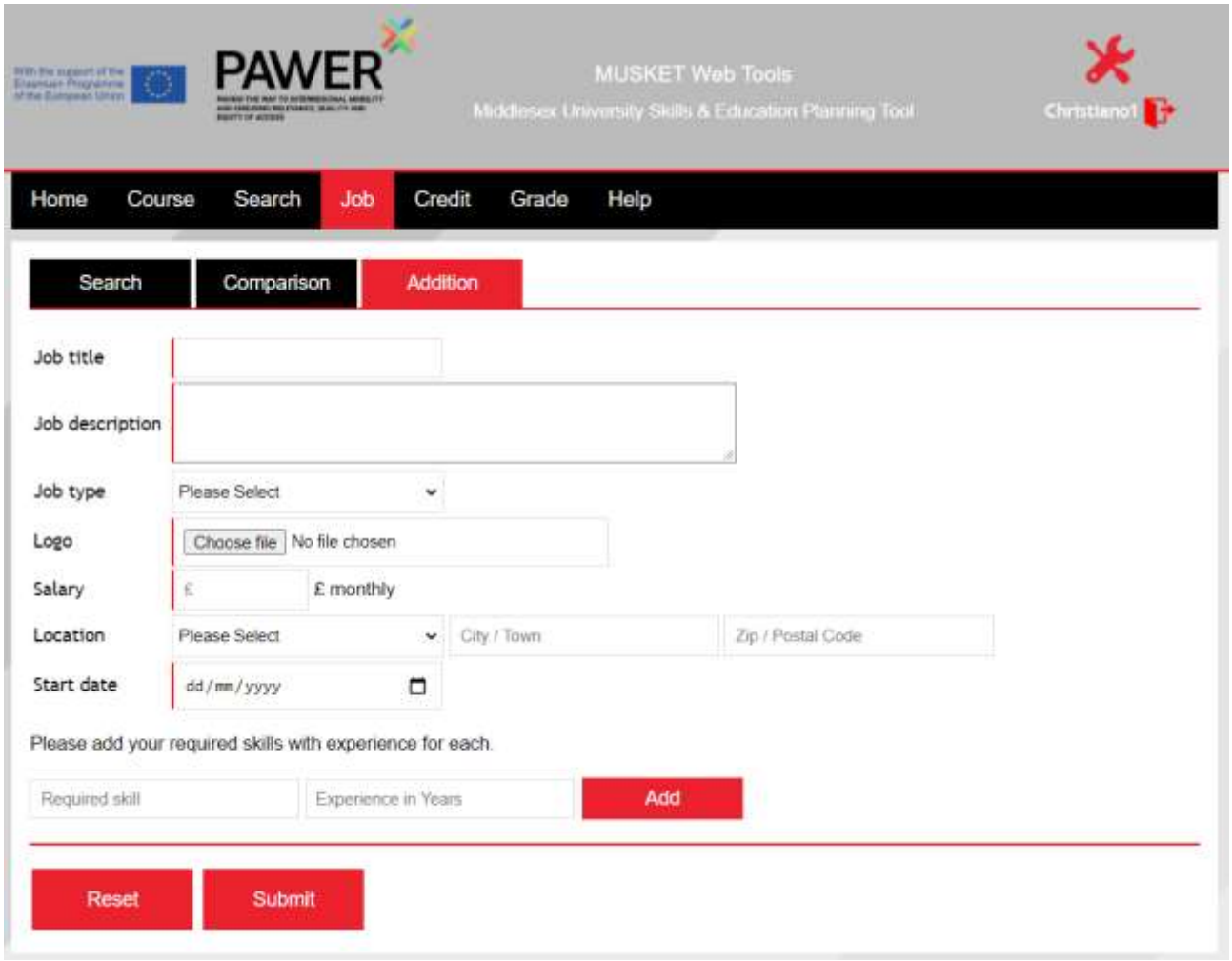
The ability to compare actual jobs allows students to check current jobs relating to the courses they wish to study. Students can also check how a specific job relates to their course and see what aspects of the course are necessary for the job.



Therefore, students can see the relevance of their programme of study and specific courses to actual jobs. This can help them decide on course options according to their preferred career path.

4.3 Job -> Addition

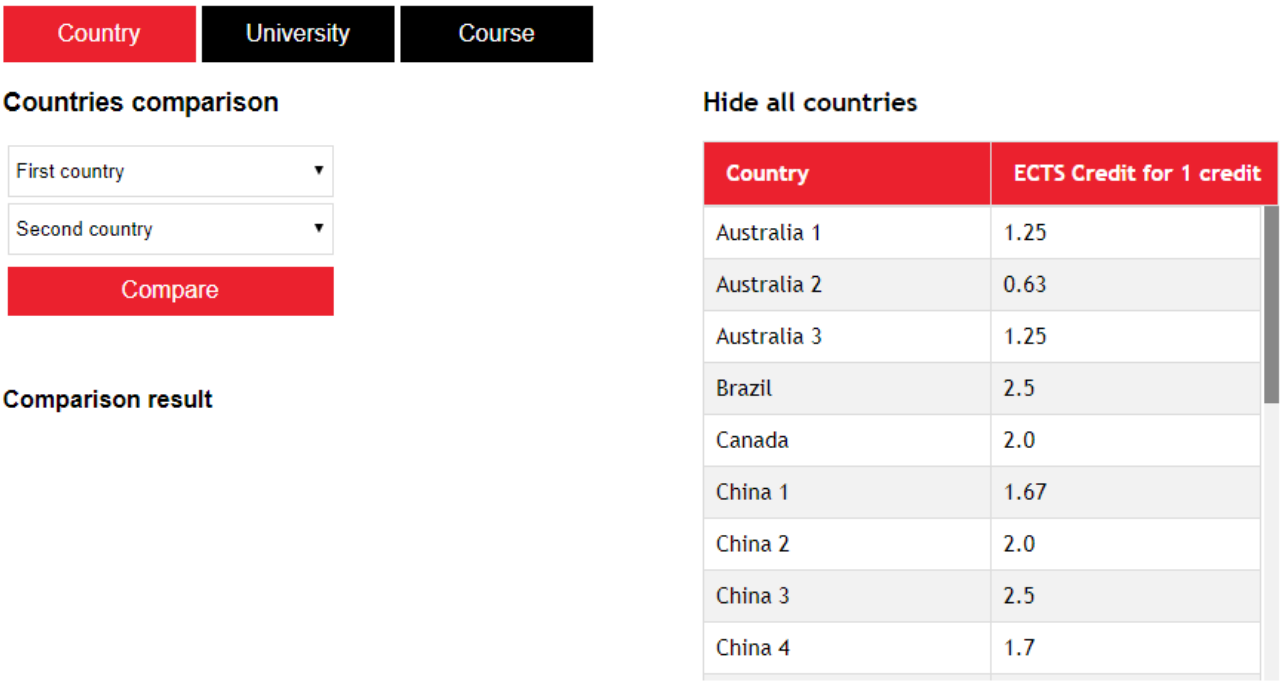
As the system is only able to automatically gather data from pre-defined systems, it may not find a jobs which is available at different places. For this reason, the user can click on the Addition tab and add all the relevant details to an specific job.


PAWER
MUSKET Web Tools
Middlesex University Skills & Education Planning Tool
Christiano1
Home
Course
Search
Job
Credit
Grade
Help
Search
Comparison
Addition
Job title
Job description
Job type
Please Select
Logo
Choose file
No file chosen
Salary
£
£ monthly
Location
Please Select
City / Town
Zip / Postal Code
Start date
dd / mm / yyyy
Please add your required skills with experience for each.
Required skill
Experience in Years
Add
Reset
Submit

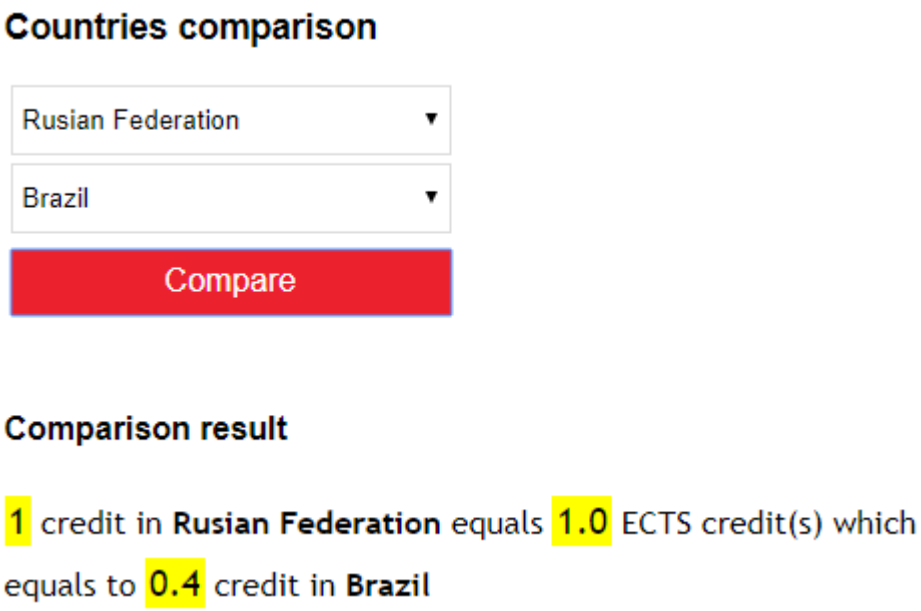
5. Credit

5.1 Credit -> Country

The next step is to proceed with credit recognition. The following figure shows a list of countries and ECTS mappings.

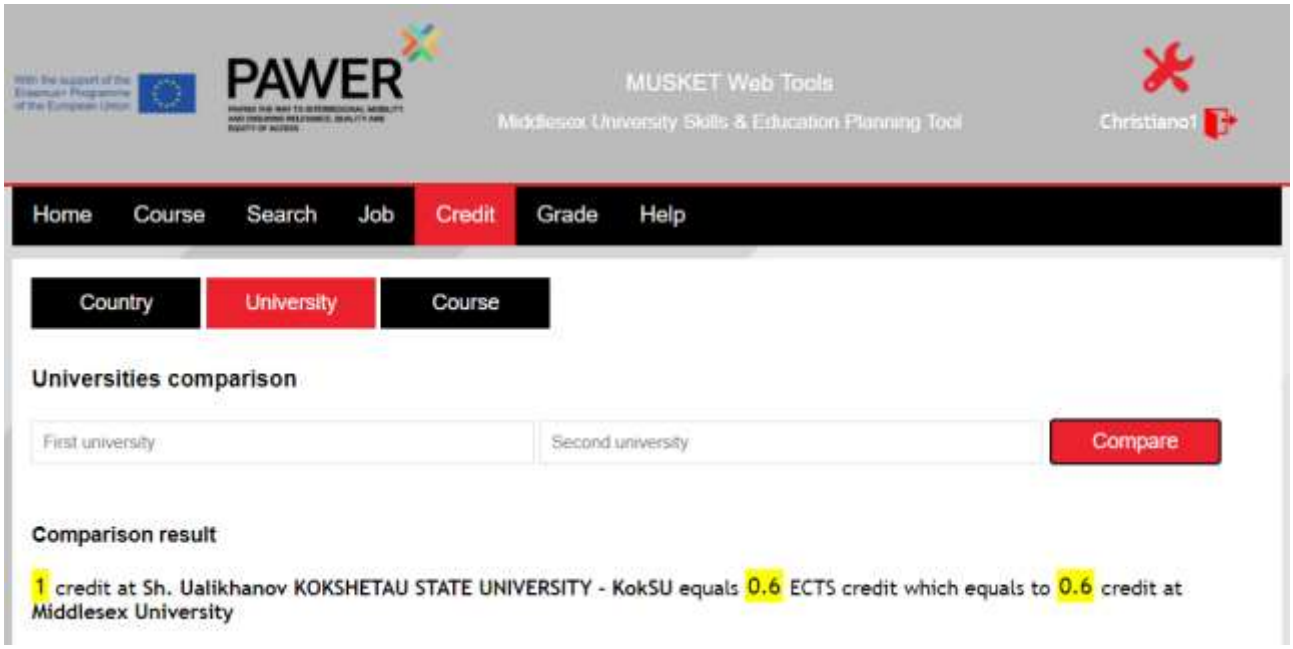


Students can compare between specific countries to see the credit equivalence to ECTS.



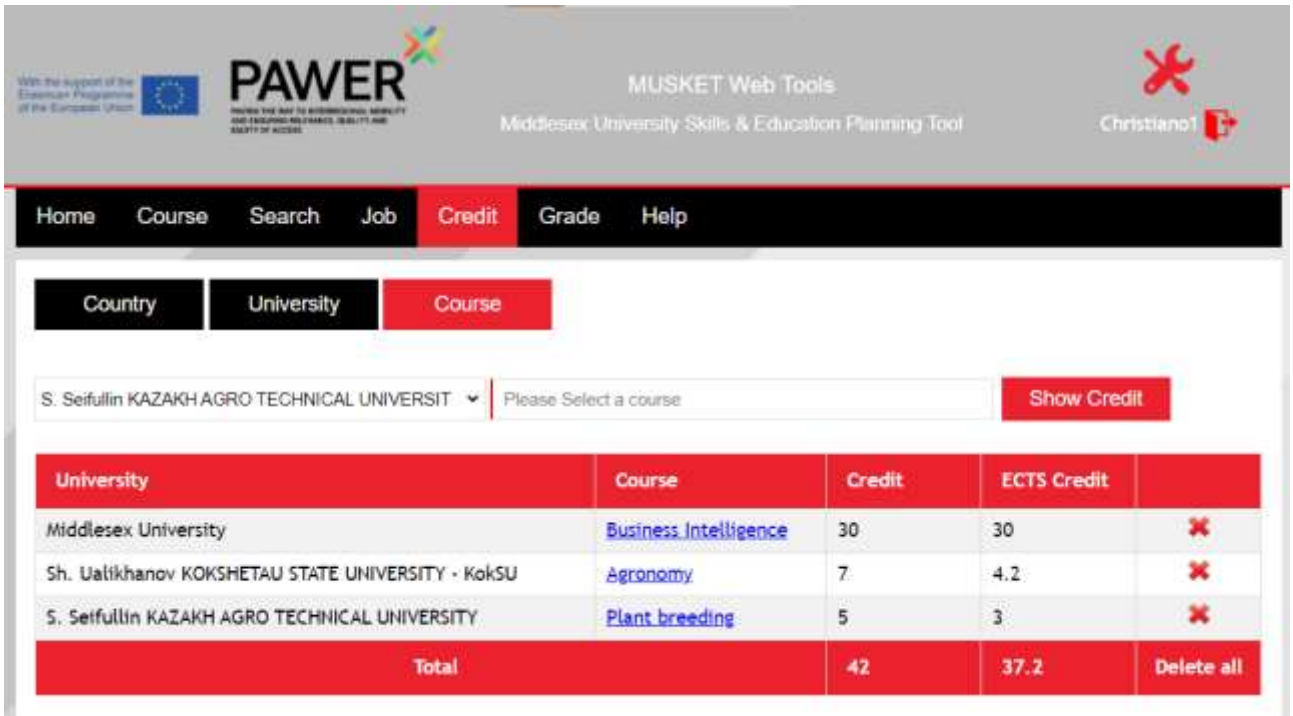
5.2 Credit -> Univeristy

They can also compare different universities as in certain countries several credit systems exist.



5.3 Credit -> Course

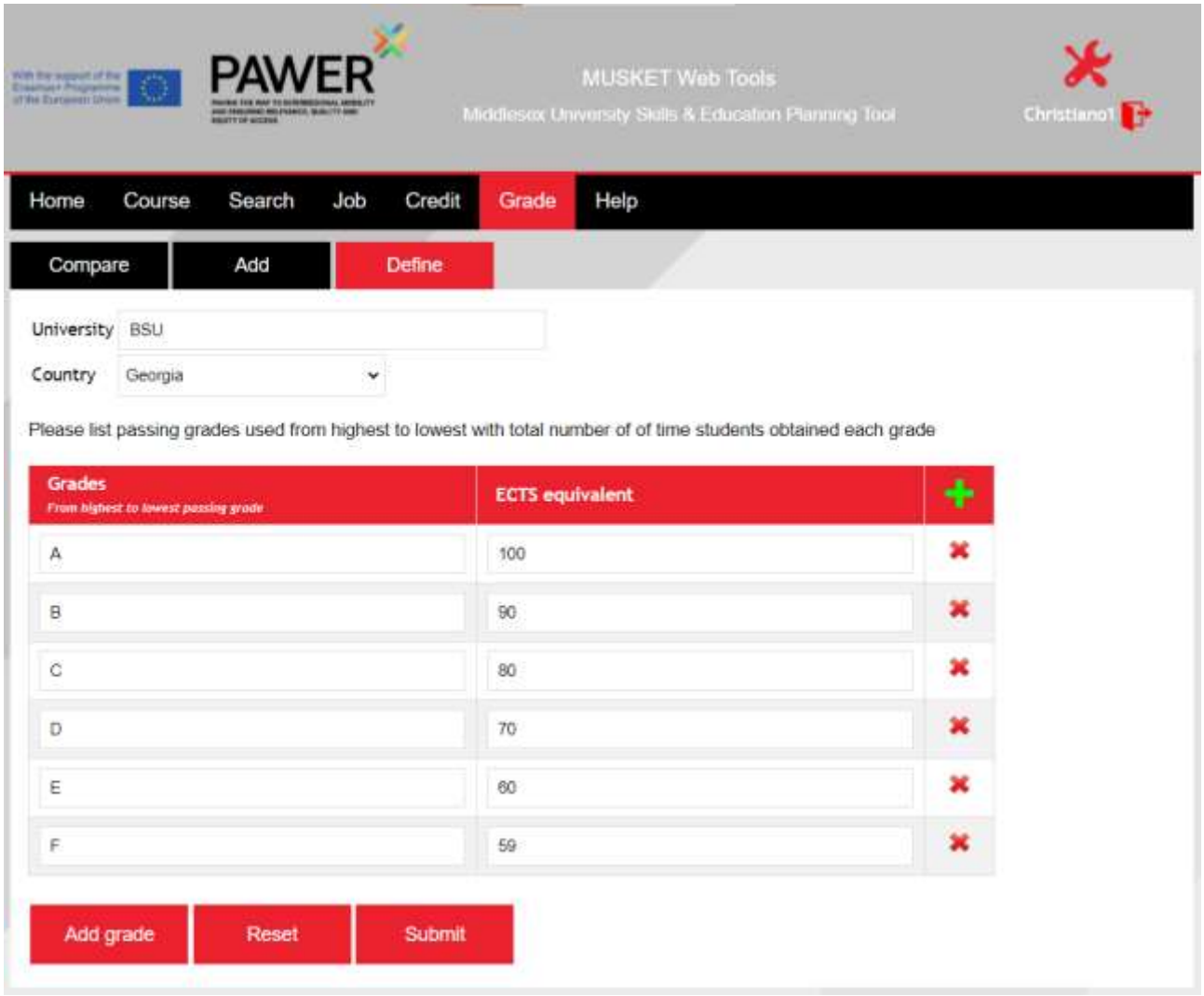
Once students have identified the University they wish to have a mobility exchange with they can start adding courses in order to reach the intended number of ECTS for their learning agreement.



6. Grade

6.1 Grade -> Define

Each institution has an online form to enter grades for the past 3-5 years of a course's assessment. This requires to define its assessment system and map it to ECTS grades.



6.2 Grade -> Add

Once they have defined their grade system, universities need to provide the full grades for each course. For this example, we will be using the grades provided by Batumi Shota University:

BSU

2017 Year

Study course	Number of students	Grade categories and Number of student in each category					
		A	B	C	D	E	F
Macroeconomics	50	2	4	9	10	22	3
Microeconomics	49	1	6	11	15	17	0
Operational management	67	0	6	13	20	25	3
Financial accounting	78	2	8	9	25	33	5
HR Management	72	4	11	17	19	21	0

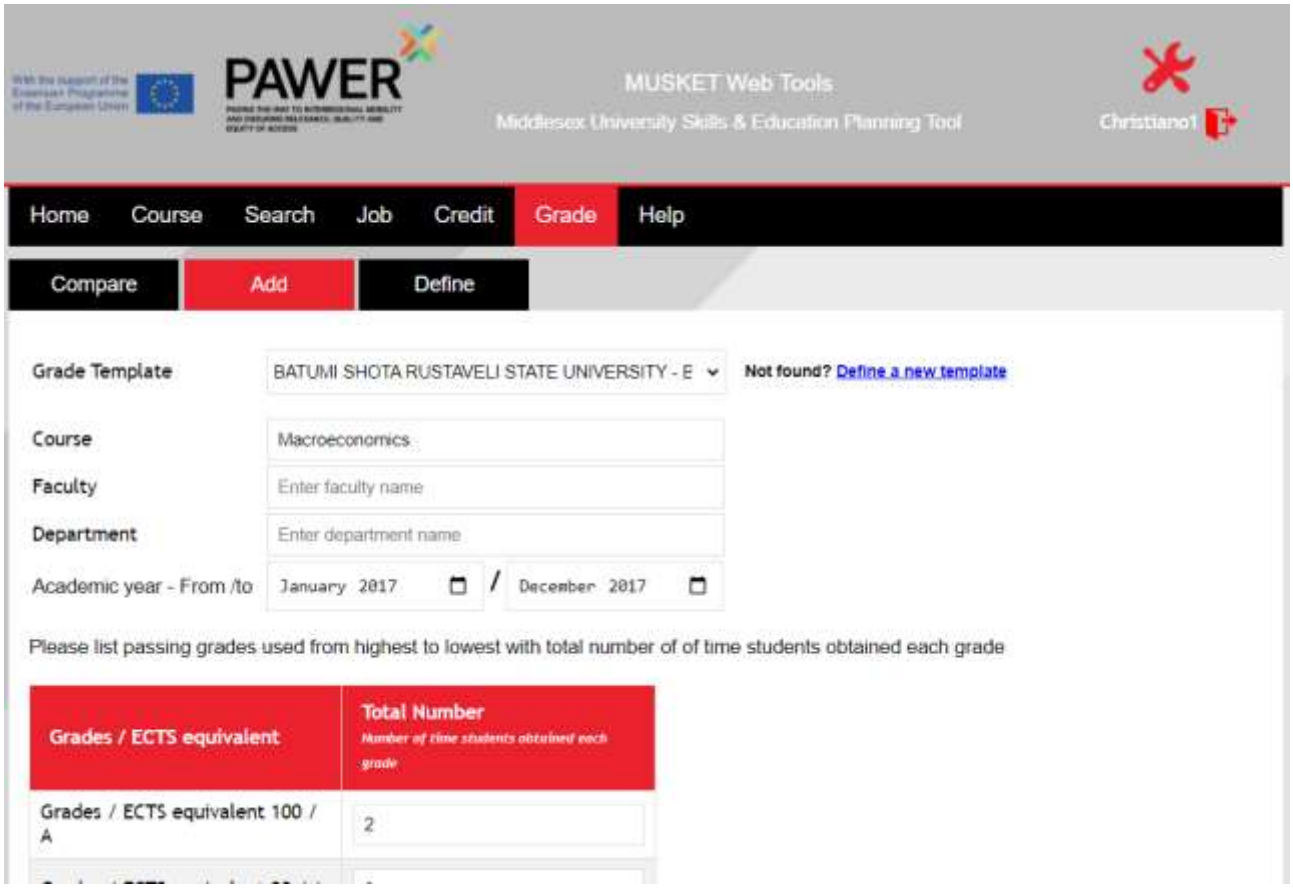
2018 Year

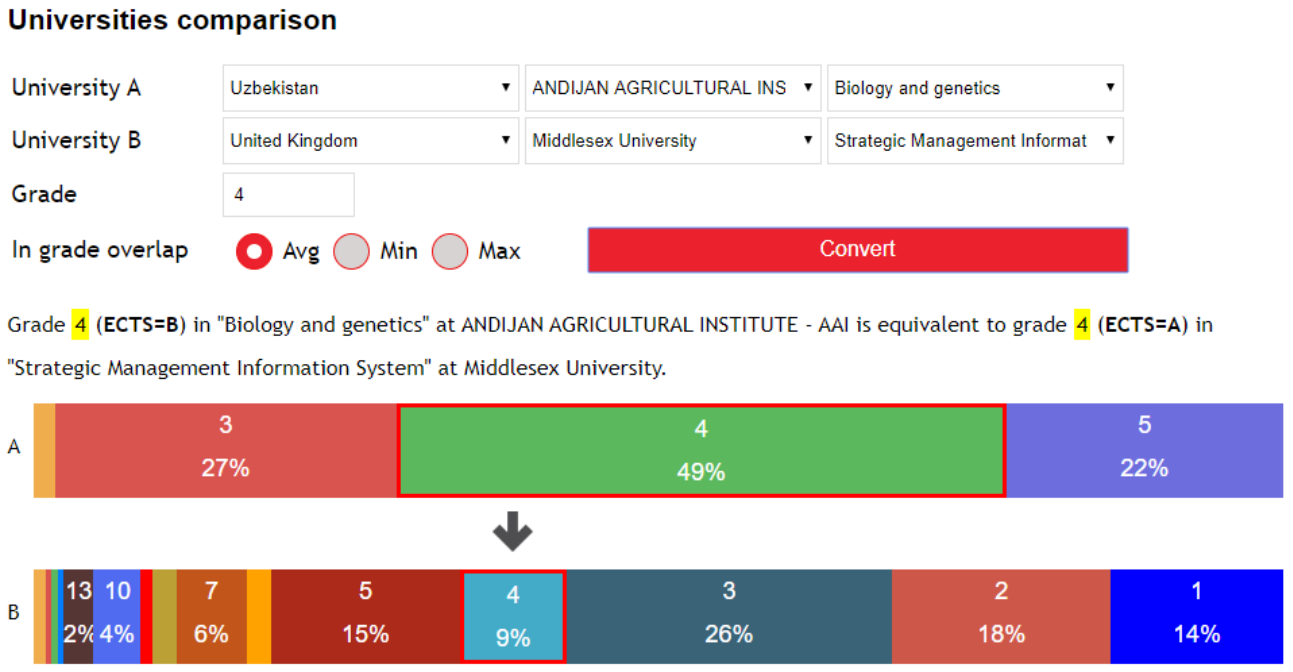
Study course	Number of students	Grade categories and Number of student in each category					
		A	B	C	D	E	F
Macroeconomics	62	4	9	12	10	26	1
Microeconomics	53						
Operational management	46	2	7	11	8	16	2
Financial accounting	63	4	10	9	15	22	3
HR Management	64	7	5	17	17	12	6

2019 Year

Study course	Number of students	Grade categories and Number of student in each category					
		A	B	C	D	E	F
Macroeconomics	39	0	3	9	10	14	3
Microeconomics	57	3	7	9	19	6	3
Operational management	52	2	6	15	9	18	2
Financial accounting	66	3	9	17	14	22	1
HR Management	59	2	8	15	14	17	3

This is done using the form below.



6.3 Grade -> Compare

The final step is to compare specific grades between two Universities, therefore providing advice for the grade conversion after a student mobility has taken place.