

Overviews of PhD enrollment, progression and graduation process in Mongolia

with details and examples from the National University of Mongolia - NUM

1. PhD training process:

Background information:

Entrance, study and graduation processes regulate by the university internal regulations. However, PhD defense process regulates by the Ministry of Education, and PhD candidate shall defend by PhD degree under the PhD defense committee on each science field that consists of up to 15 scientists.

1.1. Entrance process:

Registration of PhD course entrance organizes 2 times in every year (September and January) by the university. A person who has a master's degree in a same science field (natural or social sciences) takes entrance examination. A person who has not a master's degree in a same science field, needs to take the preparation course before take the entrance examination.

A person who passes the entrance exam with 60%, he/she enrolls at the university. PhD student shall develop an own study plan with research topic and supervisor(s) based on the approved PhD curriculum. Same time, it is free to choice own research topic and supervisor(s) later.

Requirement for enrolment:

- ~ Must hold the master degree (research, not professional)
- ~ If a student has the master degree in a different scientific field, he/she must enroll to PhD preparation course (15 credit hours = 5 courses) and must successfully complete prior to enter PhD program.

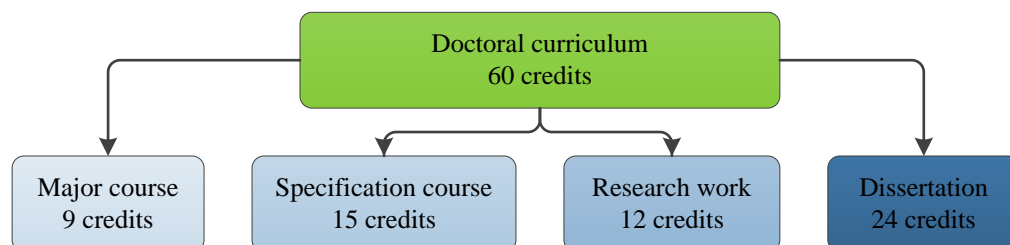
Source: Regulation on enrolling students in master's and doctoral programs

1.2. Study process:

PhD study process takes 2-4 years depends on the individual study plan. During the study, PhD student needs to introduce research progress to department staffs in each semester.

Structure of doctoral program:

Curriculum of doctoral program is consisted of 4 sections and each has different credit hours that PhD student shall collect.



1 credit = 48 academic hours 1 academic hour = 45 minute

Figure 1: Structure of PhD curriculum

The following flowchart shown the entire process of PhD study.

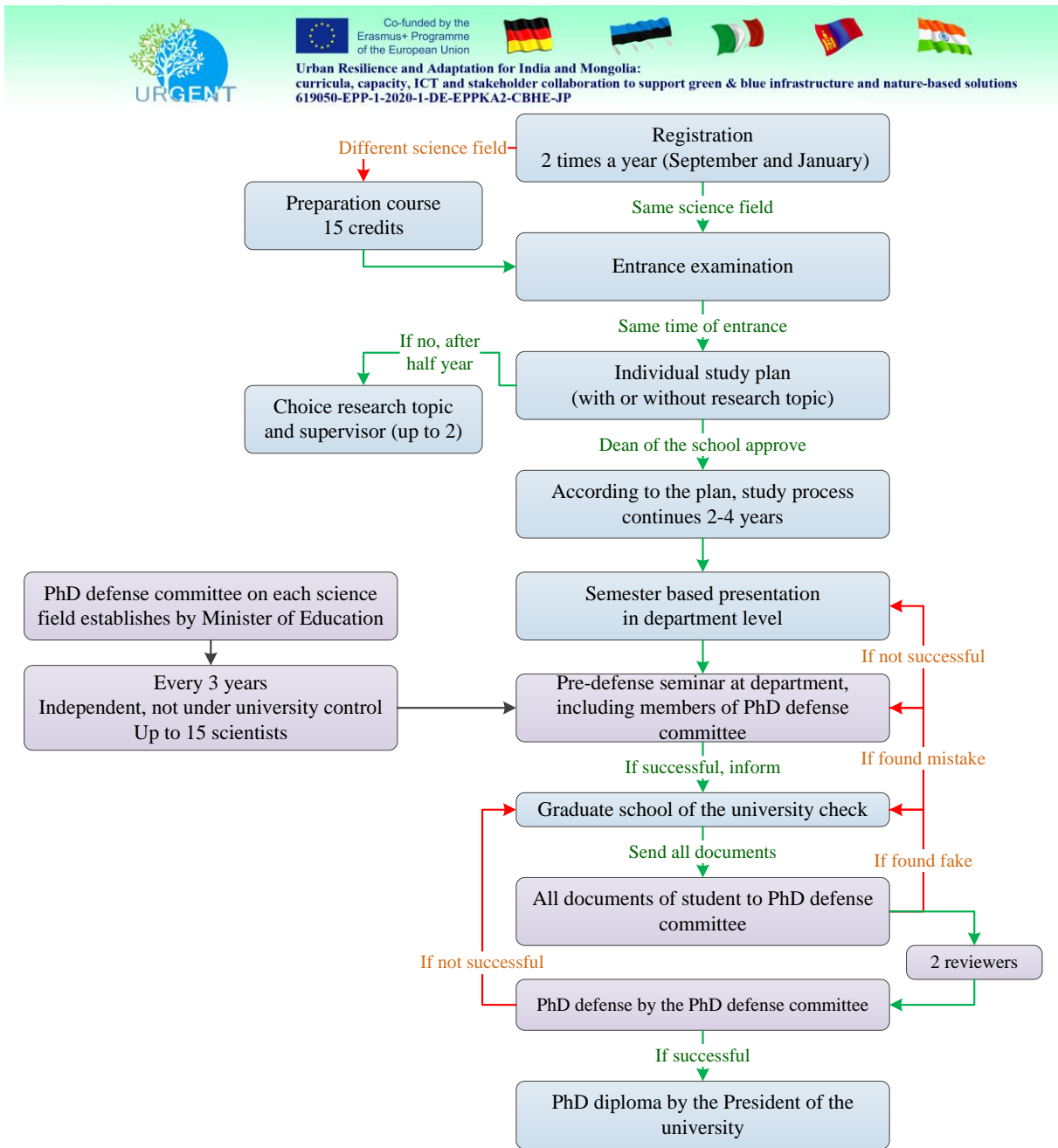


Figure 2: Flowchart of PhD study process

1.3. Graduation process:

When supervisor and student recognize it is ready to defend, then department organizes open pre-defense seminar and invites PhD defense committee members as many as possible. At the end of the seminar, more than 80% of participants who have PhD degree agree to go further than the seminar decision sends to Graduate school of the university. If not agree, PhD student needs to correct his/her research according to comments by seminar participants.

When Graduate school receives the seminar decision, all documents, publication and study process shall check and send to the PhD defense committee. If Graduate school finds some mistake, then it informs to the department.

PhD defense flowchart:

When Secretary of the committee receives a statement on PhD student from Graduate school, again all documents, publication check by the committee. If find fake document, it will inform Graduate school. If everything is OK, then the committee assigns two scientific reviewers for research work.

Two reviewers conclude that research work is good enough to defend, then the committee organizes PhD defense. More than 75% of the committee members should participate. At the end of the defense,

if more than 75% of the arrived members recognize research work is qualified for PhD degree, then this decision informs to the university. The university president gives PhD diploma.

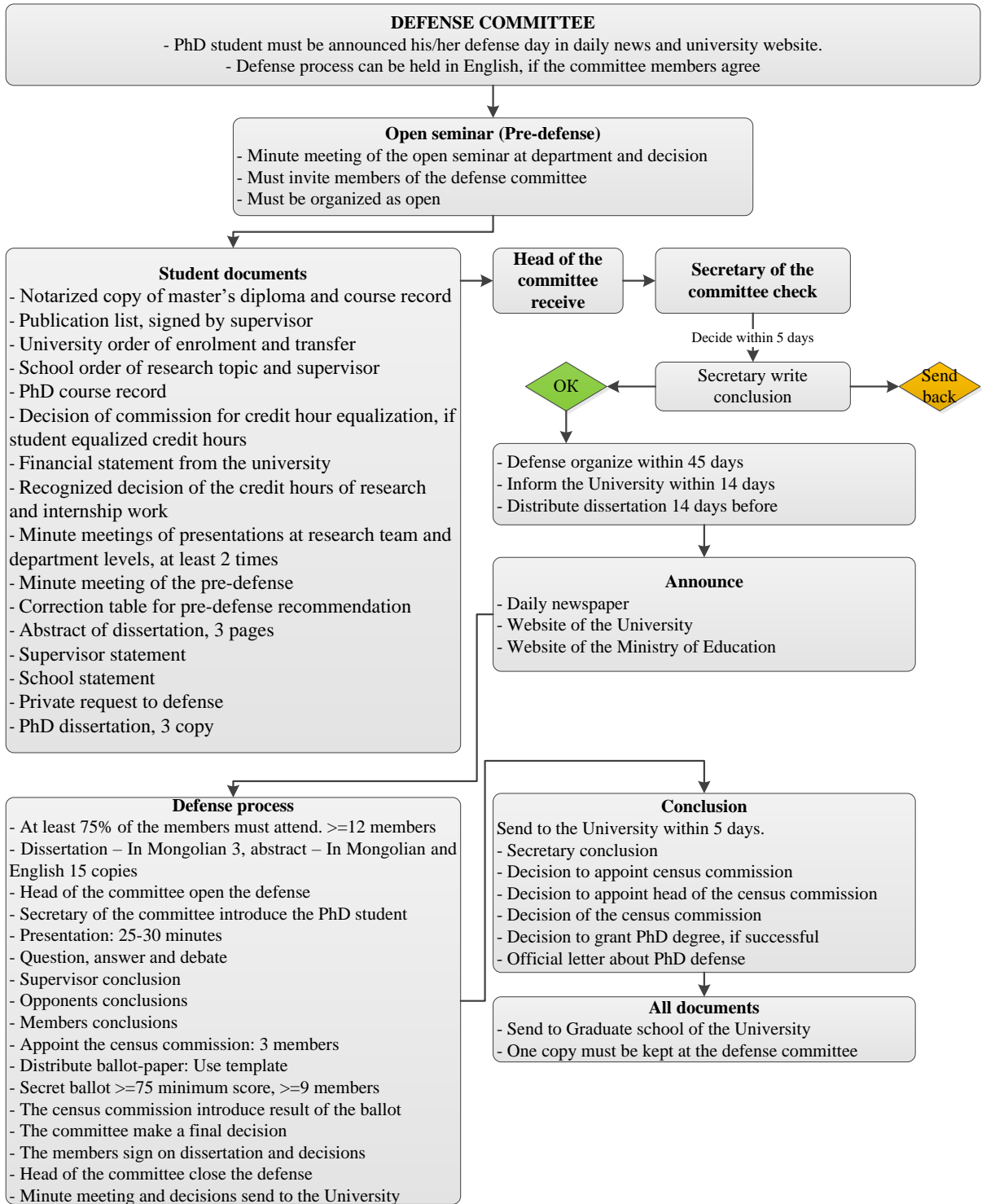









Figure 3: Flowchart of PhD defense process

2. List of PhD students in academic year of 2021-2022

In total, 7 PhD students in field of environmental science are actively studying in the academic year of 2021-2022 at the Department of environment and forest engineering, NUM.

Table 1: The PhD students at NUM in the academic year 2020-2021

№	Student name	Enrolled year	Research topic	Supervisor
1.	T.Atartsetseg	October-2021	Forest management and modeling	Associate professor Ts.Batchuluun
2.	D.Altantsetseg	January-2022	Preparation course	not assigned yet
3.	B.Bayarmaa	September-2020	Air quality and climate	Professor Ch.Sonomdagva
4.	A.Gantuya	October-2021	Energy and environmental issue	Professor O.Altansukh
5.	R.Amartuvshin	September-2021	Special protected area management	Associate professor N.Oyunchimeg
6.	S.Erdenetsetseg	January-2022	Ecosystem services of pasture land	Professor Ch.Sonomdagva Associate professor D.Batsuren
7.	G.Elbegzaya	January-2022	Urban soil study	Doctor D.Batkhisig Associate professor T.Enhdol







Суралцагчийн дугаар	Суралцагчийн мэдээлэл	Төлөв	Хөтөлбөрийн мэдээлэл	Дүнгийн мэдээлэл	Элсэлтийн мэдээлэл
 (21D1NUM0062)	Атарцэцэг (Тэгшжаргал) ШЕ74082206 Дансны үлдэгдэл харах	Идэвхтэй сурч байгаа Өөрчлөх	ID: 1001292061 Хүрээлэн буй орчин судлал (Үндсэн) Доктор/Өдрийн сургалт Төлөвлөгөө: 2021 Өөрчлөх Нэмэх	Судалсан багц цаг: 18 Цуглуулсан багц цаг: 12 Голч оноо: 87.5 Голч дүн: 3.3 Түвшин: 1 Төлөвлөгөөнд байхгүй хичээл: 0	Элссэн он: 2021'10'8 Элсэлтийн тушаал: А/275
 зург байхгүй (21D1NUM0143)	Алтанцэцэг (Даржаа) ЧБ65070901 Дансны үлдэгдэл харах	Идэвхтэй сурч байгаа Өөрчлөх	ID: 1001292061 Хүрээлэн буй орчин судлал (Үндсэн) Доктор/Өдрийн сургалт Төлөвлөгөө: 2021 Өөрчлөх Нэмэх	Судалсан багц цаг: 9 Цуглуулсан багц цаг: 0 Голч оноо: 0 Голч дүн: 0 Түвшин: 1 Төлөвлөгөөнд байхгүй хичээл: 0	Элссэн он: 2022'1'20 Элсэлтийн тушаал: А/24
 (20D1NUM0013)	Баярмаа (Батбаатар) ЧК80111004 Дансны үлдэгдэл харах	Идэвхтэй сурч байгаа Өөрчлөх	ID: 1001292061 Хүрээлэн буй орчин судлал (Үндсэн) Доктор/Өдрийн сургалт Төлөвлөгөө: 2015 Өөрчлөх Нэмэх	Судалсан багц цаг: 18 Цуглуулсан багц цаг: 15 Голч оноо: 92.6 Голч дүн: 3.7 Түвшин: 1 Төлөвлөгөөнд байхгүй хичээл: 0	Элссэн он: 2020'9'22 Элсэлтийн тушаал: А/235
 (18D6NUM0025)	Гантуяа (Ариунсан) АА90072643 Дансны үлдэгдэл харах	Идэвхтэй сурч байгаа Өөрчлөх	ID: 1001292061 Хүрээлэн буй орчин судлал (Үндсэн) Доктор/Өдрийн сургалт Төлөвлөгөө: 2015 Өөрчлөх Нэмэх	Судалсан багц цаг: 24 Цуглуулсан багц цаг: 15 Голч оноо: 91.4 Голч дүн: 3.5 Түвшин: 1 Төлөвлөгөөнд байхгүй хичээл: 7	Элссэн он: 2021'10'8 Элсэлтийн тушаал: А/275
 (21D1NUM0002)	Амартүвшин (Рагчаабазар) ЙЮ74052006 Дансны үлдэгдэл харах	Идэвхтэй сурч байгаа Өөрчлөх	ID: 1001292061 Хүрээлэн буй орчин судлал (Үндсэн) Доктор/Өдрийн сургалт Төлөвлөгөө: 2015 Өөрчлөх Нэмэх	Судалсан багц цаг: 6 Цуглуулсан багц цаг: 9 Голч оноо: 0 Голч дүн: 0 Түвшин: 1 Төлөвлөгөөнд байхгүй хичээл: 0	Элссэн он: 2021'9'27 Элсэлтийн тушаал: А/240
 (21D1NUM0141)	Эрдэнэцэцэг (Сугар) ЙЛ79011709 Дансны үлдэгдэл харах	Идэвхтэй сурч байгаа Өөрчлөх	ID: 1001292061 Хүрээлэн буй орчин судлал (Үндсэн) Доктор/Өдрийн сургалт Төлөвлөгөө: 2015 Өөрчлөх Нэмэх	Судалсан багц цаг: 9 Цуглуулсан багц цаг: 0 Голч оноо: 0 Голч дүн: 0 Түвшин: 1 Төлөвлөгөөнд байхгүй хичээл: 0	Элссэн он: 2022'1'20 Элсэлтийн тушаал: 123
 (21D1NUM0142)	Элбэгзаяа (Ганхуяг) ПЗ88121121 Дансны үлдэгдэл харах	Идэвхтэй сурч байгаа Өөрчлөх	ID: 1001292061 Хүрээлэн буй орчин судлал (Үндсэн) Доктор/Өдрийн сургалт Төлөвлөгөө: 2015 Өөрчлөх Нэмэх	Судалсан багц цаг: 12 Цуглуулсан багц цаг: 0 Голч оноо: 0 Голч дүн: 0 Түвшин: 1 Төлөвлөгөөнд байхгүй хичээл: 0	Элссэн он: 2022'1'20 Элсэлтийн тушаал: А/24

3. List of PhD supervisors

At the Department of environment and forest engineering, NUM, there are 2 professors and 4 associate professors in field of environmental science. All of them, possible to supervise PhD students.

<http://seas.num.edu.mn/dep/defe/aboutus/teachers>

Table 2: Potential supervisors in field of environmental science

Photo	Name	Position	Research field	E-mail
	O. Altansukh	Tenure professor	Water, environmental management	altansukh@seas.num.edu.mn
	Ch. Sonomdagva	Professor	Air quality, environmental management	sonomdagva@seas.num.edu.mn
	B. Batdelger	Associate professor	Air quality, soil quality	batdelger@seas.num.edu.mn
	D. Batsuren	Associate professor	Ecology8 water management	batsuren@seas.num.edu.mn
	N. Oyunchimeg	Associate professor	Special protected area	oyunchimeg@seas.num.edu.mn
	B. Enkhchimeg	Senior lecturer	Health impact assessment	enkhchimeg@seas.num.edu.mn

4. List of ongoing or past projects

National University of Mongolia has own project and research management systems that staffs and students can enter using their official e-mail address.

Research management system <https://research.num.edu.mn/>

Project management system <https://project.num.edu.mn/>

Moreover, information about international and national ongoing and past projects can be found in the main webpage of the university. <https://www.num.edu.mn/Home/Content/3719>

5. List of the conferences recurrently organised by a partner

Since 2019, The department bi-annually organizes International conference on climate change and environment in Central and North-East Asia. <https://sites.google.com/view/icyscce-2021/>

6. List of scientific resources maintained by a partner

Staffs and students of National University of Mongolia can use the following scientific databases using their official e-mail address through the university IP address.

https://library.num.edu.mn/?page_id=3987

Without password: EBSCO host, Royal society, Annual reviews, PNAS, JSTOR, SPIE digital library, The geological society of London, MathSciNet, SAGE publisher, Ecological society of America, Springer

URGENT

Co-funded by the Erasmus+ Programme of the European Union

Urban Resilience and Adaptation for India and Mongolia: curricula, capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature-based solutions 619050-EPP-1-2020-1-DE-EPPKA2-CBHE-JP

EBSCO HOST
МУИС-ийн эрдэм шинжилгээний

ROYAL SOCIETY
Эрдэм шинжилгээний хэвлэлийн

ANNUAL REVIEWS
1932 оноос хойш шинжлэх ухааны

PNAS
THE PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA

JSTOR
1955 онд байгуулагдсан. 30,000

SPIE DIGITAL LIBRARY
1962 оноос хойш гарсан 432,000

THE GEOLOGICAL SOCIETY OF LONDON

THE PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA

SAGE PUBLISHER
Sage publisher нь хүн төрөлхтний хөгжилд хэрэгтэй мэдлэгийг дэлхий нийтэд түгээн дэлгэрүүлэх үйл

ECOLOGICAL SOCIETY OF AMERICA

SPRINGER

With password: AGORA, ARDI, HINARI, OARE, GOALI

AGORA – Access to Global Online Research in Agriculture

ARDI – Access to Research for Development and Innovation

HINARI – Health to Research

OARE – Online Access to Research in the Environment

GOALI – Global Online Access to Legal Information

Also, NUM has own digital library that publicly accessible. <https://catalog.num.edu.mn/>

7. List of available guidelines for PhD Students

Via website of Graduate school of NUM, graduate students can get information and guideline by Mongolian language. <https://gradschool.num.edu.mn/>

The foreign person who wants to study at the university can be registered online using the following link. <http://registration.num.edu.mn/>

For foreign students, Department of students and graduates is responsible for foreign students' service. https://student.num.edu.mn/?page_id=5877