



United Nations
Educational, Scientific and
Cultural Organization

IHE
DELFT

Institute for
Water Education
under the auspices
of UNESCO

It is hereby certified that

Merry Jean Abandonado Caparas

born on 10 January 1997 in Merida Leyte, Philippines

has this day been awarded the degree of

MASTER OF SCIENCE

in Water Management and Governance

DATE AND PLACE

22 April 2022

Delft, the Netherlands

This degree has been conferred on the successful completion of all requirements of the programme including the presentation of a thesis on the subject of

Monitoring of Social Change in Mining Areas Using Remote Sensing

which was approved by an examination committee under the chairmanship of Dr. ir. L.M. Hermans.

RECTOR

Prof. E.J. Moors PhD, MSc

CHAIR EXAMINATION BOARD

K.H. Schwartz PhD, MSc

ACADEMIC REGISTRAR

E.L. Ploeger, MSc





van/of E.J. Moors

The

09 mei 2022 - P.C. Swinkels

MLD618671



INFORMATION ON THE FUNCTION OF THE QUALIFICATION

The MSc degree gives access to the PhD programmes of the Dutch universities and many universities abroad. No extra entrance examinations or courses are needed.

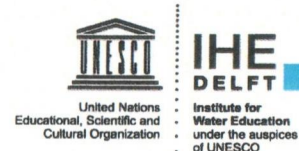
ADDITIONAL INFORMATION

Programme structure

The programme is conducted over a period of 18 months during two academic years.

The **Taught Part** is formed by 13 modules. A module consists of a teaching period (usually 3 weeks) and an exam period (at the end of each two consecutive modules). Modules may be shared between or among specializations and/or programmes.

The **Thesis Research Part** consists of two modules on research methodology and MSc research proposal drafting and defense, followed by a period of six months of individual research and writing of the thesis. The MSc thesis is defended publicly at the end.



DIPLOMA SUPPLEMENT

IHE Delft
Institute for Water Education
Westvest 7
P.O. Box 3015
2601 DA Delft
The Netherlands
T +31 15 2151715
E info@un-ihe.org
W www.un-ihe.org

INFORMATION ABOUT THE IDENTITY OF THE DEGREE HOLDER

Name:	Merry Jean Abandonado Caparas
Date of birth:	10 January 1997
Place of birth:	Merida Leyte, Philippines
Student number:	1047972

INFORMATION ABOUT THE DEGREE

Name of the qualification:	Master of Science in Water Management and Governance
Obtained on:	22 April 2022
Awarding institution:	IHE Delft Institute for Water Education IHE Delft is an international higher education institute affiliated with UNESCO. The institute and its MSc programmes are accredited by the Netherlands-Flemish Accreditation Organisation (NVAO).

INFORMATION ABOUT THE STUDY PROGRAMME

Name of the study programme:	MSc programme in Water Management and Governance
Language of instruction / examination:	English
Mode of study:	Full time

INFORMATION ABOUT THE DEGREE LEVEL

Level of the qualification:	Research university Masters degree
Minimum required credits:	106 ECTS credits
Study load per credit:	1 ECTS equals 28 hours of study load
Entrance requirements:	University-level Bachelor's degree in an appropriate field of study. B2 level of English in the European reference scheme. Preferably several years of relevant working experience.
Accreditation:	Obtained from NVAO on 25 July 2019



SUPPLEMENT CERTIFICATION

Place and date of issue:
Delft, 22 April 2022

Signature:

E.L. Ploeger MSc
Academic Registrar



This Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended.



INFORMATION ABOUT THE CONTENTS AND RESULTS GAINED

Final qualifications of the programme

After successful completion of the programme graduates will be able to:

Knowledge and understanding

1. Place the specialized knowledge gained into a broader understanding of water issues, challenges, debates and developments
2. Analyse biophysical and social processes and appraise principles and approaches relevant to water management and governance
3. Recognize and distinguish different ways of knowing and framing water questions and problems in order to analyse water management and governance processes from an interdisciplinary perspective

Applying knowledge and understanding

4. Draft a research plan, including the formulation of research questions and hypotheses and the selection of research methods, theories and techniques
5. Conduct research independently in a scientifically sound and ethically responsible manner
6. Contribute to interdisciplinary and evidence-based knowledge development and problem solving
7. Analyse and contextualize governance arrangements and (integrated) management approaches to address water issues in socially inclusive and ecologically sustainable ways

Making judgements

8. Interpret research findings critically in order to formulate evidence-based conclusions, solutions and/or recommendations
9. Reflect critically on the implications of water management and governance interventions on society and nature and formulate and defend own standpoint
10. Identify and appraise relevant research, concepts and approaches in view of their potential for helping understand or solve water-related problems
11. Critically discuss and evaluate own research approaches and outcomes within the context of existing knowledge and approaches

Communication

12. Communicate and present effectively, both in writing and orally, making use of information and communication technologies suited for the audience and the purpose
13. Debate and defend findings and insights, in a clear, systematic and convincing manner
14. Communicate effectively across disciplines and cultures to enhance collaborations in teams

Life long learning skills

15. Develop competencies required to further expand their knowledge and skills on their own initiative
16. Reflect on own professional and educational background in order to identify a personal learning trajectory to realize career objectives and professional development goals

RESULTS

Module	Name	Year	Result	Credits
<i>At IHE Delft</i>				
M3771	What and who makes Water Management and Governance expertise?	2020	7.7	9
M3544	Introduction to Water and Development	2021	Pass	1
M3761	Water Resources Management	2021	7.0	5
M3791	Water Governance	2021	6.1	5
M3715	Managing Water Organisations	2021	7.4	5
M3783	Analyzing Water Use Practices - Institutional Analysis	2021	7.8	5
M3708	Water Conflict and Cooperation	2021	6.7	5
M3694	Environmental Planning and Implementation	2021	7.6	5
M3754	Research Project	2021	8.3	5
M3767	Remote Sensing for Water Resources Management	2021	7.0	5
M3637	Water Resources Planning under Changing Climate and Environment	2021	7.8	5
M3777	Fieldwork	2021	Pass	6
M3594	Thesis Research Proposal Development for WMG	2021	Pass	9
The IHE Delft average of the marks mentioned above is			7.4	
<i>At IHE Delft</i>				
M3806	MSc research, thesis and defence	2022	7.8	36
Thesis title: Monitoring of Social Change in Mining Areas Using Remote Sensing				
Committee: Dr. ir. L.M. Hermans (chair)				
Dr. B.S. Schijf (external member)				
C.I.B. Michailovsky PhD, MSc				
J.G. Evers PhD, MSc				
The IHE Delft overall average mark of the MSc programme is			7.5	
Total ECTS				106

GRADING SCHEME

Assessment results (including the thesis examination) are represented on a scale of 1.0 to 10.0, with one decimal of accuracy. Marks 6.0 and higher indicate a pass. The following grading scale is used:

9.0 - 10.0	Excellent
8.0 - 8.9	Very good
7.0 - 7.9	Good
6.0 - 6.9	Sufficient
5.9 and below	Fail

Credits are given for those modules for which a passing mark has been obtained.