

IESM offers new PhD (By Research) Programs

The Institute of Environmental Science & Meteorology (IESM) offers three (3) new PhD (By Research) Programs which emphasize independent study without coursework. These new programs namely (1) Dual PhD Degree Program in Meteorology in Partnership with University of Reading; (2) Doctor of Philosophy (Meteorology); and (3) Doctor of Philosophy (Environmental Science) is effective on A.Y. 2018-2019.

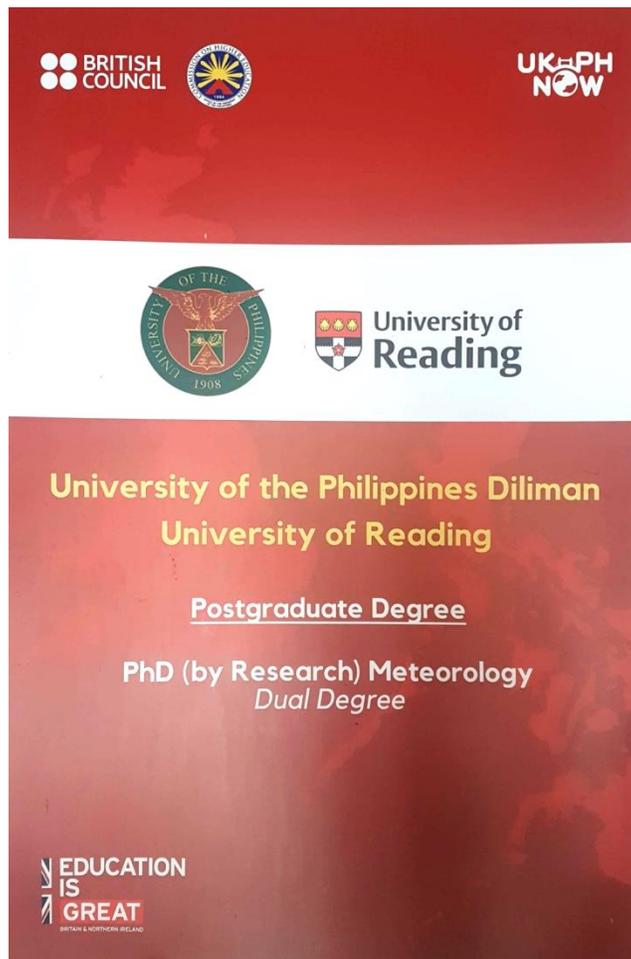
Review of IESM's accomplishments of past and present students reveal that many of those who already have a solid background in the discipline through MS-level courses in Meteorology and Environmental Science and with publication experience need not take more coursework. Instead, these students should concentrate on research and dissertation work to ensure awareness of current issues and progress in the discipline, and to encourage their research productivity. The PhD by Research programs aim to hone skills in analytical and critical thinking, as well as synthesis, as evidenced by the required number of publications.

More than a year in the making, the latest PhD Programs have undergone various curricular committees of the University System as shown in the table below to ensure that all programs are in consonance with the University's academic mission and aspiration to become a globally competitive graduate and research university.

IESM Faculty Workshop (Curricular Mapping & Development of Proposal)	Series of Faculty Workshops conducted in 2017
College Academic Affairs	January 2018
College Executive Board	February 5, 2018
Special College Assembly	March 5, 2018
Curricular Committee	March 19 – 23, 2018
University Council	June 5 – 19, 2018
Presidential Advisory Committee	July 2018
Board of Regents	August 1, 2018

The three PhD (By Research) Programs will be implemented alongside the newly revised and revitalised PhD in Meteorology and Environmental Science Programs. These new options will cater students with a solid foundation in the fundamentals of Meteorology and Environmental Science and/or long-time practitioners in the field, who have demonstrated capabilities in research (evidenced by a peer-reviewed publication).

INSTITUTION OF DUAL PHD (METEOROLOGY) IN PARTNERSHIP WITH UNIVERSITY OF READING

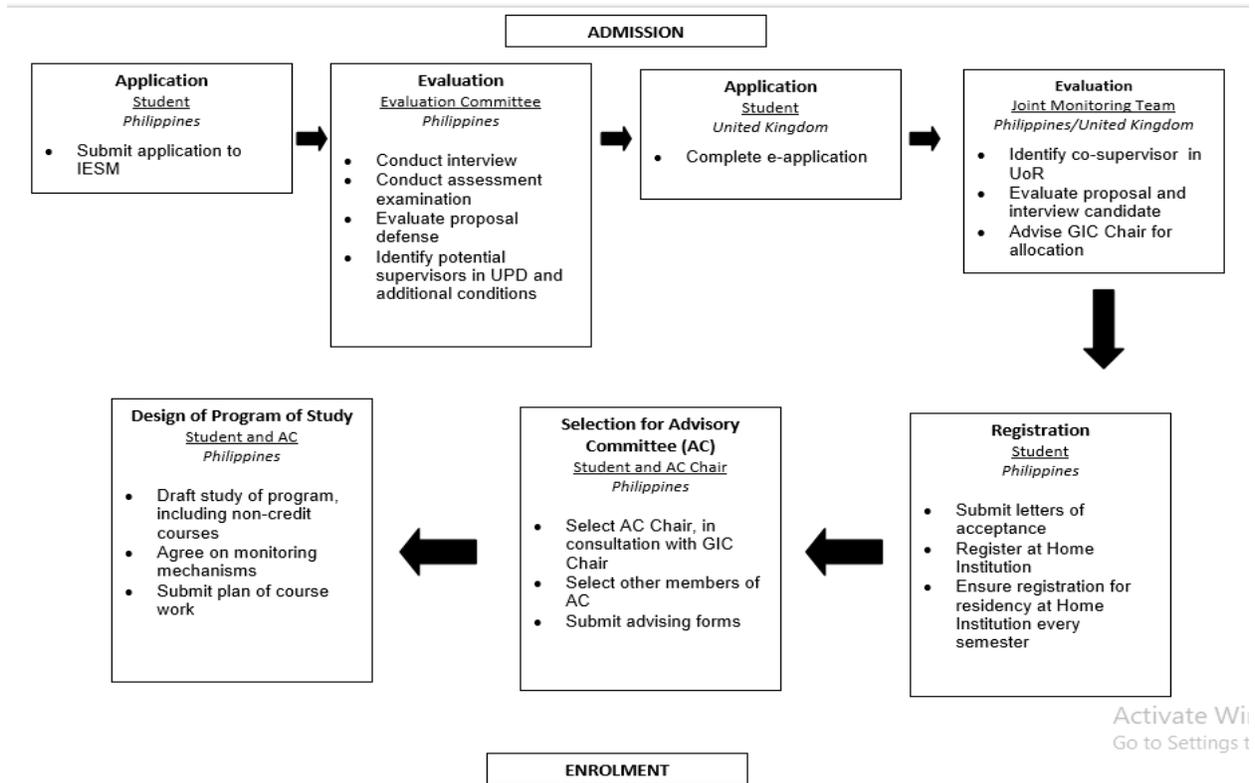


IESM and the University of Reading (UoR) offer the opportunity to pursue a Dual PhD degree program in Meteorology. The joint academic undertaking with the UoR furthers the goal of UP IESM in solving critical problems in the natural environment, particularly weather and climate in the tropics. It also gives opportunities and networks for IESM faculty and staff development and will expose graduates of this program to different cultures and worldviews, experience diverse facilities and resources, and veritable international recognition of their education. On the part of the university's researches, closer cooperation with international collaborators heightens their global visibility and boosts research quality.

IESM is the sole institution offering graduate degrees in Meteorology in the country. In 2017, IESM revised its curriculum to incorporate advanced courses on computational and imaging techniques in weather forecasting and climate modeling, which are expected to improve understanding of the changing climate and vulnerability to extreme events. The Institute taps the expertise of UoR, ranked 2nd in the world for research in Meteorology and Atmospheric Sciences, to further its goal of solving critical problems in the natural environment, particularly weather and climate in the tropics.

This program will be delivered as part of the Transnational Education- Joint Development of Niche Programmes (TNE-JDNP). The new program option will benefit the students by providing necessary knowledge and skills to be more responsive to the current scientific and societal needs.

Process Flow of Admission and Enrolment



Admission Requirements

1. A graduate of an MS Meteorology or related field from a recognized institution of higher learning with at least 24 units of graduate courses;
2. At least one (1) publication in the field of Meteorology/Atmospheric Sciences in the last five years in a peer-reviewed journal (e.g. Web of Science/Scopus indexed) in which the applicant is the primary author, as defined by the Institute;
3. Passing assessment examinations, and interview process administered by the Institute.
4. Presentation of a capsule proposal for dissertation research and acceptance of a faculty member of the Institute as prospective dissertation advisee;
5. Passing an English Proficiency Test as per University Policy for foreign applicants whose medium of instruction in the previous degree programs is not English; and
6. Application to the UoR through the website indicating the dual degree programme. A discussion will then be held between UoR and UPD on the best supervisory team to meet the student's requirements and have complementary skills. Students will be required to meet the standard entry requirements at UoR. They can apply for a PhD projects through the website or propose their own project.

DOCTOR OF PHILOSOPHY (METEOROLOGY) OPTION 3

The proposed PhD (Meteorology) Option 3 is a new option intended specifically for MS graduates in Meteorology and Atmospheric Sciences. This capitalizes on the existing and projected collaborative researches among local faculty members of the IESM, College of Science and other UP constituent units. The new program option will benefit the students by providing necessary knowledge and skills to be more responsive to the current scientific and societal needs.

Specifically, the PhD (Meteorology) Option 3 is proposed to address the following objectives:

1. increase the number of publications dealing with local atmospheric and meteorological phenomena,
2. provide research-track opportunities to qualified students.
3. capitalize on the existing and projected local expertise in Meteorology outside of the academe, and synergize as collaborative research in IESM.

Program of Study

Courses	No. of Units
METEO 395 Advanced Studies in Meteorology - to be taken three times	12
METEO 396 Research Seminar - to be taken two times	2
METEO 400 Ph.D. Dissertation	12
Total	26

Admission Requirements

1. A graduate of an MS Meteorology or related field from a recognized institution of higher learning with at least 24 units of graduate courses;
2. At least one (1) publication in the field of Meteorology/Atmospheric Sciences in the last five years in a peer-reviewed journal (e.g. Web of Science/Scopus indexed) in which the applicant is the primary author, as defined by the Institute;
3. Passing assessment examinations, and interview process administered by the Institute;
4. Presentation of a capsule proposal for dissertation research and acceptance of a faculty member of the Institute as prospective dissertation advisee; and
5. Passing an English Proficiency Test as per University Policy for foreign applicants whose medium of instruction in the previous degree programs is not English.

DOCTOR OF PHILOSOPHY (ENVIRONMENTAL SCIENCE) OPTION 3

In the College of Science, the normal mode for PhD is with 58 (with BS degree) and 37 (with MS Env Sci degree) units of required course work. The proposed option is a model that differs from the existing one in the amount of required research work and with no course work.

In line with the objectives of the College of Science to produce new knowledge and develop more scientists, a PhD (Environmental Science) Option 3 will increase the scientific productivity by guided publication output responsive to current and emerging environmental issues.

The PhD (Environmental Science) Option 3 is proposed to address the following objectives:

1. provide research-track opportunities to qualified students towards obtaining a PhD degree in a shorter span of time;
2. increase the number of environmental scientists who will help address the evolving societal needs, and;
3. increase the number of publications in Environmental Science that are responsive to the current and emerging issues.

Program of Study

Courses	No. of Units
Env Sci 395 Advanced Studies in Environmental Science - to be taken three times	12
Env Sci 296 Research Seminar - to be taken two times	2
Env Sci 400 Ph.D. Dissertation	12
Total	26

Admission Requirements

1. A graduate of an MS Environmental Science or related field from a recognized institution of higher learning with at least 24 units of graduate courses;
2. At least one (1) publication in the field of Environmental Science in the last five years in a peer-reviewed journal (e.g. Web of Science/Scopus indexed) in which the applicant is the primary author, as defined by the Institute;
3. Passing assessment examinations, and interview process administered by the Institute.
4. Presentation of a capsule proposal for dissertation research and acceptance of a faculty member of the Institute as prospective dissertation advisee; and
5. Passing an English Proficiency Test as per University Policy for foreign applicants whose medium of instruction in the previous degree programs is not English.