

# Distance Learning Opportunities with WEDC

Information for applicants



Develop your career through  
flexible learning



Loughborough  
University

# Programmes & Awards

## There are three programmes

- Water and Waste Engineering
- Water and Environmental Management
- Infrastructure in Emergencies

## Each programme has four levels of award

- Master of Science (MSc) Study **9** modules
- Postgraduate Diploma (PGDip) Study **8** modules
- Postgraduate Certificate (PGCert) Study **4** modules
- Professional Development (PD) Study **individual** modules

Find out more at: [wedc.lu/levels-of-learning](http://wedc.lu/levels-of-learning)

## Accreditation and relevance

All three programmes at PGCert, PGDip and MSc levels are accredited by the Chartered Institute of Water and Environmental Management (CIWEM).

All three programmes at MSc level are accredited by the Joint Board of Moderators (JBM) as meeting the 'further learning' requirements needed by graduates who already have acquired an accredited CEng (partial) BEng (Hons) undergraduate first degree, in order for them to achieve the status of Chartered Engineer.

## Objectives of the programmes

All MSc programmes are suitable for recent graduates or mature professionals wishing to develop their careers. The programmes have the same general objectives which are:

- to equip participants with appropriate expertise and skills to work in low- and middle-income countries; and
- to provide an opportunity for specialisation in one topic through in-depth study during the *Research Dissertation* module.

The additional specific objectives for each programme are shown on the following pages.

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## Module choices

Each programme has a specific number of modules. Some of these may be optional (O) and some are compulsory (C) as shown in the tables provided for each programme on the following pages.

All modules carry 15 credits except the *Research Dissertation* which is a 60-credit module.

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## About WEDC & Loughborough University

The Water, Engineering and Development Centre (WEDC) is one of the world's leading education and research institutes developing knowledge and capacity to support the sustainable delivery of water and sanitation services and emergency relief.

We are known and respected for our high quality postgraduate training programmes which have supported the career development of sector professionals for over 40 years. Two programmes can be studied in at WEDC in the UK and three programmes can be studied by distance learning.

We were awarded one of Loughborough's seven Queen's Anniversary Prizes for Higher and Further Education, cited as providing 'outstanding support for developing countries'.



We are proud to be part of the School of Architecture, Building and Civil Engineering at Loughborough University which is currently ranked 7th in the UK Complete University Guide for 2017.

**Ranked 7th in the  
Complete University Guide for 2017**



# Water & Waste Engineering (WWE)

This programme is aimed at graduate engineers who wish to specialize in water and wastewater engineering from an international perspective.

The programme has the specific objective of developing participants understanding of important aspects of sustainable public health infrastructure and services.



Postgraduate level:		MSc	Diploma	Certificate
<b>Number of compulsory modules (C)</b>		<b>5</b>	<b>3</b>	<b>2</b>
<b>Number of optional modules to choose (O)</b>		<b>4</b>	<b>5</b>	<b>2</b>
Modules	Start			
Water and Environmental Sanitation	January	C	C	C
Management of Water and Sanitation	July	C	C	C
Data Collection, Analysis and Research	January	C	O	
Case Study	July	C	C	
Research Dissertation	January / July	C		
Low-cost Sanitation	July	O	O	O
Water for Low-income Communities	January	O	O	O
Solid Waste Management	January	O	O	O
Wastewater Treatment	July	O	O	O
Urban Infrastructure	January	O	O	O
Water Utilities Management	January	O	O	
Integrated Water Resources Management	July	O	O	
Environmental Assessment	January	Not available for WWE Programme		

# Water & Environmental Management (WEM)

This programme, suitable for graduates from a variety of backgrounds, has the specific objective of developing participants understanding of the principles and practices of water and environmental management for the public good.

The programme focuses on water supply and sanitation but also includes study of water resources and environmental issues from an international perspective.



Postgraduate level:		MSc	Diploma	Certificate
<b>Number of compulsory modules (C)</b>		<b>7</b>	<b>5</b>	<b>4</b>
<b>Number of optional modules to choose (O)</b>		<b>2</b>	<b>3</b>	<b>0</b>
Modules	Start			
Water and Environmental Sanitation	January	C	C	C
Management of Water and Sanitation	July	C	C	C
Environmental Assessment	January	C	C	C
Integrated Water Resources Management	July	C	C	C
Data Collection, Analysis and Research	January	C	O	
Case Study	July	C	C	
Research Dissertation	January / July	C		
Low-cost Sanitation	July	O	O	
Water for Low-income Communities	January	O	O	
Solid Waste Management	January	O	O	
Wastewater Treatment	July	O	O	
Water Utilities Management	January	O	O	
Urban Infrastructure	January	Not available for WEM Programme		

Accredited by the Chartered Institute of Water and Environmental Management (CIWEM) and by the Joint Board of Moderators (JBM)



# Infrastructure in Emergencies (IIE)

This programme is aimed at graduates. Its specific objectives are to develop participants understanding of the principles and practice of infrastructure design, management and provision in emergency situations and to equip them with appropriate expertise and skills for relief and reconstruction work in low- and middle-income countries.



Postgraduate level:		MSc	Diploma	Certificate
<b>Number of compulsory modules (C)</b>		<b>6</b>	<b>4</b>	<b>4</b>
<b>Number of optional modules to choose (O)</b>		<b>3</b>	<b>4</b>	<b>0</b>
Modules	Start			
Introduction to Infrastructure in Emergencies	July	C	C	C
Emergencies Management and People	January	C	C	C
Emergency Water Supply	July	C	C	C
Emergency Sanitation	January	C	C	C
Research Dissertation	January / July	C		
Data Collection, Analysis and Research	January	C	O	
Wastewater Treatment	July	O	O	
Water Utilities Management	January	O	O	
Environmental Assessment	January	O	O	
Urban Infrastructure	January	O	O	
Integrated Water Resources Management	July	O	O	
Other modules on WEM and WWE programmes are not available for IIE				

## Professional Development



All but two of our modules (\*see table below) can be studied individually as part of your professional development. This will be useful to develop your knowledge and skills in a particular area and may help towards you joining a professional body. A lower standard of entry is required when studying individual modules for professional development than for our main programmes. If you achieve a mark of 50% or more in each of four relevant modules studied by this route it may be possible to upgrade to the award of Postgraduate Certificate in one of the three programmes mentioned above. It may also be possible to then go on to complete a Diploma or an MSc.

### Module Timetable

Studied 15 January – 15 June (All are 15-credit modules)	Studied 15 July – 15 December (All are 15-credit modules)
Water and Environmental Sanitation	Management of Water and Sanitation
Water for Low-income Communities	Low-cost Sanitation
Solid Waste Management	Integrated Water Resources Management
Urban Infrastructure	Wastewater Treatment
Water Utilities Management	
Data Collection, Analysis and Research	
Environmental Assessment	Case Study (Diploma and MSc only)*
Emergencies Management and People	Emergency Water Supply
Emergency Sanitation	Introduction to Infrastructure in Emergencies
<b>Studied 15 Jan – 3 Dec or 15 July – 3 June (46 weeks or 98 weeks)</b>	
This is a 60-credit module	
Research Dissertation (MSc only)*	

### Cost savings

Our distance learning programmes will be of particular interest if you are unable to take time away from your work or home to undertake a full-time residential course, or if you or your employer (or sponsor) wish to save on the cost of travelling to the UK to live and study in Loughborough.



# Modules & Flexible Learning



## Join a global community of students!

Students from 88 different countries have studied with WEDC by distance learning. In May 2015 we had 228 students studying, from 47 different countries:

Australia	Kenya
Bahrain	Laos
Barbados	Malawi
Bhutan	Malaysia
Botswana	Nigeria
Burundi	Pakistan
Canada	Portugal
China	Russia
Colombia	Sierra Leone
Czech Republic	South Africa
Eritrea	South Sudan
Ethiopia	Spain
France	St Vincent
Germany	Sudan
Ghana	Switzerland
Greece	Tanzania
Holland	Trinidad and Tobago
India	Tobago
Indonesia	Uganda
Iran	UK
Ireland	USA
Italy	Vietnam
Jamaica	Zambia
Japan	Zimbabwe



## Why choose to study by Distance Learning?

Distance learning enables students to learn new knowledge and develop skills whilst maintaining existing employment. This has a number of benefits to both students and their employers.

- Students are able to directly apply new skills and knowledge and thus reinforce their learning, and at the same time become more valuable assets to employers.
- Employers can maintain continuity and also develop their workforce.
- Students can learn and study flexibly and at their own pace.
- The cost of study is spread over a longer time period and can be paid on a module by module basis.
- Students can benefit from international practice and develop networks of contacts.

## How can I find out more about the modules?

More details about each module are available by downloading the particular module specifications from the relevant links on our website. You can access these specifications via the list of modules shown for each of our programmes. The specifications give the aims, intended learning outcomes, syllabus and means of assessment for each module.

Visit: [wedc.lu/wedc-programmes](http://wedc.lu/wedc-programmes)

## How flexible is the learning?

Study with WEDC is very flexible. The modules you study for professional development can later contribute to a Postgraduate Certificate; those for a Certificate can later contribute to a Postgraduate Diploma; and those for a Diploma can later contribute to an MSc.

## What does distance learning with WEDC involve?

### Format of learning materials

Our learning materials are carefully designed to be comprehensive, easy to follow and portable. At the start of each module, students receive a study pack which includes: study guidance; a set of highly illustrated self-study notes; additional reading materials; self-assessment questions and answers; and subject specific references and texts. The self-study notes present defined learning objectives, detailed and focussed information about the subject with associated further reading and references. Whilst the learning materials are predominantly paper-based we are increasingly providing electronic versions of materials in addition to hard copies to enable increased portability.



# Assignments, Assessment, Feedback & Schedules



## Assignments

As you work through the study notes, you will be required to submit assignments. Assignments are your response to sets of questions which are sent to you at the start of the module. There are no exams.

There are two or three assignments to submit for each module and for each there is a specified date by which it, or an electronic copy, has to arrive at WEDC. The weighting of marks for each assignment increases through the module, normally being 40% and 60% for the first and second assignments (20%, 30% and 50% where there are three assignments).

## Assessment

Your module assignments will be assessed at WEDC. On application you are asked to nominate a local guarantor who will be required to counter-sign each assignment to indicate that they believe it to be your own work. Your guarantor will require approval from WEDC. All assignments are checked electronically for plagiarism.

## Feedback

Feedback is essential to the learning process and is therefore an integral feature of our distance learning programmes. You are encouraged to correspond with your Module Tutor (Responsible Examiner) by letter, telephone, email or a web-based module forum. The use of Skype may be an additional option. Feedback takes the form of a grade and constructive advice from your tutor, sent to you by email, usually within three weeks of the submission date.

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## Study over two years?

You can 'fast-track' your distance learning study by choosing up to four modules in each five-month study session so that it becomes possible for you to complete your MSc programme in two years.



## Study schedules

Each module (except the *Research Dissertation*) is based on an estimated total of 150 hours of study for reading module notes, additional reading and completing the assignments. The *Research Dissertation* may need up to 600 hours of work. All other modules must be undertaken within a fixed period of five months. The five-month period allows sufficient time for study, submission of assignments and feedback of the first assignment. It also provides the opportunity for more than one module to be taken simultaneously for those who have time available. You must complete your studies for a Certificate, Diploma or MSc within three, five and eight years respectively from when you first register for a module. Postgraduate credits already gained from studying modules (individually or as part of a Certificate or Diploma) can contribute towards an MSc degree, provided all modules are completed within eight years of when you first register for a module.

If you have plenty of time to study you can complete an MSc in two years. We provide a special page on our website to show more information about this pattern of study. Visit: [wedc.lu/distance-learning-with-wedc](http://wedc.lu/distance-learning-with-wedc)

## Sharing experience with other participants

A main means of communication is by email. Students are also invited to interact with WEDC and classmates through LEARN our electronic web platform and module discussion forums. In addition, we invite distance learning students to join some Loughborough-based presentations by Skype and webinars. For those unable to connect we provide links for listening to the presentations at a later date.



# Entry Requirements, Fees, Funding & Application



## Supporting you

Our distance learning team were shortlisted for the award of Outstanding Student Admission Team in the Times Higher Education Leadership and Management Awards in 2010.



## Entry requirements

WEDC distance learning programmes are designed to be studied at postgraduate level, so you should hold a degree or an equivalent qualification from a university accredited by the Senate of Loughborough University. Applicants for the *Water and Waste Engineering* programme require an upper second class award (2:1) or above in an engineering or a science discipline. The other programmes (WEM and IIE) require a lower second class award (2:2) or above. All applicants must have an acceptable qualification in English language before they can be admitted (see [www.lboro.ac.uk/international/englang/index.htm](http://www.lboro.ac.uk/international/englang/index.htm) for details). If you do not possess the above qualifications, you may still be eligible if you can demonstrate you have the necessary academic skills and practical experience to satisfactorily complete a programme.

## Fees

Each 15-credit module currently costs £1,300 and the 60-credit *Research Dissertation* module costs £2,600. This price includes the study guide, module notes, associated publications (e.g. text books), tutor support, assessment, feedback, accreditation by Loughborough University and the cost of sending you the pack. You will also need to fund the cost of posting or sending by courier each of your assignments to us. If you choose to pay in advance for all modules the total cost of the Certificate, Diploma and MSc programmes are respectively £5,200, £10,400 and £13,000. (Note that prices are subject to change without prior notice.)

## Scholarships and bursaries

From time to time scholarships are available which cover the full fees or part of the fees for study. Some students entire MSc courses have been sponsored by the Commonwealth Scholarship Commission in the United Kingdom. Other students have been partially sponsored by the Loughborough University Development Trust which is funded by various bodies and alumni. Visit [wedc.lu/wedc-scholarships](http://wedc.lu/wedc-scholarships) for details of any current opportunities for scholarships or bursaries. You can send an email to [WEDC-Admissions.lboro.ac.uk](mailto:WEDC-Admissions.lboro.ac.uk) to request that we inform you whenever new scholarships become available.

## How to find out more

Details about the content and intended learning outcomes of distance learning programmes and modules are shown in the programme and module specifications which can be found via the distance learning section of the WEDC website at [wedc.lu/distance-learning-with-wedc](http://wedc.lu/distance-learning-with-wedc)

## How to apply

Visit [www.lboro.ac.uk/study/apply/postgraduate/](http://www.lboro.ac.uk/study/apply/postgraduate/) for full guidance about how to make an application. This web page has links to all the necessary forms you need. If you require help with your application, don't hesitate to contact us.

We look forward to welcoming you as a distance learner!





## What our students say

"I've come to appreciate the social, technological, economical, institutional, environmental and political dynamics involved in the provision of sustainable WASH facilities and services in low- and middle-income countries. Professionally, I am a more disciplined person with a better sense of time management and self-control. Due to my enhanced capacity in the WASH sector, my career growth has been steady over the last three years from a Water and Sanitation Engineer to a Project Manager and now currently a Senior Programme Coordinator. I am optimistic that more is yet to come."

"It is, and has been, of significant value to my current position to say the least and has turned out to be an extremely interesting course so far. I feel that I have greatly increased my understanding of some fundamental issues relating to management in a development country context as well as boosting my personal confidence. This is paying dividends in my work and in people's opinion and confidence in me!"

"The distance learning modules undertaken so far have been very useful and I have applied a lot of the knowledge to my work."

"It was a great experience ... and I have fully enjoyed and benefited from the course materials provided for various modules."

"Well structured, clearly presented."

"My WEDC studies are not complete but, boy, have they prepared me already for this!"

"I'd like to thank you for all the support you've been giving throughout this course, turning it into a very useful experience."

"The programme has benefited me to significantly improve my technical capacity in all dimensions of water and sanitation fields. The programme has helped me to plan, implement and monitor WASH activities in a more effective manner. I have supported technically other partners working in my area through provision of training, designing of WASH facilities and planning and responding to WASH emergencies."

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## Video reviews

You can also watch short video clips of our students describing their experience of studying with us.

[wedc.lu/what-our-students-say](http://wedc.lu/what-our-students-say)



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Details given in this brochure are correct at the time of going to press. Please note, however, that programme dates, fees and University regulations may be subject to change without prior notice. Check the WEDC website for the latest details.

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