



ROYAL
ACADEMY OF
ENGINEERING

Brunel University

Dr Evina Katsou – AC

Gordon Findley – VP

Maria Kouyoumijian – Ex-student

Visiting Professors Induction Course 2019

Experienced AC/VP Perspective and Student Feedback

Gordon Findlay, FCIBSE; FHEA; FCIEA; FCIWEM; CWEM; CEng; CEnv.

Visiting Professor at Brunel University, London

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AC Views on VP Input

Dr Evina Katsou:

- Senior Lecturer and Course Director of the Water Engineering MSc at Brunel University, London
 - Lead in Water Lab and research projects; 66 publications in journals; numerous invited talks.
-
- a. Very important to be integrated into the University community – not just seen as a “guest lecturer”
 - b. We prepared the application together, taking into consideration what is really needed in order to improve the Course and to make it more beneficial for the students
 - c. Discussions with other colleagues in the University to have a clear view of the needs
 - d. Involved in activities beyond teaching and the students appreciated this. Always available!
 - e. Assisted upgrading modules to bring them closer to the industrial needs
 - f. Helped all the students, motivating even the weaker students (the design project especially)
 - g. Good mentor for students and staff (especially for me!).
 - h. Industrial oriented teaching with strong theoretical background and industrial applications
 - i. Brought enthusiasm and new ideas!
 - j. Even became friends with some of the students and we were invited to their BBQ!

VP Perspective

To supplement the VP Rough Guide, the contents of this presentation are based on a combination of my own 25 years experience of visiting lecturing, including 2 years as an RAE VP and also feedback from two new VPs I have recently assisted and students.

1. University “Welcome Pack”
2. Intranet Facilities
3. Lecture and Exam Timetable
4. Value of your input
5. Alignment with Module Outline
6. Exam and Design Project assessment
7. Additional Support
8. “Buddy Scheme”
9. Student Feedback

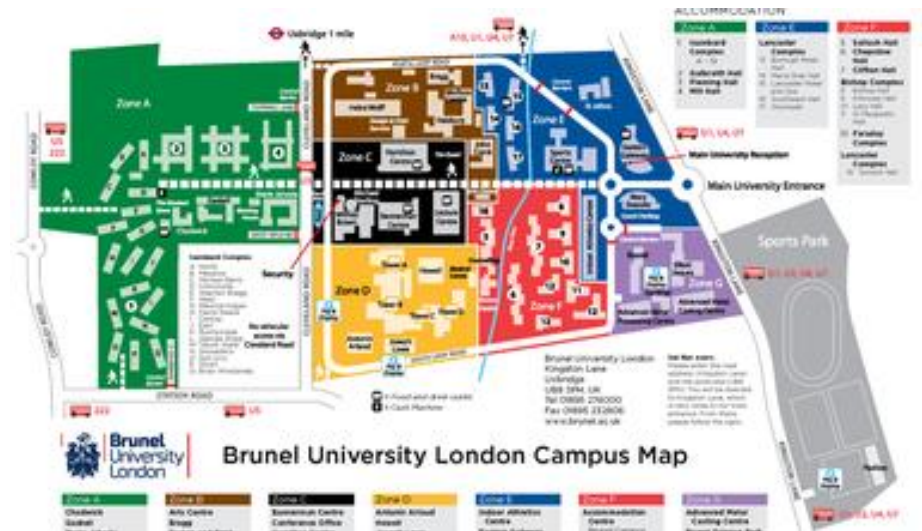
**My application title
(or mission statement):-**

***“Equipping engineering students with
practical industry skills and
professional competence”***

Questions and Discussion

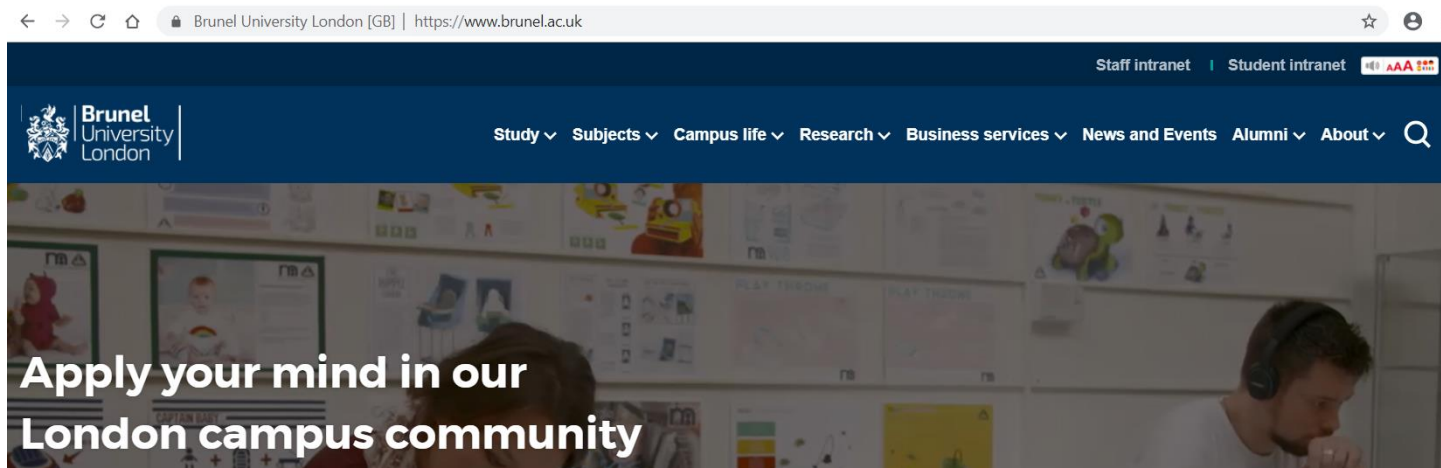
1 University “Welcome Pack”

- a. Could be informal and low cost
- b. Map of the campus with room locations
- c. Identification of VP offices and equipment for use
- d. List of key individuals who can help with administration, security, finance
- e. Detailed breakdown of the module content and the expected subject delivery
- f. Contacts for other module lecturers



2 Intranet Facilities

- a. Obtain Login and Password to the University internal systems
- b. Email address and password (may be a different system to above)
- c. Access to Blackboard for uploading, Class Lists etc (again, may be different system)
- d. Understand Staff Level access and Student Level access
- e. Login and Password for “electronic” timesheets (yet again, may be a different system)



3 Lecture and Exam Timetable

- a. Timetable of lectures, tutorials, revision week (for questions and answers) and exams
- b. Full timetable of class to understand their availability for your module/deadlines:-
 - i. Lectures
 - ii. Labs
 - iii. Design Project Hand-ins
 - iv. Exams
- c. Adequate notice of lectures
- d. Attendance Sheets ?

WEEK NUMBERS 2015/16									
Week No	Monday	to	Friday	M	T	W	Th	F	
0	14/09/2015	to	18/09/2015	Enrolment for new academic year					
1	21/09/2015	to	25/09/2015	T1 Begins					
2	28/09/2015	to	02/10/2015						
3	05/10/2015	to	09/10/2015						
4	12/10/2015	to	16/10/2015						
5	19/10/2015	to	23/10/2015						
6	26/10/2015	to	30/10/2015						
7	02/11/2015	to	06/11/2015						
8	09/11/2015	to	13/11/2015	PGT Boards					
9	16/11/2015	to	20/11/2015						
10	23/11/2015	to	27/11/2015						
11	30/11/2015	to	04/12/2015						
12	07/12/2015	to	11/12/2015	Winter Examinations		Winter Grad		T1 Ends	
13	14/12/2015	to	18/12/2015						
14	21/12/2015	to	25/12/2015						C
15	28/12/2015	to	01/01/2016	C	C	C	C	C	C
16	04/01/2016	to	08/01/2016						
17	11/01/2016	to	15/01/2016	T2 Begins and Winter Examinations					
18	18/01/2016	to	22/01/2016						
19	25/01/2016	to	29/01/2016						
20	01/02/2016	to	05/02/2016						
21	08/02/2016	to	12/02/2016						
22	15/02/2016	to	19/02/2016						
23	22/02/2016	to	26/02/2016						
24	29/02/2016	to	04/03/2016						
25	07/03/2016	to	11/03/2016						
26	14/03/2016	to	18/03/2016						T2 Ends

4 Value of Your Input

- a. Industry experience – highly valued by university and students
- b. Be confident in the worth of your industry-based input and make suggestions
- c. Students appreciate your approachability and personal engagement
- d. Topics should be interesting and relevant
- e. Work with AC to understand needs
- f. Practical feedback (2-way)
- g. Possibly support thesis, research etc



5 Alignment with Module Outline

- Seek out the “Module Outline” or syllabus etc if not provided in “Welcome Pack”
- Align lectures with the assessment methods and learning outcomes
- If appropriate, cross-refer to EC UK Spec etc
- Understand the additional study time required of students
- Aim towards relevant exam questions (base on Past Papers if available)
- Understand how your contribution fits with other lecture inputs, lab reports etc

Elements of Summative Assessment			LEARNING OUTCOMES TO BE ASSESSED	
ASSESSMENT NUMBER	SUMMATIVE ASSESSMENT METHODS WHICH ENABLE STUDENT TO DEMONSTRATE THE LEARNING OUTCOMES (please provide the length/duration of each assessment listed):	WEIGHT	<p>This Modular Block provides opportunities for students to demonstrate knowledge and understanding (K) cognitive (thinking) skills (C) and other skills and attributes (S) in the following areas:</p> <p>Categories (K, C, S)</p>	
1	Assignments including design exercise	40%	<p>K</p> <p>K</p>	<ul style="list-style-type: none"> (In depth knowledge and understanding on how hydrological processes react to external and internal controls, including climatic and land use change and engineered structures. To be able to apply hydraulic principles to design water-related structures and assess the suitability and success of a range of sustainable water engineering and resource management options
Final Assessment	Examination (2 hours)	60%	<p>C</p> <p>C</p> <p>S</p> <p>S</p>	<ul style="list-style-type: none"> Appraisal and interpretation of hydrological data for design processes. Apply and assess a range of water engineering tools in theoretical and applied contexts. Apply hydrological and hydraulic principles in the design of hydraulic structures. Report writing, and practical experience.

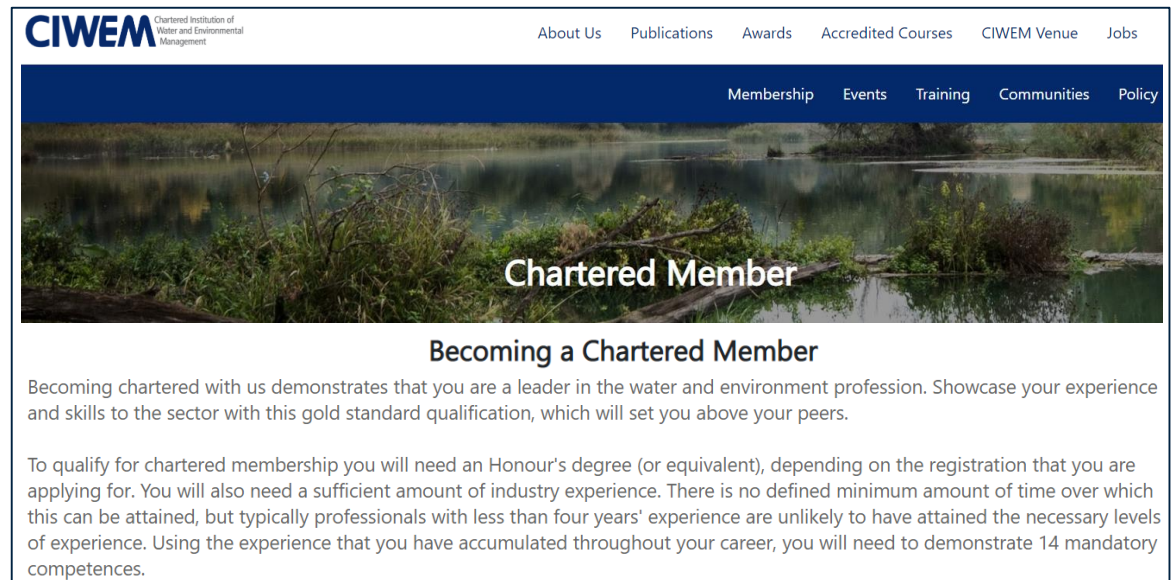
6 Exam & Design Project Assessment

- a. Tutorials, Exam Questions and Design Assignments should be fair and relevant
- b. Should also align with the Module Outline and Learning Outcomes
- c. Include a “stretch” element to challenge the more astute...
- d. Keeps their interest and provides opportunity to distinguish
- e. Fair/consistent assessment takes time, so plan for the deadlines
- f. Comply with Marking Protocol
- g. Green Ink checking
- h. Give Student Feedback

LEARNING OUTCOMES TO BE ASSESSED	
This Modular Block provides opportunities for students to demonstrate knowledge and understanding (K) cognitive (thinking) skills (C) and other skills and attributes (S) in the following areas:	
Categories (K, C, S)	
K	<ul style="list-style-type: none"> (In depth knowledge and understanding on how hydrological processes react to external and internal controls, including climatic and land use change and engineered structures.
K	<ul style="list-style-type: none"> To be able to apply hydraulic principles to design water-related structures and assess the suitability and success of a range of sustainable water engineering and resource management options
C	<ul style="list-style-type: none"> Appraisal and interpretation of hydrological data for design processes.
C	<ul style="list-style-type: none"> Apply and assess a range of water engineering tools in theoretical and applied contexts.
S	<ul style="list-style-type: none"> Apply hydrological and hydraulic principles in the design of hydraulic structures.
S	<ul style="list-style-type: none"> Report writing, and practical experience.

7 Additional Support

- a. A VP should be considered as a staff member to be most effective
- b. Assist with Module development to align with JBM course accreditation
- c. Guidance on Membership and Chartership – for both students and staff !
- d. Also students (and staff) appreciate support with:
 - i. CV's
 - ii. Job application letters
 - iii. Interview techniques
 - iv. Confidence building
 - v. Reference
 - vi. Continued liaison



The screenshot shows the CIWEM (Chartered Institution of Water and Environmental Management) website. The header includes the CIWEM logo and navigation links: About Us, Publications, Awards, Accredited Courses, CIWEM Venue, and Jobs. A secondary navigation bar contains links for Membership, Events, Training, Communities, and Policy. The main content area features a large image of a river with the text 'Chartered Member' overlaid. Below this, the section is titled 'Becoming a Chartered Member'. The text describes the benefits of becoming chartered, stating it demonstrates leadership in the water and environment profession. It also outlines the requirements for qualification, including an Honour's degree (or equivalent), industry experience, and the demonstration of 14 mandatory competences.

CIWEM Chartered Institution of Water and Environmental Management

About Us Publications Awards Accredited Courses CIWEM Venue Jobs

Membership Events Training Communities Policy

Chartered Member

Becoming a Chartered Member

Becoming chartered with us demonstrates that you are a leader in the water and environment profession. Showcase your experience and skills to the sector with this gold standard qualification, which will set you above your peers.

To qualify for chartered membership you will need an Honour's degree (or equivalent), depending on the registration that you are applying for. You will also need a sufficient amount of industry experience. There is no defined minimum amount of time over which this can be attained, but typically professionals with less than four years' experience are unlikely to have attained the necessary levels of experience. Using the experience that you have accumulated throughout your career, you will need to demonstrate 14 mandatory competences.

8 VP Buddy Scheme

- a. Observe/shadow an experienced VP
- b. Perhaps even just for one lecture and an informal chat over a coffee
- c. Not necessarily at your host University
- d. Have an experienced VP as a Mentor – even just email or Yammer contact
- e. This has work well on an informal basis and led to some material in this presentation



9a Current Student Feedback

Jessica Nguyen:

- Graduated from Brunel University with BEng in Civil Engineering with Sustainability
 - Successfully won a good position with a Drainage Specialist Consultancy
 - Keen to progress to MCIWEM; CWEM
-
- a. *Learning how the VP has reached their position is insightful and inspiring as it shows the broad range of avenues ahead of us and the flexibility our qualifications give us.*
 - b. *It is also encouraging to know that if you have a passion for teaching but don't want to dedicate your career to academia, you can still work in industry and teach others.*
 - c. *The VP is good at giving real case studies to assist our understanding of engineering concepts.*
 - d. *Many students ask if the methods taught are actually used in practical in industry. An industry professional welcomes our questions on how our teaching applies in industry.*
 - e. *For example Gordon explained to me how EPANET includes all the basic functions for water distribution design and while other software may be used in industry, they will all relate to the skills we have learnt.*
 - f. *We can trust in the VP that everything we are being taught is up to date knowledge and information.*
 - g. *The VP is able to teach us current industry interests and directions such as greater focus on SuDS, preparing us for concepts we are sure to tackle in our careers.*



9b Former Student Feedback

Maria Kouyoumijian:

- Recently graduated from Brunel University with MSc in Water Engineering (Honours).
- Previous MSc in Finance and employed five years in the industry
- Professional Researcher in a Think Tank Canada (CIRANO)
- Now co-authoring a book entitled “Water on Wall Street” with economist Marcel Boyer

ENGINEER STUDENT'S LIFE

In class: $1+1=2$

Homework: $1+2+2+1=6$

EXAM: JOHN HAS 4 APPLES. HE ATE ONE APPLE AND HE GAVE ONE APPLE.
CALCULATE THE VOLUME OF THE SUN.



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Students want...	Visiting professors can offer...
Good grades	Tutorials
Understanding the subject	Real-life industry cases; share personal experiences
Knowledge of companies	Access to site visits; visits from company reps;
Career	Knowledge of the industry; set expectations; mock interviews
Professional Development	Guidance towards chartership; Trade shows; Conferences