



Faculty of Science

## Energy Studies BSc Honours

### Entry Requirements and Course Overview

#### ***Entry Requirements***

The Rules and Regulations of the Faculty of Science state that the requirement for registration for the BSc Honours in Energy Studies is subject to appropriate undergraduate studies and/or experience in the energy industry. A Bachelor's degree with a ***minimum average mark of at least 65% in the final year*** is a prerequisite for admission.

The University does *not* recognise national diplomas, certificates or short courses as the equivalent of a Bachelor's degree. Those who have such qualifications and want to pursue this course in Energy Studies are urged to work for a BSc qualification through whatever means are available to you (such as studying at UNISA, for example).

An applicable BTech degree, or a Bachelor's degree other than BSc (such as a BCom), together with sufficient applicable experience in the energy industry, can qualify you for enrolment in this course.

#### ***Application Procedure***

All applications are to be submitted via the University of Johannesburg website at: <https://www.uj.ac.za/studyatUJ/sec/Pages/postgraduate.aspx>. Applications open in April of the preceding year. Completed applications must reach us by **31 October** prior to the year of study. The following documents should be submitted with the application:

- Academic transcript showing results from previous degree (if the degree has not been completed, the transcript should still be completed with the online application, and then the transcript including the final exam results should be submitted to the course coordinator, Kristy Langerman ([klangerman@uj.ac.za](mailto:klangerman@uj.ac.za)) as soon as they are available).
- For applicants who work in the energy industry, also submit a cover letter detailing relevant experience and/or a CV.

A departmental selection panel will consider your applications for the BSc Energy Studies Honours programme. A 65% average mark for the final year of your degree is normally required. Exceptions may be made for students with sufficient and appropriate work

experience. You may be required to provide the department with additional information or present yourself for an interview as part of the selection process.

Upon application, an initial decision will be made on the application. A decision of *Conditional Acceptance* is **not** a guarantee of a place in the course, but rather an indication that the application will be considered after 31 October, once all the applications have been received. A final decision should be sent by early December.

The fees for the BSc Hons course must be obtained directly from UJ Faculty Administration. Please contact Tinyiko Sithole at [tinyikos@uj.ac.za](mailto:tinyikos@uj.ac.za) or 011 559 6349 for information on course fees.

### ***Part-time and full-time***

The Energy Studies Honours course was historically offered only as a 2-year part-time course. Since 2019, it has been offered on a full-time basis as well. Full-time students are required to take 'first year' and 'second year' modules and conduct the research project concurrently. Only applicants that are not employed and are available to work on their studies full-time will be accepted as full-time students. Lecture times are scheduled to suit working students.

Full-time students are expected to allocate 40 hours per week to their studies, and part-time students are expected to allocate 20 hours per week (or 10-15 hours if work continues in university vacation time). Because there is limited contact time, students are expected to do set readings in addition to assignments between lectures.

### ***Course Overview***

#### ***First year programme***

The first-year programme covers three modules, namely Energy Technology, Energy Economics and International, Geographic and Political Aspects of Energy (Energy Politics). These run concurrently in eight monthly block contact sessions at the Auckland Park Kingsway campus of the University of Johannesburg.

Please register for the following first year modules:

ENS8X02 – International, Geographic and Political Aspects of Energy – 20 credits

ENS8X03 – Energy Economics – 20 credits

ENS8X04 – Energy Technology – 30 credits

Self-study, reading, and project and assignment work are to be conducted in your own time between the contact sessions. Please plan on allocating 200 hours for a 20-credit course, and 300 hours for a 30-credit course.

Module marks are awarded throughout the year for performance and participation. There is a mid-year test for the first year modules, and year-end examinations. A module year mark is awarded for performance during the year, and counts 50% towards the final mark. The examination makes up the other 50%. Students who do not achieve a minimum 40% for a module are not allowed to write the final examination and may not proceed further with the course.

Each *monthly* contact session will usually be held at the end of the month and comprise the following:

A Thursday evening lecture session from 17:30 to 20:00.

A Friday session comprising field trips, guest lectures, seminars or other activities (full day).

A Saturday morning session comprising lectures, tests or seminars from 09:00 to 12:00.

Out-of-town students will need to arrange accommodation near the University for the Thursday and Friday evenings. This is for your own account.

Field trips will only be conducted if the COVID risk is low and institutions are willing to host us. Past field trips have involved visits to the Lethabo Power Station near Vereeniging, the Eskom Research and Innovation Centre, City Power headquarters in Johannesburg, NECSA near Hertbeespoort, and other places of energy interest.

If field trips go ahead, students are required to pay for the transport for these field trips, and must each deposit **R500** into the following UJ cost centre:

**Geography: Tours & Excursions 05.05.078005.20.14300** (no VAT payable).

If your company or bursar pays your tuition, a **separate** payment must be made into the account above. **Do not include** your transport for field trips **as one** payment with your tuition fees.

The bank account details for payment of the excursion fee are as follows:

Bank: Nedbank Limited

Branch: Nedbank Corporate Investment Banking

Account number: 1454094206

Branch code: 198765

Swift code: NEDSZAJJ

Reference number: **078005.16600**

Proof of payment for the R500 Transport for Field Trips payment must be sent to Dr Kristy Langerman at [klangerman@uj.ac.za](mailto:klangerman@uj.ac.za). The correct reference number (**078005.16600**) must be reflected on the proof of payment.

Geography Honours students are also able to register for the Energy Technology module. The introductory lecture and excursions are considered to be part of the Energy Technology module, and should be attended by all students registered for the Energy Technology module.

### Second year programme

For part-time students, all three modules must be successfully completed before the student may enrol for the second year of study. During the second year a two further modules and a research project must be completed.

#### **Second year modules:**

ENS8X01 – Energy Policy Formulation – 20 credits  
ENS8X05 – Energy Modelling – 20 credits  
ENS8X00 – Energy Studies Research Project – 30 credits

The lecture times in the second year need to be aligned with the departmental schedule for Honours presentations. The following compulsory full-day sessions will be scheduled during the year:

- Mid-March: Proposal presentations, followed by Energy Modelling and Energy Policy lectures
- May: Literature review presentations, followed by Energy Modelling and Energy Policy lectures
- Mid-year: Two full days of Systems Dynamics training at the Eskom Research Centre in Rosherville – students to load software onto their own laptops
- End August: Results presentations, followed by Energy Modelling and Energy Policy lectures
- Two or three research discussion group meetings

Dr Kristy Langerman, Dr Njabulo Kambule and guest lecturers from government, industry, research institutions and the private sector, present the Energy Studies Honours Programme.

For further enquiries, please contact:

Dr Kristy Langerman  
Energy Studies course coordinator  
E-mail: [klangerman@uj.ac.za](mailto:klangerman@uj.ac.za)  
Tel: 011 559 2439