

# MASTER OF SCIENCE IN ENVIRONMENTAL AND RESOURCE MANAGEMENT

## FACULTY OF SOCIAL SCIENCES



### PROFILE

Exploiting natural and environmental resources, such as fossil fuels, minerals, fish, forests, land or the atmosphere, is inherently problematic. Most resources do not belong to anyone, yet their use affects many people - often adversely. Man's pursuit of technology, wealth and a high quality of life means that precious resources are repeatedly mismanaged. And while policy makers attempt to limit damage, the long-term solution is more complex.

Thanks to developments in natural science and technology, there are numerous ways of exploiting resources to enable people to enjoy a comfortable lifestyle with ample choice of products and services. The choices people make daily directly affect the availability and quality of the environment in which they live. Exploiting resources almost always pollutes air, water or land - with lasting consequences for plants and animals. That is why today there is increasing focus in science and technology to find new ways of preventing damage for the benefit of future generations.

By examining human behaviour and social science, we can understand why people, businesses and societies make certain choices about their use of resources. This is important because these choices have far-reaching implications for everyone, not just the decision-makers. Politicians often attempt to limit further damage in response

to poor management. But these attempts are often so specific that they have little enduring effect.

The only way to tackle environmental mismanagement in the long-term is through continuous research and cooperation across disciplines. For example, while engineers may invent new technology to prevent damage, different specialists are required to find the best way to implement the technical solution. Social scientists, expert in human behaviour, establish how to make the technology work for man and the environment. Hence, knowledge of both technology and social science is crucial in developing lasting and efficient solutions to today's complex resource and environmental management problems.

### PROGRAM OBJECTIVES

The programme is designed to join two broad traditions, on the one hand science and technology, which identifies problems and opportunities and generates solutions and on the other hand social science, which identifies actors, their behaviour and ways of modifying them.

### PROSPECTIVE STUDENTS

The MSc study programme is designed to appeal to graduates from a wide range of backgrounds, including environmental science and management, planning, social science, geography, natural science, biology,

earth science, technology and engineering. Students are expected to be able to explore both social science and technology. Numeric literacy and previous experience with quantitative data and models are an advantage. Depending on their level of expertise in these areas, some students may be required to complete an induction course.

### CAREER PROSPECTS

Graduates are well equipped for a career in business, consultancy, national and international organisations, and in local, national and international government. The study programme emphasises both policy formation and management of existing policies and frameworks.

### INSTITUTIONAL FOUNDATION

While the study programme is managed by the University of Southern Denmark (SDU), half of the classes are delivered by the Aalborg University Esbjerg (AAUE). SDU is responsible for classes relating to social science, economy and management, while AAUE deals with project work and skill development relating to engineering, technol-



ogy and natural science. Both universities supply supervisors for projects. Students can have a supervisor from both universities for their dissertation project. The study programme builds on skills students have learnt in their undergraduate degree. It consists of four terms and normally lasts two years. Each term, students take courses and/or projects before sitting an exam. The third term consists of mostly elective courses, enabling students to study at another university or gain work experience.

## STRUCTURE

Exampels of ELECTIVES

- Strategic environmental management of business (5 ECTS)

- Environment and development (5 ECTS)
- Corporate social responsibility: strategy and practice (10 ECTS)
- Innovation management (10 ECTS)
- Regional industry development an the civic society (10 ECTS)
- Occupational health and safety
- Global health (10 ECTS)
- Biomass/bioenergy (5 ECTS)
- Biorefinery design (5 ECTS)
- Philosophy of science and history of technology (5 ECTS)

## ENTRY REQUIREMENTS:

BSc in Environmental Planning and management or from a similar background. Numeric literacy and previous experience with quantitative data and models are an

advantage.

*For Non-EU/EEA citizens* the IELTS (or TOEFL) is necessary if your first degree was taken outside the European Union, Scandinavia, Switzerland, USA, Australia, or New Zealand.

IELTS with a score of min. 6.5 or TOEFL with a score of min. 575 paper based, computer based min. 230, internet based 88.

PLEASE NOTE: The University of Southern Denmark has access to the IELTS Verification Service; therefore we accept the IELTS test results/score in copy. TOEFL is only accepted in original sent directly from the test centre or the educational testing service (ETS) before registration deadline.

*EU/EEA citizens* are not required to document their English skills but are of course

## PROGRAMME OVERVIEW

1	Resource forum (4 ECTS)		
	Sustainability, resources and environment (8 ECTS)	Resource characterization & conversion technologies and resources (8 ECTS)	Project management (10 ECTS)
2	Stakeholder inclusion and resource/environmental decisions (10 ECTS)	Holistic design for sustainability; systems, processes and products (10 ECTS)	Chemometrics, process characterisation and process sampling (5 ECTS) Case studies in environmental and natural resource management problem solving (5 ECTS)
3	<b>Alternative 1:</b> 30 ECTS from a combination of project courses, study courses and projects <b>Alternative 2:</b> 30 ECTS from courses taken at another university <b>Alternative 3:</b> 10 ECTS from electives and projects, 20 ECTS from practise report		
4	<b>Master Thesis (30 ECTS)</b>		

TUITION FEES	<p>expected to meet the language level in English required at graduate level.</p> <p><i>For Non-EU/EEA citizens:</i> Full Master's Degree (2 years) (120 ECTS) EUR 17,000.</p>	REGISTRATION DEAD LINES	<p>Study starting 1 September: 1 March/ EU citizens 1 May</p> <p>Study starting 1 February: 1 August/ EU citizens 1 November</p>	FURTHER INFORMATION	<p>University of Southern Denmark, Esbjerg</p> <p>The International Office Niels Bohrs Vej 9-10 DK-6700 Esbjerg</p> <p>Phone: +45 6550 1502 Fax: +45 6550 1091</p> <p>SDU homepage: <a href="http://www.sdu.dk">www.sdu.dk</a> Faculty homepage: <a href="http://www.sam.sdu.dk">www.sam.sdu.dk</a> E-mail: <a href="mailto:int@adm.sdu.dk">int@adm.sdu.dk</a></p>
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