

檔 號：
保存年限：

駐瑞典代表處文化組 函

地址：Wenner-Gren Center, Sveavagen

傳 真：+46-8-328240

聯絡人：黃馨萱 (Email:
culture@tmis.se)

聯絡電話：+46-8-328200

受文者：國立清華大學

發文日期：中華民國98年12月21日

發文字號：瑞文字第0980120009號

速別：普通件

密等及解密條件或保密期限：普通

附件：哥特蘭大學風力研究所簡介（風力管理研究所.DOC、課程介紹.PDF，共2個電子檔案）

主旨：瑞典哥特蘭大學（GOTLAND UNIVERSITY）提供該校全英語授課之風力管理「Wind Power Project Management」碩士班課程資料，歡迎我國青年學子申請入學，2010年秋季班申請截止日為2010年1月15日。詳如說明，請查照周知。

說明：

- 一、哥特蘭大學為新興大學，成立於1998年。該校位於瑞典東南部外海之哥特蘭島，現有學生約五千名，並設有多種英語授課之碩士課程及遠距教學課程。據校方表示，目前全球對再生能源的研究開發均極重視，該校為全球少數單獨將風力能源研究獨立成系之大學，風力管理課程亦為首創。
- 二、隨文檢附該系所英文簡介資料，意者請於申請入學截止前上網報名（瑞典大學研究所招生統一接受聯合入學網站線上報名：<https://www.studera.nu/>），該校網址為：www.hgo.se。

正本：公私立大專院校

副本：教育部



Master Program in Wind Power Project Management, 60 HP

A Project Management Approach - From Origin to Operations

As the global wind power industry grows in geographic distribution, project size and complexity, there is a corresponding need for professional managers to lead these interdisciplinary projects to successful completion. Wind Power Project Management at Gotland University is an on-campus program of study designed to prepare students for professional career paths in the global wind power industry, or to follow a research focus in wind energy subjects. The all-English language curriculum follows a sequential study track developed around wind energy and management modules. Energy utilization, turbine technology, project economics, environmental impact, meteorology and spatial planning are representative of curriculum subjects. An independently researched thesis completes the study plan.

The program has an interdisciplinary orientation to prepare students for global management positions in wind energy, consulting firms, government organizations, environmental agencies, nongovernmental organizations or other agencies working with energy-environmental balance issues. Graduates with prior industry employment experience may reenter the work force with advanced management skills qualifying for critical project management, operations, or economic development positions. Graduates with this program as their initial employment entry degree have demonstrable knowledge relevant to wind farm development, operations and community relations.

Upon successful completion of the program the student is awarded the Degree Master of Science (60 ECTS) in Energy Technology with specialization in Wind Power Management, corresponding to a Swedish "Magisterexamen i energiteknik med inriktning mot vindkraftförvaltning".

Additional program information will be found at www.hgo.se/wpmaster

Autumn 2010, campus full time

Application code: HG-33612 - Apply at studera.nu! **Last application:** 2010-01-15

Eligibility: Swedish Bachelor Degree in engineering or science core subjects, or equivalent foreign degree, and a proficiency test in English (IELTS: score of 6.0 and no section below 5.0 (tests taken before January 2005 are not accepted)

• TOEFL : Paper-based, score of 550 and not below 4.0 in the TWE; Computer-based, score of 213 and not below 4.0 in Writing; or Internet-based Test (iBT), score of 79 and not below 17 in Writing.

• University of Cambridge/Oxford Certificate in Advanced English/Certificate of Proficiency/Diploma of English Studies.).

Course duration: 30 August 2010 - 3 June 2011

PROGRAMME SYLLABUS FOR

Master Programme in Wind Power Project Management

60 ECTS CREDITS

PROGRAMME CODE
TAMWM

APPROVAL

Approved 2009-12-03 by the Faculty Board at Gotland University.
Valid as from autumn term 2010.

LEVEL

Advanced level 400

LEARNING OUTCOMES

After completing their studies the student should be able to:

- identify and apply knowledge of wind energy in energy systems.
- explain basic principles of spatial planning
- assess the feasibility of wind power development in a region
- assess the feasibility of a wind power project
- perform planning and management processes of wind energy projects.
- facilitate communication in topics regarding wind power development

CONTENTS AND ORGANIZATION OF THE STUDY PROGRAMME

The Wind Power Project Management programme blends wind energy development and project management subjects into the curriculum to ensure graduates exit with requisite skills to balance sustainable energy production with needs of the project stakeholders.

The programme prepares students for a professional career in the renewable energy sector with a curriculum focus on wind power development and management. Turbine technology, economics, energy utilization, environmental assessment, meteorology and supply chain management are representational subjects incorporated in the interdisciplinary programme with focus on wind farm planning and operations.

The programme is organized in a sequential path of thematic instruction in technology and management subjects to plan and execute wind power projects. Starting in the autumn term, the Wind Energy Science Module (30 ECTS) with industry relevant technology subjects such as wind resources and measurement, turbine efficiency, energy estimations, and grid integration are presented. Over the spring term, students transfer from the technology foundation to the Management Module (15 ECTS) and subjects in planning and development, project economics, community relations, environmental impact regulations and acceptance, and wind farm optimization.

Research and writing skills are equal elements of professional competence and important parts of the curriculum. These topics are addressed by a Thesis Module (15 ECTS) that functions over the entire academic year. Study begins early in the autumn term with a series of thesis seminars and workshops, culminating at the end of the spring term with an independently researched student thesis.

ENTRANCE REQUIREMENTS

Entrance requirements include a bachelor's degree of 180 Swedish credits points or equal in engineering or a science related field of study such as ecology, environmental studies, natural or social science, economics, design, civil engineering, architecture or urban planning, and with a foundation

level of calculus and statistics. Swedish students are required to have passed the equivalent of Mathematics C in the Swedish Secondary School system.

Applicants must have written and verbal command of the English language suitable for master's level studies, independent research and composition skills equal to the creation of a master thesis. A proficiency test of upper level English language is required, corresponding to the Swedish level of "Engelska B".

TYPE OF TEACHING

The language of instruction and literature is English. Interdisciplinary topics are presented by lectures, seminars, case studies, workshops and study visits.

DEGREE CERTIFICATE AND ACADEMIC QUALIFICATION

Upon successful completion of the Master Programme in Wind Power Project Management the student is awarded the degree:

Master of Science (60 ECTS) in Energy Technology with specialization in Wind Power Management/Magisterexamen i energiteknik med inriktning mot vindkraftförvaltning.