UNIVERSITY OF GOTHENBURG

GRADUATE SCHOOL

GM0424 Global Technology Management, 7.5 credits

Teknologihantering på global nivå, 7,5 högskolepoäng

Second Cycle

Confirmation

This course syllabus was confirmed by Graduate School on 2018-04-16 and was last revised on 2018-10-17 to be valid from 2019-01-21, spring semester of 2019.

Field of education: Social Sciences 100%
Department: Graduate School

Position in the educational system

The course Global Technology Management, is a course within the Master of Science programmes at the Graduate School, School of Business, Economics and Law, University of Gothenburg.

Main field of studies	*Specialization*
Innovation and Industrial Management	A1N, Second cycle, has only first-cycle course/s as entry requirements

Entry requirements

To be eligible for the course Global Technology Management the participant must fulfil the entrance qualifications for the Master of Science programme in Innovation and Industrial Management. For programme specific entrance requirements, see programme syllabus.

Learning outcomes

On successful completion of the course the student will be able to:

Knowledge and understanding

- Define and describe a set of key concepts, frameworks and methods relevant to global technology management.
- Understand the roles of different key stakeholders in global technology management across different systemic perspectives.
- Contrast the advantages and disadvantages of different approaches to global technology management.

Competence and skills

- Apply and evaluate a set of tools and indicators to determine firm strategy for deciding about sourcing of knowledge and ideas, supply- and value-chain activities, research and development, and other types of technology management in an international or global context.
- Develop skills such as communication through presentations, group activities, and a written paper.

Judgement and approach

- Express, justify and criticize different arguments for the feasibility and future potential of alternative choices facing decision-makers in global technology management.
- Gain experience in selecting different indicators to represent trends and development on the firm and industry level, and analyzing them in the context of global technology management.

Course content

By their nature, product and service businesses are based upon a foundation of technology. Effective technology management integral with the overall business strategy is an essential prerequisite to sustainable competitive advantage for both emerging and mature businesses. This process becomes amplified in importance in the context of the rapid globalization of the world economy.

This course generates an appreciation of the role of technology in the business and critically analyses how technological change through capture, development, integration and even divestment can be used to raise performance. These complex matters are dealt with within the context of external and internal constraints and the realities of product and technology life-cycles.

The development of knowledge and technology involves a variety of topics, and new topics are added over time due to the on-going nature of globalization. Examples of topics to be covered include internationalization and outsourcing of technology, research, and development; the respective importance and changing roles of different countries and regions in the global technology landscape; how external knowledge sourcing and innovation affect a global strategy, and global value and supply chains.

Topics thus address the sourcing of knowledge and technology and the creation of value internationally. Additionally the course deals with aspects of digitalization and the increasing importance of big data in industrial management.

Form of teaching

Teaching is based on lectures and project work. The lectures aim to introduce the course participants to various concepts and guide the students through the most important aspects. The project work develops the student's ability to apply and reflect upon the theoretical concepts to existing firms and industries, as well as develop their own analytical and problematization skills.

Language of instruction: English

Assessment

All learning outcomes are assessed by a written individual assignment and a project work.

Individual take-home assignments and exams shall be written individually, cooperation in formulating text, tables, figures etc. is not allowed.

If a student, who has failed the same examined component twice, wishes to change examiner before the next examination, a written application shall be sent to the department responsible for the course and shall be granted unless there are special reasons to the contrary (Chapter 6, Section 22 of Higher Education Ordinance).

In cases where a course has been discontinued or has undergone major changes, the student shall normally be guaranteed at least three examination occasions (including the ordinary examination) during a period of at least one year from the last time the course was given.

The number of examinations is limited to five.

Grades

The grading scale comprises: Excellent (A), Very good (B), Good (C), Satisfactory (D), Sufficient (E) and Fail (F).

The course contains the following weighted assessment tasks:

Team based project (30% of grade)
Individual written paper (70% of grade)

The grade (A-E) corresponds to the total score a student obtains. To receive a pass grade (A-E) >= 50% points is required. The scale is tied to fixed score intervals:

A: 85%-100%;

B: 75%-84%;

C: 68%-74%;

D: 60%-67%;

E: 50%-59%;

F: <50%

Course evaluation

The course will be evaluated upon completion. The results of and possible changes to the course will be shared with students who participated in the evaluation and students who are starting the course.