

# Information and Service Management, advanced level

## Basic information of the minor

**Code:** BIZ40700

**Extent:** 24 ECTS

**Language:** English

**Organizing department:** Information and Service Management

**Teacher in charge:** Merja Halme, Virpi Tuunainen, Markku Kuula

**Administrative contact:** Elli Hämäläinen

**Target group:** All Aalto students

**Application procedure:** The general application procedure for minors at Aalto University, see [Instructions for applying](#).

**Degree students at Aalto School of Business do not need to separately apply for a study right for the minor.**

**Quotas and restrictions / Kiintiöt ja rajoitukset / Kvoter och begränsningar:** Degree students at Aalto School of Business do not need to separately apply for a study right for the minor. During the academic year 2019-2020, maximum of 5 students from other Aalto schools can be granted a study right for the minor. / Kauppakorkeakoulun tutkinto-opiskelijoiden ei tarvitse erikseen hakea opinto-oikeutta sivuaineeseen. Lukuvuonna 2019-2020, maksimissaan 5 opiskelijaa muista Aallon kouluista voidaan valita suorittamaan sivuainetta.

## Content and structure of the minor

Information and Service Management (ISM) refers to the creative use of information and technology in decision making, in managing business processes and networks, and in developing new products and services. While ISM gives an understanding of different business functions and their interdependence relevant to managers, it also provides methods and skills for economic analysis required in many other fields of undergraduate and graduate studies.

Topics covered by the minor studies in Information and Service Management include:

- decision analysis and negotiation processes;
- development of information systems and associated business processes and services;
- logistics and supply chain management: sourcing, production and distribution of goods and services;
- management of technological innovation; and
- mathematical methods and statistical analysis.

Minor studies in Information and Service Management consist of three focus areas: Business Analytics, Information Systems Science and Supply Chain Management. The focus of *Business Analytics* is on increasingly important skills to manage and analyse the rapidly growing supply of information. The focus of *Information Systems Science* is on the know-how necessary to efficiently manage and develop business processes using information systems and networks. The focus of *Supply Chain Management* is on providing students with the capabilities to manage and develop companies' production, distribution, supply, purchasing and service operations.

Minor studies in ISM typically consist of four E-level courses totalling 24 cr. If a student has no prior studies in ISM subjects, one or two C-level courses can be included in the minor. The possible C-level courses are listed in the course lists below. As an alternative to the Master's level minor studies, the student may choose a minor from the Bachelor's level (Information and Service Management, BIZ30300).

Students can choose one focus area or mix courses from all focus areas.

## Structure of the minor, 24 cr

Code	Name	ECTS	Period
<b>Business Analytics</b>			
Choose 4 courses from the following:			
27E02000	Models in Marketing	6	I
30E00400	Simulation	6	I-II
30E02000	Business Decisions 2	6	III
30E03000	Data Science for Business I	6	III

30E03500	Data Science for Business II	6	IV
35E00800	Intellectual Property Rights	6	II
57E00500	Capstone: Business Intelligence	6	IV
27E01000	Decision Making and Choice Behavior	6	V
30E00800	Time Series Analysis	6	IV-V
30E00300	Productivity and Efficiency Analysis	6	V lectured only 2019-2020
57E00700	Capstone: Digital/SM/Challenge	6	II
TU-22.E2000	Aalto Introduction to Services P	6	I

You can also choose max 2 from the following C-level courses:

27C01000	Business Decisions 1	6	II
30C02000	Negotiation Analytics	6	V
30C00200	Econometrics	6	III
30C00355	Business Mathematics II	6	V

or Studies from another Department or Aalto school (6 ECTS) which must be approved by the minor studies coordinator

## Information Systems Science

Choose 4 courses from the following:

37E00100	Information Economy	6	IV
37E00200	Strategic Information Technology Management	6	II
37E01000	Current Topics in Information Systems Science	6	TBA
37E01500	Project Management and Consulting Practice	6	V
37E44000	Critical Issues in Information Systems Research	6	V (Academic year 2018-2019) TBA (2019-2020)
57E00500	Capstone: Business Intelligence	6	IV
TU-E2000	Aalto Introduction to Services P	6	I
37E01400	Essential Literature in Information Systems Science	6	I, II, IV
37E01600	Data Resources Management	6	I
57E00700	Capstone: Digital/SM/Challenge	6	II

You can also choose max 2 from the following C-level courses:

37C00100	Management Information Systems	6	IV
37C00250	Capstone: Information Systems Development	6	III
37C00400	Programming 1	6	I

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or Studies from another Department or Aalto school (6 ECTS) which must be approved by the minor studies coordinator

## Supply Chain Management

Choose 4 courses from the following:

35E00350	Sales & Operations Planning	6	IV
35E02000	Procurement and Strategic Sourcing*	6	III
35E03000	Sustainable Supply Chains	6	II (Teaching period updated for academic year 2019-2020 in June 2019)
35E00800	Intellectual Property Rights	6	II
35E00550	Quality and Performance Management	6	II
35E00650	Quantitative Models in SCM/OM	6	August 2019, summer course
35E08000	Service Business Models	6	V
35E00400	Coordination of Supply Chains	6	V
35E00750	Logistics Systems and Analytics	6	I
57E00550	Capstone: Business Intelligence	6	IV
TU-E2000	Aalto Introduction to Services P	6	I
57E00700	Capstone:Digital/SM/Challenge	6	II

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\*) Replaces course 35C00200 Purchasing and Supply Management/ 35C00250 Hankintojen johtaminen. Only one of these courses can be completed.

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