

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 |
|--------------------------------------|-----------------------------|------|--------|
| Business Analytics | | | |
| 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 |

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 |

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

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

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