Information and Service Management, intermediate level

Basic information of the minor

**Code:** BIZ31300

**Extent:** 18-24 ECTS

**Language:** Mainly English, one obligatory course in Finnish

**Organizing department:** Information and Service Management

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

**Administrative contact:** Elli Hämäläinen

**Target group:** All Aalto students

**Application procedure:** All Aalto students can choose this minor. However, many courses have limited number of seats and students are selected according to the order of priority confirmed in the course description. You should pay attention to the course-specific prerequisites and make sure you meet them in order to succeed in the courses.

Content and structure of the minor

Information and Service Management 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. Minor studies in Information and Service Management offer an interdisciplinary education that allows the student to focus on economic analysis and quantitative modelling, management information systems, or logistics and service management. While the minor 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,
- supply chain management: sourcing, production and distribution of operations of service and manufacturing industries and
- mathematical methods and statistical analysis

Structure of studies 18-24 cr

If the mandatory course 35A00310 Tuotantotalouden perusteet is a compulsory part of your degree and is settled in e.g. the module Liiketoimintaosaamisen perusteet, the minimum extent for the minor is 18 ECTS credits. In other cases, the minimum is 24 ECTS credits, including the course 35A00310 Tuotantotalouden perusteet.

**Mandatory core course 6 cr for those who haven’t included it in Liiketoimintaosaamisen perusteet**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>35A00310</td>
<td>Tuotantotalouden perusteet</td>
<td>6 cr</td>
<td>V</td>
</tr>
</tbody>
</table>

Focus area studies 18 cr

There are three suggested focus areas: Business Analytics, Information Systems Science and Logistics and Service Management. **You can also mix courses from these three focus areas.**

**A. Business Analytics**

**Coordinator:** Merja Halme

Choose 3 courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISM-C1004</td>
<td>Business Analytics 1</td>
<td>6 cr</td>
<td>II</td>
</tr>
<tr>
<td>30C02000</td>
<td>Negotiation Analytics</td>
<td>6 cr</td>
<td>V (2020-2021)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Not lectured 2021-2022</td>
</tr>
<tr>
<td>ISM-C1100</td>
<td>Tilastotieteen jatkokurssi ja R *)</td>
<td>6 cr</td>
<td>III-IV</td>
</tr>
<tr>
<td>30C00200</td>
<td>Econometrics</td>
<td>6 cr</td>
<td>III</td>
</tr>
</tbody>
</table>
Can be included in the minor only if not included in the studies in major

Replaces course 30C00350 Mathematics II and 30C00300 Mathematical Methods for Economists. Only one of them can be completed.

B. Information Systems Science

Coordinator: Virpi Tuunainen

Choose 3 courses from the following:

- **37C00100 Management Information Systems** 6 cr  IV
- **37C00250 Capstone: Information Systems Development** 6 cr  III
- **37C00400 Programming I** 6 cr  I
- **37C00450 Programming II** 6 cr  II
- **ISM-C2002 MySQL For Data Analytics** 6 cr  I

or courses from list A and list C, or studies at another Department or Aalto School, which must be approved by the minor coordinator in advance.

C. Logistics and Service Management

Coordinator: Markku Kuula

Following 2 courses and 1 from list A or B

- **35C0300 Process Analysis and Management** 6 cr  I
- **35C0400 Global Logistics and Distribution Networks** 6 cr  IV

Replaces course 35C00100 Distribution and Logistics Services. Only one of them can be completed.

or courses from list A and list B, or studies at another Department or Aalto School, which must be approved by the minor coordinator in advance.