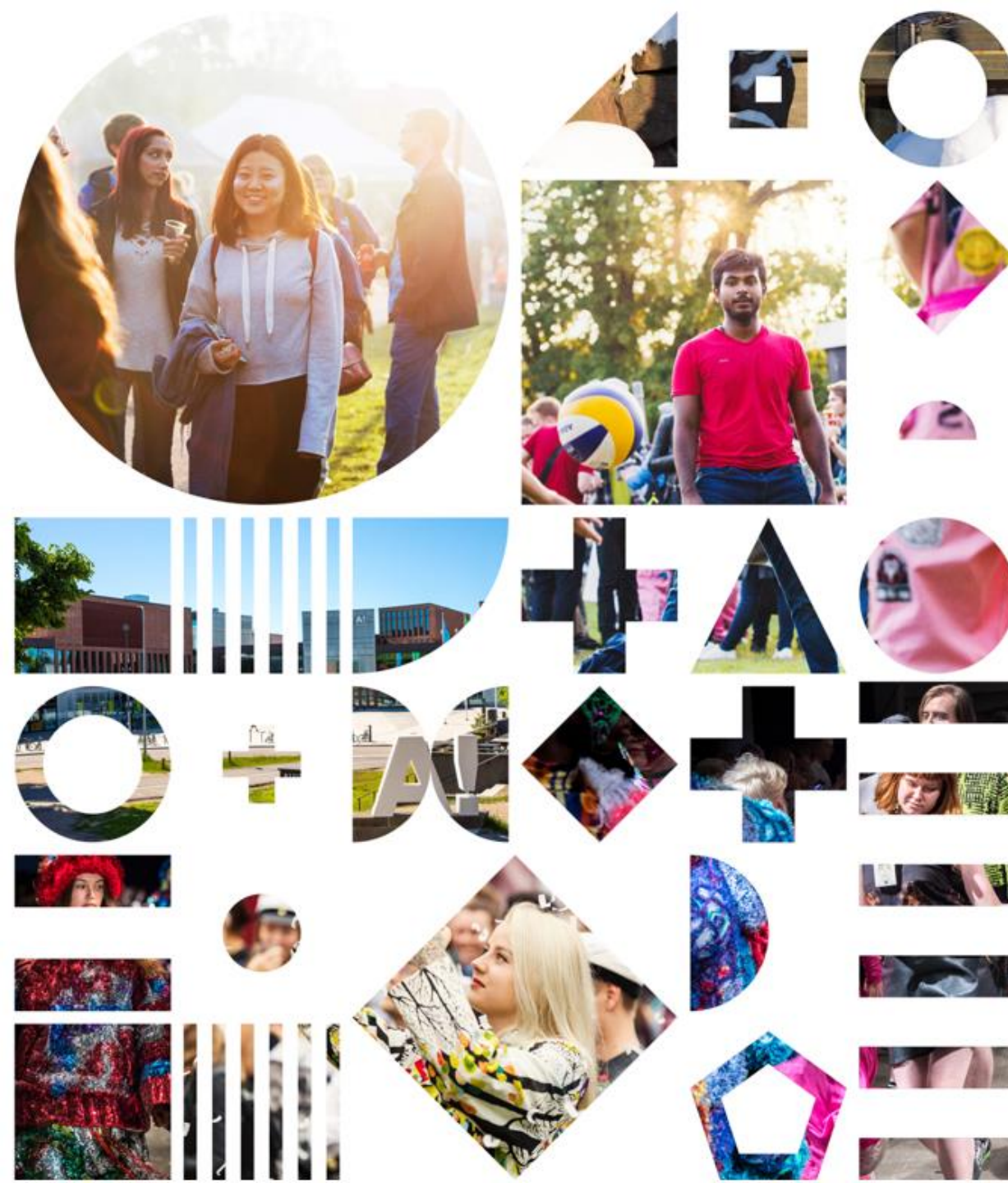




Aalto University
School of Business

Information and Service Management New Students 2025 – Welcome!

28.8.2025



Program

Welcome to the Information and Service Management (ISM) programme!

- Meet your fellow students
- Meet faculty members
- Programme and studies
- Information Technology Programme (ITP)
- Aalto BT student club

- Q & A



Meet your fellow students

In a group of 2-3

- Introduce yourself briefly
 - *Find one or more things that you have in common*
- *4 min*

Meet your faculty

Faculty introductions & what courses they teach

Learning themes

- Use and develop data analysis and business intelligence in organisations
- Apply quantitative and data driven decision making
- Develop processes and operations
- Analyse and develop digital services
- Introduce AI to businesses
- Understand security and privacy of data assets
- Manage resilient and sustainable supply chains
- AI!** • Lead people and projects



Typical job profiles



Analyst

- Business intelligence and data science



Consultant

- Information based services development
- Digital services
- Supply chain sustainability and resilience



Project manager



Product manager



Supply chain/ Sourcing/ Logistics manager

Placement Survey Results for ISM

Students who graduated in 2023

- 70 % of the graduates had found the first employment before graduation, 15 % already had a job before studies and 10 % found a job after graduation
- After a year, 95% were employed
 - *(permanent job 88 %, fixed-term 2 % and entrepreneur 2 %)*
- 98 % of the respondents were overall satisfied with the degree
- Very good starting salaries
- Most important factors to find the first employment: Combination of subjects in the degree, ability to tell people about your skills, contacts / networks, internship in Finland

Work and studies

- Do not think about working full time in the first year!
- Part time work can be an option but you might need to take less courses
- Working full time + thesis is not easy combination

ISM Specialization areas



Business Analytics focus helps you learn how to *solve business problems with a data-driven approach*.



Information Systems focus helps you learn how to *manage and develop digital businesses*.



Supply Chain Management focus helps you learn how to *manage and develop companies' complex supply chains in the network economy*.



Curriculum 2024-26: <https://www.aalto.fi/en/programmes/masters-programme-in-information-and-service-management/curriculum-2024-2026>



Aalto University
School of Business

— **ISM Specialization area**

Supply Chain Management

Professor Katri Kauppi

Fifth of all global CO2 emissions come from the supply chains of large multinational companies such as Total, BP and Coca Cola, study finds

- Report reveals the scope of big companies' power in climate change prevention

European Union: Due Diligence in Supply Chains

BY SEHER BUDAK - JULY 26, 2023 - 3 MINS READ

Cadbury faces fresh accusations of child labour on cocoa farms in Ghana

DHL says supply chain must drive move to circular economy

January 26, 2022 • 5 mins

Supply chains

+ Add to myPT

Supply chain managers in demand as businesses hit by shortages

THE BIG SUPPLY CHAIN TALENT SHORTAGE

Climate change will disrupt supply chains much more than Covid — here's how businesses can prepare



Special Report UK's Leading Management Consultants

Supply chain bottlenecks: 'It's been nuts'

...“It's been absolutely nuts,” says Brian Higgins, head of KPMG's U supply chain and operations practice....



Apple Inc

Apple forecasts up to \$8bn hit from supply chain problems

...Apple executives warned that the group could sustain a hit of up to \$8bn in the current quarter from headwinds including supply chain shortages and factory shutdowns in China, underscoring how the challenges...

Supply chain traceability – the next revolution?

November 2022 | FEATURE | BOARDROOM INTELLIGENCE

Supply Chain Analytics Market Statistics - 2027

The global supply chain analytics market size was valued at \$4.53 billion in 2019, and is projected to reach \$16.82 billion by 2027, growing at a CAGR of 17.9% from 2020 to 2027. Supply chain analytics targets to improve operational efficiency and effectiveness by enabling data-driven decisions at strategic, operational, and tactical levels. It incorporates virtually the complete value chain including sourcing, manufacturing, distribution, and logistics. Supply chain analytics helps in increasing

A Tech 'Golden Age' Awaits Supply Chains Limping Out of the Pandemic

- Investors injecting \$9 billion a quarter into logistics tech



Aalto-yliopisto
Kauppakorkeakoulu

SCM courses on offer

Sustainable Supply Chains

One of the 2/3 core programme studies courses
(offered now in 1st period)

Operations and Supply Chain Analytics

Quality and Performance Management

Procurement and Strategic Sourcing

Revenue Management and Demand Analytics

Coordination of Supply Chains

Capstone: Future-proofing supply chains

Recommended towards end of
your studies. Real-case-based
course, practice consulting



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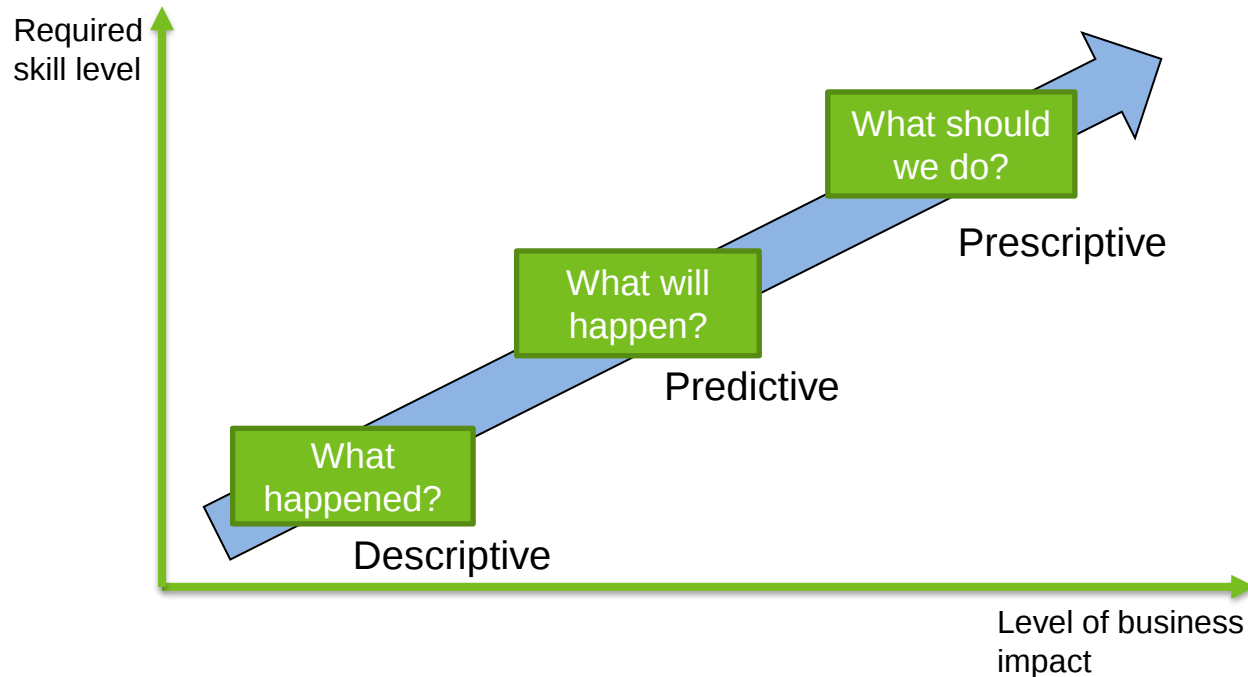
— ISM Specialization area

Business Analytics

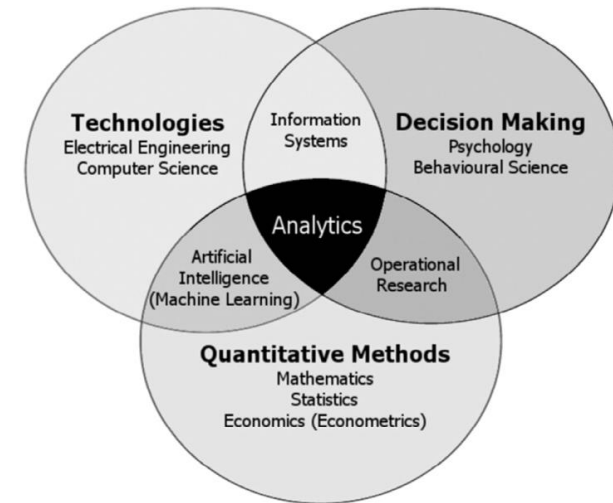
Professor Juuso Liesiö

Business Analytics

Business Analytics: Better decision making through the utilization of data and analytical methods (i.e., statistics, math. modelling, optimization, machine learning, simulation, decision analysis, game theory)



Source: Kart, L. "Advancing analytics", Gartner Inc. (2012)



Mortenson, Doherty, Robinson (2015). "Operational research from Taylorism to Terabytes", *European Journal of Operational Research*

Business Analytics

Business Analytics: Better decision making through the utilization of data and analytical methods (i.e., statistics, math. modelling, optimization, machine learning, simulation, decision analysis, game theory)

	A U T U M N	S P R I N G
	30E00400 Simulation 30E03500 Capstone: Data Science for Business 2	ISM-E1005 Forecasting Methods in Business Analytics ISM-E1006 Decision Analytics for Consulting ISM-E1007 Current Topics in Analytics Research
	CS-E4715 Supervised Machine Learning CS-E5710 Bayesian Data Analysis 30E03000 Data Science for Business 1 ISM-E1002 Survey Research D	MS-E2112 Multivariate Statistical Analysis ISM-E1004 Business Analytics 2 ISM-E1002 Survey Research D 30E03000 Data Science for Business 1 ISM-E1009 Analytics for Sustainability
Suggestions for elective studies of degree by programme	CS-C3240 Machine Learning ISM-C1003 Mathematical tools for analytics ISM-C2022 MySQL for Data Analytics ISM-C1004 Business Analytics 1	MS-C2128 Prediction and Time Series Analysis 37C00400 Programming I 30C02000 Negotiation Analytics



Aalto University
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— ISM Specialization area

Information Systems Science

Associate Professor Esko Penttinen

Learning themes

ICT enabled / supported services

- Service design methods
- Service product management
- Social media, crowdsourcing, many-sided markets
- AI support for business

Business models

Digital management

- Management of digital transformation
- Consulting and leading implementation
- Challenges of implementing and discontinuing information systems
- Technical debt
- Security and privacy

Information Systems Science courses

Information systems courses by ISM department

Information Economy	One of the 2/3 core programme studies courses (period IV)
Strategic Information Technology Management	
Capstone: Project Management and Consulting Practice	Capstone course is recommended towards end of your studies.
Capstone: Business Intelligence	
Ethics in Digital Innovation	
Information Security Management	
Introduction to Digital Service Design	
Digital Service Product Management	
Current Topics in Digital Business	
Critical Issues in Information Systems Research	

Intro courses (if needed)

Programming I or Basics in programming Y1
MySQL for Data Analytics

Courses by Computer Science department

Web Software Development (intermediate level)
Human Computer Interaction (intermediate level)
Design of WWW Services (advanced level)
User-Centered Methods for Product and Service Design (advanced level)

Related Business Law courses

Aineettomat oikeudet liiketoiminnassa (intellectual property rights)
Data protection

Information and Service Management programme studies 2024-26

	I Period	II Period	III Period	IV Period	V Period	
Core courses: Choose 2 courses (12 ECTS)	35E03000 Sustainable Supply Chains		ISM-E1004 Business analytics 2	37E00100 Information Economy		Business analytics track
Elective courses in ISM: Choose 33-39 ECTS (about 6-7 courses)	35E02000 Procurement & Strategic Sourcing ISM-E2006 Ethics in digital innovation 30E03000 Data Science for Business 1 ISM-E1002 Survey Research 30E00400 Simulation	ISM-E3003 Operations and Supply Chain Analytics 37E00200 Strategic Information Technology Management	35E00550 Quality and Performance Management ISM-E2003 Information Security Management ISM-E2004 Introduction to digital service design ISM-E1005 Forecasting Methods in Business Analytics ISM-E1002 Survey Research	ISM-E3004 Revenue Management and Demand Analytics ISM-E2005 Digital Service Product Management 30E03000 Data Science for Business 1 ISM-E1006 Decision Analytics for Consulting	35E00400 Coordination of Supply Chains ISM-E2222 Current Topics in Digital Business 37E44000 Critical Issues in Information Systems Research ISM-E1007 Current Topics in Analytics Research ISM-E1009 Analytics for Sustainability	Information Systems Science track
BSc level ISM courses (letter C in course code)	ISM-C2002 MySQL for Data Analytics	ISM-C1004 Business Analytics I	37C00400 Programming 1		30C02000 Negotiation Analytics	Supply Chain Management track
Courses from other departments	ISM-C1003 Mathematical tools for analytics (period I-II) Or 10 other options	Or 5 other options	Or 5 other options		Or 1 other option	
Capstone: Choose 1 course (6 ECTS)		37E01500 Capstone: Project Management and Consulting Practice 30E03500 Capstone Data Science for Business 2	ISM-E3002 Capstone: Future-proofing supply chains	57E00500 Capstone: Business Intelligence		
Compulsory courses (2nd year) (33 ECTS)	Thesis + seminar + maturity test		Thesis + seminar + maturity test			

Recommendations for intro courses, if needed

ISM-C2002	MySQL for Data Analytics	Period I
ISM-C1004	Business Analytics I	Period II
37C00400	Programming I (MOOC)	Period III
ISM-C1003	Mathematical Tools for Analytics	Period I-II
CS-C3240	Machine learning (SCI)	Period I
ABL-E2606	Data Protection	Period I
MS-A0503	First course in probability and statistics (SCI)	Period III

How to choose a concentration and relevant courses?

What are your own interests?

What kind of jobs you are interested in?

Talk with the student and academic tutors

Hadi Ghanbari (ISS), Seongtae Kim (SCM), Ilkka Leppänen(BA)

Check the example study paths on the Aalto BT (subject club) pages (created together with students and teachers).

Be flexible!

A!

Book a meeting with an academic tutor!

Recommended:

Within the next few weeks book a short meeting with an academic tutor to go through your study plan and to ask any questions in your mind.

Academic tutors are teachers who help students to think about different study and career paths in different areas of specialization in ISM.



Hadi Ghanbari (ISS)
hadi.ghanbari@aalto.fi
Book a meeting [here](#).



Seongtae Kim (SCM)
seongtae.kim@aalto.fi



Ilkka Leppänen (BA)
ilkka.j.leppanen@aalto.fi

Most popular minors for ISM students

Exchange studies

Finance

Computer Science Minors (intermediate, advanced level)

Business Law (intermediate, advanced)

Analytics and Data Science

Marketing

Information Technology Programme (summer)

Machine Learning, Data science and Artificial Intelligence

Security and Cloud Computing

Software and Service Engineering

See more at: <https://www.aalto.fi/en/minors>



INFORMATION TECHNOLOGY PROGRAM

The background of the slide features a blurred image of a laptop with hands typing on the keyboard. Overlaid on the laptop screen are binary code (0s and 1s) and a network diagram with nodes and connecting lines.

30 years of innovation and collaboration



Varun Kishore

ISB Track coordinator

varun.kishore@aalto.fi



Lia Hietavirta

SED Track coordinator

lia.hietavirta@aalto.fi



SUMMER MINOR TWO TRACKS

Information Service Business

Digital Service Innovation (6 ECTS)

Data-Driven Decision Making (6 ECTS)

Strategic IT Management (6 ECTS)

Strategy Experience Design

Design Strategy (6 ECTS)

Service Creation (6 ECTS)

User Experience Design (6 ECTS)





AT THE END OF THE SUMMER STUDENTS GAIN

24 to 30 credits
as a minor or electives.

Experience working
for a real business.



Master's thesis

- You can already start thinking about the topic in 1st year courses
- No need to know the topic before starting the thesis seminar
- Seminar starts either in September or in January
- After the intro lectures the student contacts a supervisor that suits the topic

You can find more about the thesis and seminar on MyCourses:
<https://mycourses.aalto.fi/course/view.php?id=48121>

Personal Study Plan

- Create your study plan in Sisu
 - Add 120 cr to have a draft
 - Time the courses evenly for periods (12 cr/period recommended)
 - Deadline for requesting approval in Sisu **31.10.**
 - Application is directed to me and I approve the application or give comments.
- If you want to do more courses than 120 cr
 - you can add the course to the electives in order to register and remove later if you don't want to include them in the degree
- All the courses you have marked in the final PSP will be part of your diploma
 - until graduation you can change the courses in your plan

A!

Planning Officer

- Student counselling in study related issues (incl. Credit transfers)
- You can contact me
 - By email: anna.kuparinen@aalto.fi
 - By phone: 050 376 5328
 - By booking a meeting through MyStudies: mystudies.aalto.fi
 - Campus or online meeting possible

— **Subject club**

Aalto BT



Questions?





Thank you! Kiitos!