

Course syllabus for

P05: Trend spotting – How to identify the future gaps?

Syllabus adopted 2021-06-17 by Professor Bengt-Göran Rosén, Produktion2030 Head of Education



Credits 7,5 hec

> (student hours: 200 hours; 9 meetings of 4 hours in class (online or physical, if physical 3*12 hours sessions) + 5 meetings of 2 hours online in project groups + 152 hours of own work)

Grading scale Satisfactory/not satisfactory

Education cycle Third-cycle

Examiner Kerstin Johansen, Jönköping University

Fulfilled 120 hec in a 3rd cycle program (2yrs of research) or Eligibility

equivalent.

Aim The course aims to give an introduction into the area of Trend

spotting including training in trend spotting related to ongoing

research.





















Intended learning outcomes

After completion of the course the course participant should:

Knowledge and understanding

- have the knowledge about how to perform a trend spotting using Hoshin Kanri
- demonstrate knowledge in technology road-mapping
- have knowledge about and be able to discuss trends from a multidisciplinary perspective as well as in line with new emerging fields relevant for integrating product and production development needs

Skills and abilities

- demonstrate an ability to perform trend spotting relevant for its own field of research as well as related to industrial needs
- demonstrate an ability to develop a technology road map relevant for its own field of research

Judgement and approach

- demonstrate an ability to relate that trendspotting skills and results to a research gap
- demonstrate insights into the industrial challenges in the era of emerging technologies, digitalization and circular economy

Course content

The course is centred around the ability to identify knowledge gaps through trend spotting as well as developing technology road maps which contributes to identify future research topics.

Course organisation

200 hours student work; 9 meetings * 4 hours in class (online or physical, if physical 3*12 hours sessions) + 5 meetings of 2 hours online in project groups + 152 hours of own work)

To be further described in the table below.

Examination

Active participation at 75% of the meetings including oral presentations at compulsory seminars.

Presenting an own technology road map

Hand in answers to all Quizzes

Providing questions, intervious and a trend coeffing road.

Providing questions, interviews and a trend spotting report in a project group work.

Literature

Book and relevant academic papers, such as – to be further developed:



Melander, A., Andersson, D., Elgh, F., Fjellstedt, F., Löfving, M., Thulin, M., Hoshin Kanri, Studentlitteratur – English version planned for autumn 2021

https://www.studentlitteratur.se/kurslitteratur/organisationoch-ledarskap/organisation/hoshin-kanri#show

Phaal, R., Farrukh, C.J.P., Probert, D.R. (2004) Technology roadmapping – A planning framework for evolution and revolution, *Technological Forecasting & Social Change*, Vol.71, pp.5-26

Bereznoy, A., (2019) Corporate foresight in the strategy of multinationals, *Working Paper National Research University Higher School of Economics*, WP BRP 97/STI/2019, pp.1-30

Course dates and activities – To be developed:

	To prepare / read	Activities – To be further detailed, and
Session / Date	before the session	adopted before course start
	Prepare a one-pager	
#1 2021-12-06	about your research –	
13:00 – 17:00	Context for the	
(virtual)	research, Purpose,	Course introduction
	Keywords, Expected	Societal visions for the future industry incl circular
	outcome	economy
Jan 2022 –		Introduction to Hoshin Kanri and technology
second half	Start to read the book	mapping
Feb 2022 – mid	The book should be	Hoshin Kanri seminar
	read	
Mar 2022 - mid	TBD	Guest lecture about emerging technologies and/or
		study visit at company
Mar 2022 - mid	TBD	Literatura cominar about amountment achualaria
Iviar 2022 - mid	IBD	Literature seminar about emerging technologies
Apr 2022	TBD	Guest lecture about digitalization related to
First half		industrial challenges and/or study visit at a
		company
Apr 2022	TBD	Literature seminar about digitalization and related
First half		industrial trends
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May 2022	TBD	Technology mapping seminar – individual project
Mid		presentation
May 2022	TBD	Final seminar – Group project presentation
Mid	100	I mai seminai Sroup project presentation
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