

A?

Aalto University
School of Electrical
Engineering

Intelligent buildings

Group work

Goal of the work

You should design an **intelligent maintenance solution for buildings and real estates, which make maintenance work more effective with lower the costs.**

- Solution is mainly for needs of maintenance companies, but effective and cheaper services will also to be used in campus of of Aalto University.

Most important is, that your solution is something that creates the **value** for both the **customer** (ARCE) and **service company** (ISS, L&T (Lassila&Tikanoja), or Palmia).

Ways to work

Work is based own thinking and interviewing some professional the people

- First interview: Professional from L&T, ISS or Palmia
- Second interview: Professional from ACRE

- **Only two interviews per one group**

- **Online interviews**



Groups

10...11 groups with four...five person in each

Teams are preliminary selected, see MyCourses

Contact you team and inform (jaakko.ketomaki@aalto.fi) **by tomorrow (27.10)** if

- some team member will not participate on the course -> possibly combining the groups and there is still some "orphan" students
- You don't have a group

Groups

			Nyländen	Mikael Eerik	4	Soinio	Tuomas Verner	8
			Järvistö	Alexander Christian	4	Suominen	Miika Markus	8
			Nedergård	Benjamin Jarl Einar	4	Wimmer	Maria Tuulia	8
			Schenk	Daniela Claire	4	Hakala	Henri Olavi	8
			Laakkonen	Amanda Elisabeth	4	Czibere	Szilárd	8
Ahmed	Mehwish Noreen	1	Pulkkinen	Mari Hannele	5	Katajamäki	Erkka Pekka Samuli	9
Torkki	Janika Tuulia	1	Markkanen	Nico Petteri	5	Pirttimaa	Tiia Maria	9
Luoto	Anni Amanda	1	Zhao	Shihan	5	Hammer	Ismo	9
Berg	Antti Oskari	1	Jaanto	Jasmin Anna-Sofia	5	Zokirov	Zafar	9
Jyrkönen	Saara Kaarina Kristiina	1	Barrios Castilla	Daniel	5			
Zhegrova	Labinot	2	Värä	Arina	6	Wang	Yangmin	10
Jhunjhunwala	Pranay	2	Chowdhury	Maisha Suha	6	Koski	Visa Oskari	10
Pham	Minh Duc	2	Virta	Antti Ilari	6	Penttilä	Tommi Juhani	10
Paasovaara	Ville Oskari	2	Styrström	Filip Johan Wilhelm	6	Kiiskinen	Milla Matleena	10
Bludzius	Tomas	2	Carvan	Ondrej	6			
Virtanen	Erna Katariina	3	Kaartinen	Sami Christian	7			
Nurmes	Olli Eemeli	3	Kirchner	Max	7			
Eriksson	John Sebastian Mikael	3	Sanchez Ruiz	Almudena	7			
Zhang	Ruqian	3	Lapila	Siiri-Amalia	7			
Moglianesi	Andrea	3	Balmori Elosegui	Paloma	7			

Interviews of maintenance companies

L&T (Lassila & Tikanoja), ISS, Palmia

Companies are given by groups beforehand randomly as follows

Group 1	L&T	Group 6	ISS
Group 2	L&T	Group 7	L&T
Group 3	Palmia	Group 8	Palmia
Group 4	Palmia	Group 9	ISS
Group 5	ISS	Group 10	ISS

Outcome

Written report, max 10 pages

- Description of problem
- Description of your solution
- Description of your way towards to solution
- Developed and tested ideas (or some of them)
- Your proposal for the business model for your solution

Presentation

- 5 min in final lecture 9.12.
- Jury is with us...

Presentation material

- Slides

Milestones

- Forming the groups: beforehand and during 26.-27.10.
- First lecture (basic of user centered design): 26.10.
- Workshop at second half of the lecture at **2.11.**
- Interviews (ISS, L&T, Palmia): **week 45 & 46**
 - DL for meeting reservation 29.10 and for questions 4.11.
- Clinics, where you will get feedback of your work: **13.11. 13->**
- Meetings of ACRE **17.11.** or **22.11.**
- Clinics, where you will get feedback of your work: **29.11. 13->**
- DL for presentation slides: **5.12.**
- Final presentations: **7.12.**
- Final DL for reports: **13.12.** (tight)

Interviews of ISS, L&T and Palmia

Each group will make an interview to one company (30...60 min)

Preliminary questions will be sent beforehand (DL 4.11) to companies

jari.tiirikainen@fi.issworld.com

anne.salonen@lassila-tikanoja.fi

mari.ahlgren@palmia.fi

Select the suitable time slot from Doodles (DL 29.10)

ISS:https://doodle.com/poll/m7iavt8xmfhw6uyg?utm_source=poll&utm_medium=link

Palmia:https://doodle.com/poll/wqsm53mrymskf9i5?utm_source=poll&utm_medium=link

L&T:https://doodle.com/poll/wvww4ptf8yf9v8p5?utm_source=poll&utm_medium=link

Clinics

Clinics are at 13. and 27.11. at Zoom

You will get feedback and guidance

Submission

Submit the presentation slides and final report to folder in MyCourses



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