



JÖNKÖPING UNIVERSITY
School of Engineering

Welcome to the programme Materials and Manufacturing and the first 2 courses

The programme and its first two courses starts on Monday the 14th of August. To get a good kick-off you are all invited to an Introduction Day. The introduction day contains a physical meeting on campus, where we meet in room E1405. The agenda of this day is as follows below and contains a mandatory workshop in the Component Casting course (MAGMA software):

Agenda

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|-------|-----------------------------------------------------------------------------------------------------------------|
| 09.30 | Coffee and mingle together with teachers and program managers. |
| 10.00 | The programme and its history |
| 10:30 | Host Company model |
| 10:40 | Short presentation of participants! |
| 10:50 | Break |
| 11:05 | How it works: Ping Pong, Adobe Connect, IT Helpdesk, Library, Evaluation of courses and other practical issues. |
| 11.45 | Short introduction to the starting courses (Component Casting & Microstructural Engineering) |
| 12.00 | Lunch and getting the JU cards |
| 13.00 | JTH Labs tour |
| 13:45 | Coffee break |
| 14:00 | Component Casting workshop |
| 17.00 | The End |

“Roll call”

There is no traditional “roll call” taking place on the Introduction Day. Instead you need to do the following to ensure completing your admission:

1. Accept the admission (by latest 28th of July; see Antagning.se)
2. Register
3. Log in to Ping Pong (our online teaching platform)
4. Add yourself to the programme event in Ping Pong and/or to the single courses you will study

After these steps you are “roll called” for the programme and/or the courses.

The registration to the programme and the first 2 courses opens on the 7th of August and ends on the 13th of August.

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Kommenterad [F1]: Completing?
Do you mean they need to do these before they come to the Introduction day? Or?

Use the username and password created, when you registered, to log in to Ping Pong at <https://pingpong.hj.se>.

When you are logged in to Ping Pong, find the programme “Material och tillverkning – start hösten 2017” under the menu Events (Aktiviteter) and the selection Catalogue (Katalog). To add yourself to the programme click Start (Starta). The code for the programme is TAPU717. To add yourself to the courses find “Component Casting - TGJK17 - A17 (WEB)” and/or “Microstructural Engineering - TMER27 - A17”. The code for Component Casting is TGJK17A1733W and the code for Microstructural Engineering is TMER27A1733.

From now on you will find the programme event and the course events under Events (Aktiviteter) and the selection “My events” (Alla mina aktiviteter).

Presentation of You

For the Introduction Day, please prepare one slide in PowerPoint, where you present yourself shortly (your name, where you live, what have you studied, working experience, personal interests...) and send it to nils-eric.andersson@ju.se by the latest on the **13th of August**. The presentations will be uploaded to the programme event on Ping Pong. In this way, it will be easier for students to get to know each other but also for the host companies to get an overview of available students.

JU card

Prepare your JU card ahead of the Introduction Day by uploading a picture of yourself at <https://kas.hj.se/MyAccount/>. There is also a possibility to take a photo when you are here at the campus. Don't forget to bring a valid ID to campus to get the physical JU card.

At Campus a JU card improves your mobility when you are visiting for future laboratory exercises and exams.

Short introduction of the starting courses

Component Casting

This course opens the door to the fascinating world of casting! Here you will get familiar with different component casting processes and several casting related phenomena as heat transfer, solidification, microstructure formation, defects and residual stresses. You will also get a basic overview of how these phenomena relates to the design of the component and can be investigated using casting process simulation software.

Microstructural Engineering

This course continues the journey into the fascinating world of castings! This course gives a deeper understanding of what happens when the casting solidifies. The topics covers the fundamentals of solidification, including nucleation and growth of primary and eutectic phases. Examples are given on different methods and approaches to control the microstructure such as grain refinement and eutectic modification. The feeding of castings is discussed and also the rheological behaviour during solidification. Microstructure formation in Al alloys and cast irons are discussed in particular. The second part of the course covers heat treatment, solid state transformations and the relation between microstructure and mechanical properties of castings, including property distributions in different parts of castings.

We look forward to meeting you

Kommenterad [F2]: Where is this? Website address?

Please do not hesitate to contact us if you need further information.

Yours Sincerely

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|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Program manager | |
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