

Welcome to DAT096 2020

(slightly revised after lecture)

Lena Peterson

Sven Knutsson

Today - 3 parts

- 13.15 - ~14.00 Course Introduction/Lena
- 14.15 - ~14.45 Introduction to project tasks + teams/Lena & Sven
 - Break with team & fika (bulle provided)!
- 15.15 - ~17.00 Introduction to team diversity and team development
- Preparations for workshop next Monday:
Jan 27

Part 1

- Learning outcomes
- Deadlines for deliveries, presentations etc
- Group dynamics and diversity 2020
- Process
- Teachers & schedule
- Changes 2020
- What's next in planning phase
- Advice from previous year

Learning outcomes

After completion of this course, the student should be able to:

- Apply her/his ***technical expertise*** to a multi-person project where an electronic product (FPGA / ASIC) is ***specified, designed, implemented, and verified***.
- Proficiently use ***modern EDA tools*** for FPGAs / ASICs.
- Contribute, in several team roles, to a ***multi-person project*** where an ***industry-like project model*** is used. This includes planning, follow-up and trade offs under resource constraints.
- Reflect on the ***group process in an international team***.
- Write an ***academic report***, with several authors, describing a product-development project, ***with correct handling of references and including relevant ethical aspects***.
- ***Document*** an electronic product technically, including testing and verification documentation.

Why these outcomes?

- Skills for working life:
 - Expected by employers
- Skills for master's thesis:
 - Expected by supervisor and examiner

Team deliveries:

- **Feb 10:** Team agreement (in sealed envelope)+ student course representative proposals
- **March 27:** Half-time academic report
 - Preliminary version of academic report
- **May 27:** Final version of academic report
- **May 29:** Product with documentation & contribution report
- Exam week 24 hours before closeout meeting: team reflection report.

Team presentations

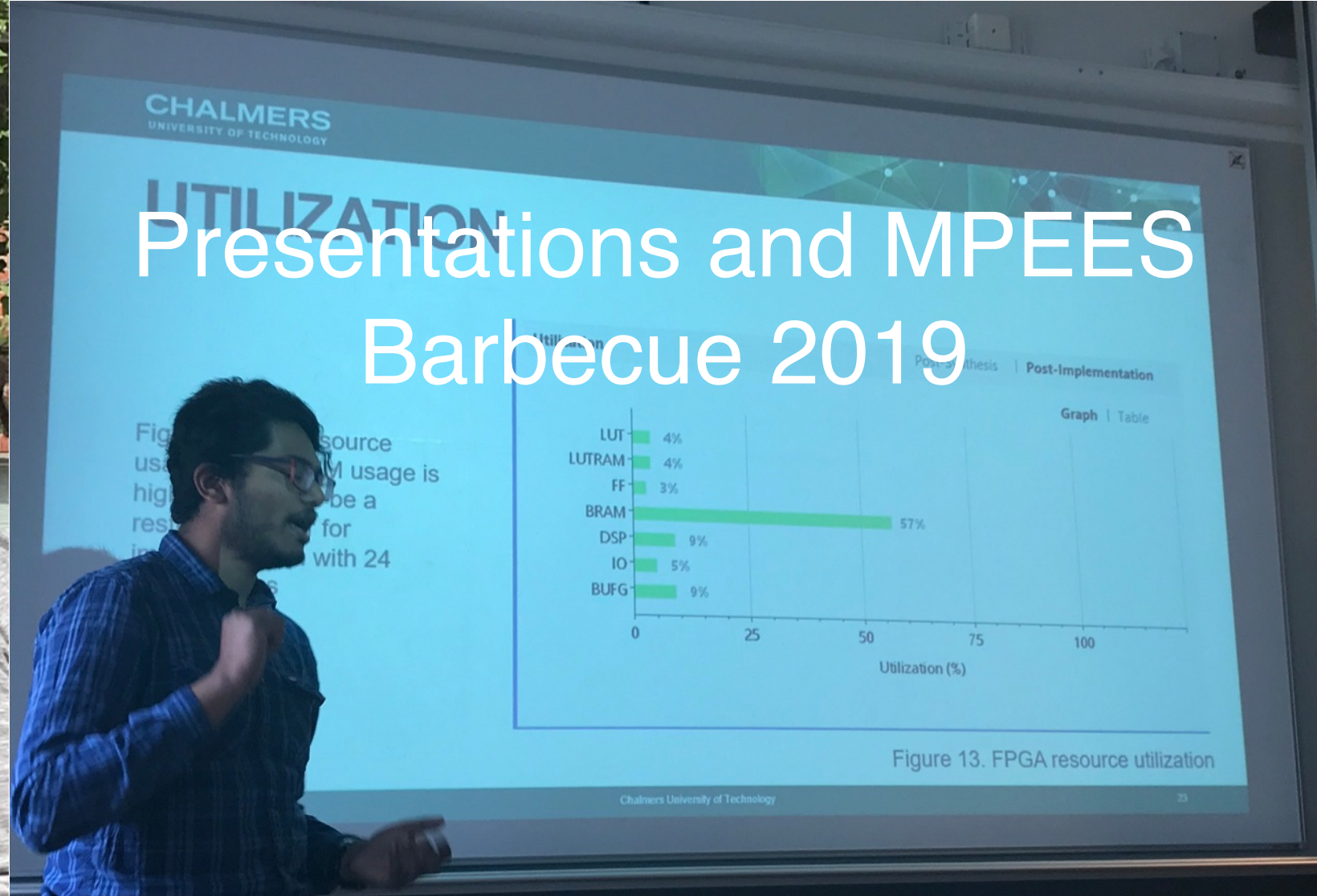
- Monday **March 30**(PM) half-time presentation
 - Technical achievements so far
 - Increment for sprint 2 (& 1)
- Monday **June 1** (AM) final presentation
 - Focus on technical result as described in final academic report
- Everybody in team should attend but only two students/team present each time.

Individual submissions

- **March 5** Half-time team-member assessment
 - Serves as input for your meeting with Becky in week 8 + sprint 2 retrospective.
- **March 6** Individual ethics assignment (added last year)
- **June 1** Final team-member assessment
 - Serves as input for grade distribution and project closeout meeting.

Group dynamics and diversity

- Introduction today
- Diversity survey week 1 (deadline Thursday Jan 23) in Canvas
- **Monday January 27 13.15-17.00 with Becky**
 - Team exercise, Note: in **VASA6**
- Team reflection meeting period 3, week 8 (doodle soon)
- **Thursday April 2** Conflict management



Assessment incl. grade calculation

- Team base grade:
 - Academic report: 40%
 - Product: 30%
 - Process: 30%
- Grade redistribution among team members
- Read document - ask if anything is unclear!

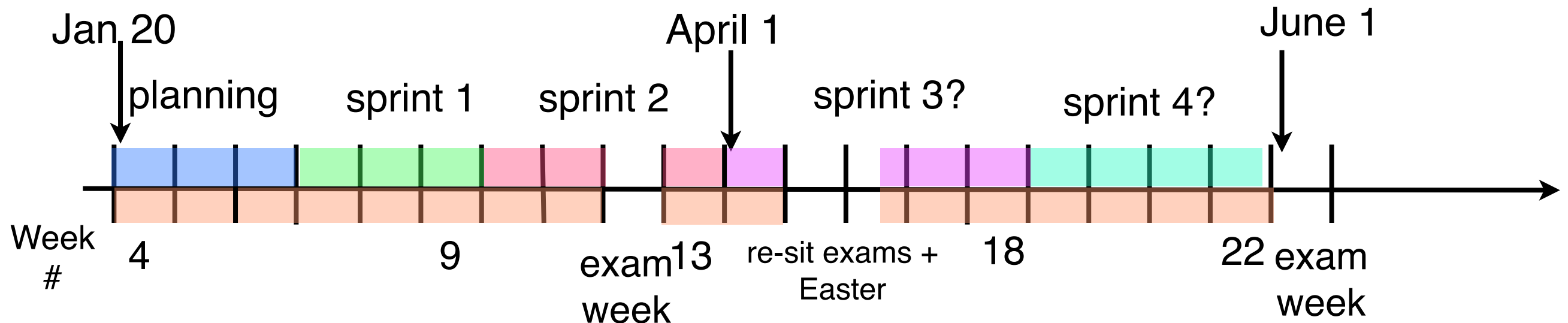
Process

- Weekly meeting w. team support person (Lena)
- Scrum: Sprint planning and review + retrospective
- Individual logbooks:
 - Time spent and on what.
 - Weekly deadline Sunday night.
- Team log book:
 - Record team progress, decisions
 - Bring up impediments
- Lectures, labs, study visits and consultations

Individual logbooks **not** in Canvas

- Use Office365/google sheets
- Template available in Canvas
- Set up so you can share link with teachers
- Lena will give feedback using Canvas messages

Time line 2020



Sprint 1 and 2 lengths given - the rest up to each team to decide.

20 weeks at half time = $20 \times 20 = 400$ hours/person

Note: There are only 17 study weeks.

Teachers



Sven Knutsson



Bhavisha Goel



Christian Križan



Lena Peterson

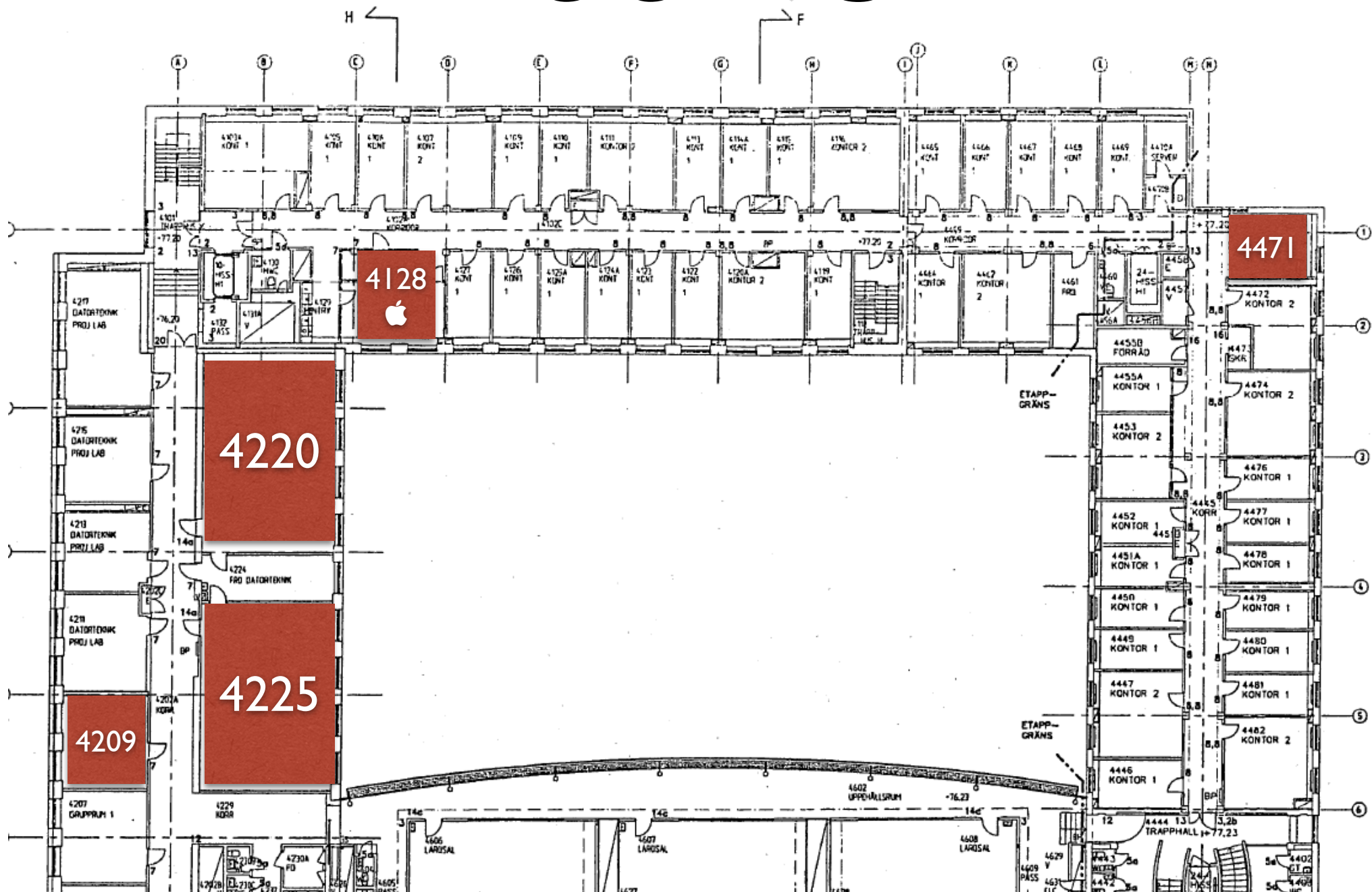


Anthony Norman



Becky Bergman

Rooms




Laboration in TimeEdit means lab is available for you!
Your pass cards should work in 4220, 4225 and 4209 (now!)
Lockers for M teams in 4209, Q teams in 4220

Schedule

TE Chalmers					Account
Chalmers / Öppen schemavisning / Chalmers University of Technology					
Today < Jan > Now - 2020-06-21 Change search DAT096, Embedded system design project					Subscribe Download Filter Customize
w5	Monday 27/1	Tuesday 28/1	Wednesday 29/1	Thursday 30/1	Friday 31/1
8	08:00 DAT096, Embedded system design project, ED4225, MPEES-1, Laboration			08:00 DAT096, Embedded system design project, EL41, EL43, MPEES-1, Lecture	08:00 DAT096, Embedded system design project, ED4220, MPEES-1, Laboration
9					
10					
11					
12					
13	13:15 DAT096, Embedded system design project, Vasa6, MPEES-1, Lecture		13:15 DAT096, Embedded system design project, ED4225, MPEES-1, Laboration		13:15 DAT096, Embedded system design project, ED4225, MPEES-1, Laboration
14					
15					
16					
17					

[Link to this page](#) [Text](#)

Note! Detailed schedule to be kept in Canvas
More info and updated.



Be prepared to modify your plan.

To think about individually

- What skills/knowledge do I have?
- What skills/knowledge do I want/need to improve?
- An opportunity to test roles that you do not usually take
- Learning goals vs performance goals
- Also check learning outcomes.

Changes for 2020

- Updated Canvas use:
 - Move individual logbooks out of Canvas
 - Use Canvas calendar for detailed schedule information
 - General rearrangement
- Smaller teams (4 rather than 5-6 students) to facilitate cooperation
- New project about quantum-computer control
- Thursdays for technical info (planning phase)+ more active product owners
- Conflict management as workshop rather than lecture
- Earlier course-evaluation questionnaire
- Some other small updates here and there

What happens in the planning phase week 1?

- Thursday Jan 23
 - 8-9 lecture/meeting w. product owners (two rooms)
 - Workshop on communication 9 - 11.45
- Individual survey on diversity
 - Reply by Thursday Jan 23 23.59!
- Friday Jan 24
 - Scrum-master meeting 10-11 corner room 4471

What happens in the planning phase week 2?

- Jan 27
 - Morning Team meetings with Lena
 - 13.15-16.30 Group processes and diversity (VASA6)
- Jan 30
 - 8-9.45 Technical meetings w. product owners (two rooms)
- Jan 31
 - 10-11 Scrum-master meeting with Lena

What happens in the planning phase - week 3?

- Feb 3
 - Morning - team meetings w. Lena
 - 13-16 Scrum workshop
- Feb 6
 - 8-9.45 (Technical meeting w product owners
- Feb 7
 - Scrum-master meeting
- **Feb 10** Deadline for team agreement

Break!

2020 Teams

Team M1

Bocheng Jia*
Vidyashree MS
Syed Mutahir
Joshyka Jothi
Singaaravadivelu

Team M2

Shreya Raghunath
Banthi
Athulya Jose*
Gaurav Nattanmai
Ganesh
Candi Wu

Team M3

Ashwin Kumar
Balakrishnan*
John Croft
Prema Manickavasagam
Hezhe Xiao

Team M4

Jayanth Narayanagowda
Divya Sri Rekapalli
Arman Vasei*
Hong Zhou

Team Q1

Haroui Kan
Rickard Laurenus
Sedat Ünacalak
Fredrik Wennerbeck*

Team Q2

Xiao Chen
Gustav Holst
Deepthi Iyyappan
Christoffer Krull*

Team Q3

Naveen Kumar
Balasubramanian*
Adam Stenseke
Panagiotis Strikos
Boyang Zheng

* = initial scrum master (planning phase + sprint 1)