

Minutes of meeting (2025-3) in the Study Board of Build, Energy, Electronics and Mechanics in Esbjerg 02.04.2025

Present:

Matthias Mandø (MMA) (Chair), Daniel Ortiz Arroya (DOA), Jesper Liniger (JEL), Mads Pagh Nielsen (MPN), Christian Winther Dissing (CWD), Ulisse Valeriani, Jeppe Akash Bundsgaard Sørensen, Visnu Ritesh Vijaya-kumaar Palanisamy, Anette Larsen (ALL) (secretary)

Absent:

Copy:

Sara Lindberg Hildebrandt, Charlotte Slot Lolk, Anne Linde Poulsen, Pia Vestergaard Jensen, Christian Winther Dissing, Mads Pagh Nielsen, Tamas Kerekes, Gitte Hageman Christensen, Head of Department, Rikke Steensbæk.

Minute taker: ALL

Agenda

1. Approval of agenda
2. Follow up after last meeting (05.03.2025)
3. Approval of minutes of meeting (05.03.2025)
4. General announcements (short news from the Chairman)
5. Learning goal for EN2 project (with Mads)
6. Minutes from semester group meetings
7. Internship in own startup
8. Drop out reasons and unemployment numbers
9. AOB
10. Credit transfer and exemptions (confidential)

Minutes

1. Approval of agenda

Agenda approved with above changes.

2. Follow up after last meeting (05.03.2025)

Status – new name for APEL

- There has been a discussion with head of department about the title.
- Has been sent to the faculty who will forward to DSUR later this year.

Teacher of the Year, nominating text

- Nomination text received from student members of the study board.
- Study board to inform Zhenyu (ALL)

APEL curriculum, new supplementary text for §7

- A lot of back and forth with this paragraph. Legal department has accepted MMA's proposal where additional requirements are added to the paragraph. Requirements are, however, still the same for the specialisations of each study programme.
- We have applied the legal department for this version to be included in the 2025 study programmes. (both APEL and SEE)

Study Board of Build, Energy, Electronics and Mechanics in Esbjerg

3. Approval of minutes of meeting

Minutes approved without comments.

4. General announcements (short news)

Advisory board meeting (18 March)

- No wish for online RISK education
- Support for RISK and also for 100% AAU RISK.
- Idea - Joint VUC/AAU admission course. We have an upcoming seminar on RISK after takeover from Build. We will a.o. discuss both minor and major changes. RISK must be reduced to 75 ECTS as part of the candidate reform so the major changes will concern the study programmes of 2028. This will only be an initial discussion (all study programmes under the Tech Faculty will be reduced, not Engineering).

Information seminar on study programmes for 4 semester EN+AIE (20 March)

- Thank you to Visnu who presented AIE, due to an error in communications.

Meeting on the development of a new Moodle template (19 March).

- There has been a change so that updates are visible after only one minute which is an improvement. The Moodle team will come to Esbjerg again.

Delayed Students (21 March): List of delayed students ("red and yellow traffic lights") (offers of talk and special help initiatives)

- This is just to let you know that we are doing this. During the spring semester, identification of delayed students must be carried out for students in the 1st year of study (Bachelor of Science/engineering and master's programmes) who are delayed by more than 5 ECTS points.
- MMA, ALL and the study secretaries have reviewed the students at risk of dropping out one at a time. In general, it looks good, as not so many students are late.
- Yellow traffic lights lack 5-15 ECTS and are invited to an interview with the student counsellor, and Red traffic light lacks more than 15 ECTS and is invited to an interview with MMA.
- If we have sent a letter about a failed exam or created an individual study plan, the students will not receive a letter.
- Yellow Esbjerg. 2 students have received a yellow letter with an offer to speak with the student counsellor. Red Esbjerg. 9 students have received a red letter with an offer for a special interview with MMA. In addition, 3 students have been named as recipients of an initiative by the General Student Guidance.
- We manage the rest with individual study plans. ALL files the case in Workzone.

Presentation of electives for 2 semester MSc SEE+APEL (13 March)

Quality status meeting BEEM (11 March)

Prorector's meeting (20 March) A lot about the candidate reform:

- Students starting September 2025 have legal claim to start on Industrial Masters, because the reform must be in force by 2028.

DSUR (25 March, Agenda) The strategic advisory board.

- Minimum criteria for Student work places (room booking and more)
- EVU strategy (continuous education)
- AI strategy (MMA will keep DOA informed)
- Exam forms and AI

DRU (27 March) – new organization of study programmes (the Dean's advisory board)

5 semester study trip (26 March) (this concerns Ulisse and Jeppe)

- There will be a study trip this coming November. There is a nice plan to visit Prague with visits to a brewery, auto factory and nuclear power plant. The Study Board will support the trip with DKK 30,000, but there will also be some student payment of approx. DKK 2,500 per student. There will also be one teacher present.

5. Learning goal for EN2 project (with Mads)

Learning goal for EN2 project

- New learning goal regarding programming was introduced from 2023
- The EN2 students do not have programming until 4th semester
- The learning goal is difficult to interpret
- Dennis suggest the alternative:
 - *Kunne opstille og forstå grundlæggende principper af elektriske kredsløb*
- Furthermore, if we should still have a learning goal towards programming it could be reformulated as:
 - *Kunne forstå grundlæggende principper for syntakser af gængse programmeringssprog, såsom logiske funktioner og løkker*

Learning objectives:

Knowledge

- Have the knowledge and understanding to develop an energy technology product, a machine and/or some components
- Have knowledge and understanding of their functional principles and their use
- Have knowledge of how to draw up requirements and specifications for a product
- Be able to understand basic principles in mechanics, thermodynamics and energy conversion and storage
- **Be able to understand basic principles of syntax of common programming languages**

Skills

- Be able to select, describe and apply relevant technical, scientific and contextual models, theories and methods for analysis, processing and problem solving of the chosen energy engineering issue
- Be able to process the chosen energy engineering problem with the inclusion of relevant contexts and/or perspectives, including ethical ones
- Be able to make a critical assessment of the relevance of the acquired knowledge in relation to the project work, including assessing the suitability of the chosen models, theories and/or methods
- Be able to carry out a methodical and consistent assessment for an energy technology product, technically as well as socially
- Be able to set up simulation models for selected parts of the product
- Be able to carry out practical tests of the product in the laboratory or process relevant data from other experimental work
- Be able to analyse the obtained or used data and compare them with simulated values
- Be able to analyse and develop technical solutions from a sustainability perspective

Competences

- Be able to plan, manage and perspective a project work, including overseeing meeting planning and delegation
- Be able to make a systematic choice of methods for knowledge acquisition in connection with problem analysis and problem processing of an energy engineering problem

AALBO

Mads V Bram participates in this discussion.

The study board agrees on this change to the module:

From

- Be able to understand basic principles of syntax of common programming language

To

- Be able to understand basic principles of electric circuits or data logging

ALL will prepare an application to the legal department to have the module changed in the 2025 study programme.

Follow-up: Application has been sent to the legal department; we await their reply.

6. Minutes from semester group meetings

AIE2

Questions about exam: have a document with exam procedures, etc. then you can always refer to that.

BA2

Comment about library course on 1st semester: a library introduction course, which they also have in the PBL course. MMA has written to PBL teacher, who did not know about the library course.

Comments about English language in Loads and safety (statik og styrkelære). MMA has meeting with teacher. Danish books have been used, but teaching has been in English. Course is over now. Next year it is only Danish students, so problem is solved in the long run.

MT2

There is a wish to replace information seeking in the PBL module with the library intro, which was better. MMA has contacted PBL teacher (also see above).

Loads and safety. Challenges with English language. MMA has meeting with teacher.

EN4

Mechanics. Teacher will come to Esbjerg for a whole day in May.
Next year only Energy will have this course. We must find a local teacher next year to take Sergeys part.
We expect that teacher will read these comments.

AIE4

Nothing to remark.

AIE6

Storage of personal items (project parts). We will put information about lockers on the infoscreens.

BA6

Dynamic and fatigue. No action.

Project management and economics. There is a difference in the assessment (7-point grading scale or passed/not-passed). We will not do anything as this is the last year this course is running.

MA6

Same comments ad BA6 about project management and economics.

They nominate SPE as teacher of the year.

EN6

Comments about Heat Transfer in the previous semester. No action.

Electrical machines. About reexamination. There must be new questions for the oral re-exam. MMA will contact teacher.

Sustainable Energy Systems. This is the last time this course is running. No action.

EN6 – TP6

MMA has talked to teacher: He must use Wacom.

APEL2

Nothing to remark

FPS2

Nothing to remark.

OES2

Fluid Mechanics and Water Wave Dynamics. Students had the questions in advance. MMA agrees there is a lot of content, but it is not unfair.

MatLab. Teachers can refer to AAU Micro.

Other comments on semester group meetings

MMA will be talking to Master Admission to inquire whether they are actually checking the documents as we do not understand why some of these students can be accepted to a Master's degree.

7. Internship in own startup

Webpage about internship in your own startup:

<https://www.students.aau.dk/choices-along-the-way-and-jobs/entrepreneurship-and-innovation/internship-in-your-own-startup>

Department guidelines for project work in an external organisation:

https://www.audxp-cms.aau.dk/media/kt4fzg43/2024-0306_guidelines-for-project-work-in-an-external-organisation.pdf

We have received an inquiry from a student who wants to do his internship in his own startup company.

The department guidelines for project work in an external organisation prevent this.

The study board must discuss our stance on this. If we agree that this is a good idea, we can make an addendum to our guidelines.

Comments:

- If this can be made as a regular project within the learning goals, then it could be a good idea
- About the software: you must distinguish whether it is company related or not.
- The student will sit in a cluster and spar with business people, participate in workshops, etc.
- AAU software must not be used in a commercial way
- Supervision: you must have an experienced supervisor.
- We will prepare an addendum: Internship in your own Startup

Conclusion:

- You do not need an external supervisor, it will be a regular semester project
- You must fulfil your learning goals
- You must respect rules for software
- The business part of the project is something extra for the student to do

ALL to make draft addendum.

8. Drop out reasons and unemployment numbers

Reasons for termination of study

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Row Labels	Column Labels						Total Antal	Total %
	2020	2021	2022	2023	2024			
	Antal %	Antal %	Antal %	Antal %	Antal %			
1a: Det faglige niveau er for højt for mig	0.00%	0.00%	1 7.69%	0.00%	0.00%	1	2.04%	
1b. Arbejdsmængden er for stor for mig	0.00%	0.00%	1 7.69%	0.00%	0.00%	1	2.04%	
1c. Uddannelsens indhold svarede ikke til mine forventninger	3 37.50%	1 12.50%	1 7.69%	2 18.18%	1 11.11%	8	16.33%	
1d. Er ikke interesseret i de jobs uddannelsen fører til	0.00%	0.00%	0.00%	1 9.09%	0.00%	1	2.04%	
1g. Har mistet den faglige interesse for uddannelsen	0.00%	2 25.00%	1 7.69%	4 36.36%	2 22.22%	9	18.37%	
1g. Ønsker en mere praksis-/erhvervsorienteret uddannelse	0.00%	0.00%	1 7.69%	0.00%	0.00%	1	2.04%	
1h. Egne helbredsmaessige årsager	1 12.50%	1 12.50%	1 7.69%	0.00%	1 11.11%	4	8.16%	
1i. Har privatøkonomiske udfordringer	0.00%	0.00%	0.00%	0.00%	1 11.11%	1	2.04%	
1j. Kan ikke forene egen virksomhed/erhvervsarbejde og uddannelse	0.00%	0.00%	1 7.69%	0.00%	0.00%	1	2.04%	
1k. Vil prioritere mulighed for job, elevplads el. lign.	0.00%	0.00%	0.00%	1 9.09%	0.00%	1	2.04%	
1l. Foretrækker anden uddannelse- på Aalborg Universitet	0.00%	0.00%	0.00%	0.00%	1 11.11%	1	2.04%	
1m. Foretrækker anden uddannelse- uden for Aalborg Universitet	0.00%	1 12.50%	0.00%	1 9.09%	0.00%	2	4.08%	
1n. Familiære årsager - børn, nyt job hos partner, sygdom, flytning mm.	2 25.00%	0.00%	2 15.38%	2 18.18%	1 11.11%	7	14.29%	
1q. Uddannelsens studie- og arbejdsform, herunder PBL og gruppearbejde	0.00%	1 12.50%	0.00%	0.00%	0.00%	1	2.04%	
2b. Omstændigheder vedrørende Covid19	0.00%	1 12.50%	0.00%	0.00%	0.00%	1	2.04%	
2c. Anden årsag	2 25.00%	1 12.50%	4 30.77%	0.00%	2 22.22%	9	18.37%	
Grand Total	8 100.00%	8 100.00%	13 100.00%	11 100.00%	9 100.00%	49	100.00%	



- There is no clear reason which makes us want to change anything
- This is a mix of explanations.
- No further action.

Unemployment rates

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Master of Science / Kandidater

Row Labels	2018	2019	2020	2021	2022	2023
Aalborg Universitet Esbjerg						
Fuldførte	67	78	66	33	50	43
LedGrad1	43.8 %	49.5 %	37.5 %	29.1 %	24.9 %	21.0 %
LedGrad2	28.7 %	43.4 %	21.3 %	16.8 %	15.0 %	14.9 %
LedGrad3	21.1 %	34.1 %	16.0 %	6.1 %	10.5 %	9.3 %
LedGrad4	16.6 %	32.9 %	12.7 %	1.2 %	7.4 %	6.5 %
LedGrad5	11.3 %	27.9 %	9.2 %	0.0 %	5.6 %	
LedGrad6	9.5 %	17.8 %	5.9 %	0.0 %	3.6 %	
LedGrad7	8.3 %	14.1 %	5.1 %	0.0 %	1.9 %	
LedGradGns4_7	11.4 %	23.2 %	8.2 %	0.3 %	4.6 %	

Bachelor of Engineering /Diplomingeniører

Row Labels	2018	2019	2020	2021	2022	2023
Aalborg Universitet Esbjerg						
Fuldførte	31	17	31	21	30	24
LedGrad1	11.7 %	11.9 %	28.7 %	16.7 %	20.8 %	4.2 %
LedGrad2	5.6 %	8.8 %	16.5 %	12.8 %	7.4 %	8.0 %
LedGrad3	9.0 %	16.3 %	4.5 %	8.4 %	0.0 %	5.0 %
LedGrad4	5.9 %	13.6 %	0.0 %	6.9 %	0.0 %	0.0 %
LedGrad5	3.4 %	11.1 %	3.9 %	3.6 %	0.0 %	
LedGrad6	6.6 %	7.8 %	0.3 %	0.0 %	2.3 %	
LedGrad7	2.9 %	2.0 %	3.2 %	0.0 %	0.0 %	
LedGradGns4_7	4.7 %	8.6 %	1.9 %	2.6 %	0.6 %	



These are the latest figures we have received. All looking fine.

Drop out rates

ENGINEERING		1. marts 2025	
ENG i alt		Antal	%
Absolut frateld			-7.6%
STUDIENÆVN	ALT ESBJERG	-3	-3.3%
BEEM	AIE	-1	-3.8%
BEEM	EGl	-1	-10.0%
BEEM	BA, dipl.	-1	-11.1%
BEEM	M, dipl.	0	0.0%
Kemi, Miljø og Bioteknologi	KMB, dipl.	0	0.0%
Kemi, Miljø og Bioteknologi	KMB	0	0.0%



8. AOB

Nothing to discuss.

9. Credit transfer and exemptions (confidential)

Survey of list in WorkZone.

Discussion about student applying for extra attempt at Calculus and extra time at actual examination.

Applications granted. With this, we have done everything we can.

Action points, incl. responsible people – Study board meeting 02.04.2025

- Addendum to study board guidelines to project work in external organisation (ALL)