Aalto-yliopisto
Aalto-universitetet
Aalto University

Kemian tekniikan akateeminen komitea
Academic Committee for Chemical Engineering
Pöytäkirja/Minutes
Kokous/Meeting 7/2022
Aika/Time: 29.11.2022 klo/at 13:00
Paikka/Venue: A303
Julkinen

11 Päätösasia/Decision item: Maisteriohjelmien portfoliouudistustyön reunaehdot: ohjelmarakenne / Boundary conditions in the master's programme portfolio renewal: programme structure (Pauliina Ketola)

Perustelut/Justification
Master's Programme in Chemical, Biochemical and Materials Engineering -ohjelman portfoliosuunnittelutyö on painottunut ohjelmiin, jotka perustuvat Kemian tekniikan korkeakoulussa tehtävän tutkimuksen strategisiin painopistealueisiin. Ohjelmiin on aiemmin viitattu termillä klusteri. Suunnittelutyön ohjaamiseksi päätetään suunnittelua sitovista reunaehdoista.

While planning the portfolio renewal regarding the Master's Programme in Chemical, Biochemical and Materials Engineering, the strategic research focus areas of the school have been emphasized in the new programmes. Previously these programmes have been referred as clusters. For further guidance in planning the portfolio renewal, binding boundary conditions must be decided.

Liitteet/Appendices
Korjattu liite/Updated attachment 8 Portfolio renewal - programme structure

Päätösesitys/Decision proposal
Vahvistetaan Koulutusneuvoston esityksen (liite 8) mukaisesti, että portfoliouudistustyön seurauksena perustettavien ohjelmien rakenne muodostuu seuraavasti:

- Koulutusohjelmaopinnot, sisältäen pääaineopinnot: 60-65 opintopistettä
- Opinnäytetyö (diplomityö), mukaan lukien kypsyysnäyte: 30 opintopistettä
- Vapaavalintaiset opinnot: 25-30 opintopistettä

Yllä mainittujen opintokokonaisuuksien yhteislaajuus on 120 opintopistettä.

According to the proposal by the Degree Programme Committee (attachment 8) it will be confirmed that the structure of the degree programmes established as a result of the portfolio renewal is as follows:

- *Core studies of the degree programme, including major studies: 60-65 credits*
- *Master Thesis, including maturity essay: 30 credits*
- *Elective studies: 25-30 credits*

The full extent of the above-mentioned studies is 120 credits.

Kokouskäsittely/Handling of the matter
Anni Rintala esitteli asian Pauliina Ketolan poissaollessa (liite 8).

Anni Rintala presented this item because Pauliina Ketola was absent from the meeting (attachment 8).

Päätös/Decision
Päätettiin esityksen mukaisesti opintopistemäärien reunaehdoista ohjelmarakenteessa. Lisäksi keskustelun pohjalta korjatun esityksen mukaisesti päätettiin, että ohjelmarakenteessa käytetyt sanamuodot korjataan seuraamaan Aalto-yliopiston tutkintorakenteessa käytettyjä sanamuotoja (korjattu liite 8, dia nro 10). / *The motion on the boundary conditions was passed as proposed regarding the credits in the structure of the degree programmes. In addition, based on the discussion, it was decided that the wording used regarding the structure of degree programmes will be changed so that it will follow the wording of Aalto University Degree Regulations (updated attachment 8, slide number 10).*

KTAK 7/22, Korjattu liite/ updated attachment 8

Esitys portfoliouudistustyön reunaehdoksi: ohjelmarakenne

Proposal for boundary condition for Ms Portfolio renewal work: programme structure

Päätösehdotus/Proposal

KTAK/Academic Committee for Chemical Engineering

Aalto University
School of Chemical
Engineering

Pauliina Ketola

29.11.2022 – korjattu/ updated 2.12.2022

Taustaa/Background

Development of the portfolio in four clusters

Cluster leads nominated by the departments

Bioproducts engineering
~~Biomass refining and advanced lignocellulosic materials~~
Cluster lead:
Eero Kontturi

- Biomass refining
- Fiber and Polymer Engineering
- N5P in Polymer Technology (discontinuing)
- Biological and Chemical Engineering for a Sustainable Bioeconomy (Bioceb)

Molecular bioscience and Industrial biotechnology
Cluster lead:
Alexander Frey

- Biotechnology
- Biosystems and Biomaterials engineering

Chemical and metallurgical engineering
~~Chemical engineering and circular processes~~
Cluster lead:
Marjatta Louhi-Kultanen

- Chemical and Process Engineering
- Sustainable Metals Processing
- Industrial Energy Processes (Advanced Energy solutions)
- European Mining, Minerals and Environmental Programme (EMMEP)

Chemistry and materials science
~~Chemistry for renewable energy and functional materials~~
Cluster lead:
Kari Laasonen

- Chemistry
- Functional Materials
- Advanced Materials for Innovation and Sustainability (AMIS)
- Master's Programme in Energy Storage

Cluster leads will lead the discussion and development work in the cluster. Responsibility to take forward development actions and participate in portfolio renewal steering group work.

MSc study offerings:
CHEM own offerings
AALTO Joint offerings
International offerings

- International Design Business Management (IDBM) -> (includes compulsory CHEM minor)
- Creative Sustainability CHEM (connects to research focus area 1 & 3)
- Environomical Pathways for Sustainable Energy Systems (SELECT) -> selected courses from all study fields (discontinuing)

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Alustava aikataulu uudistukselle/ Provisional timeline for renewal

Forthcoming decision items

This year:

- Application target and programme structure discussed and finalised Nov-Dec 22

Early spring:

- Programme names and programme-level ILOs discussed and finalised in Jan-Feb 23 DPC & KTAK
- Programme proposal by Dean to President in Feb-Mar 23

Ohjelmarakenne Aallon tutkintosäännössä/ Programme structure in Aalto Degree Regulations

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Structure guidelines from Aalto University Degree Regulations

Major studies 40-65 cr, of which at least 30 are for advanced studies

Master’s thesis 30 cr

Elective studies or minor 50-25 cr

(if over 30 cr, then minor should be included)

Päätösehdotus:
Uusien ohjelmien ohjelmarakenne
Proposal: Programme structure of new programmes

Aalto University
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School-level programme structure

- **Proposed: Shared structure across Master's programmes in CHEM:**
  - **Studies towards the major: 60-65 credits**
  - **Thesis, including a maturity essay: 30 credits**
  - **Elective studies: 25-30 credits**