
Møtereftrat

Til stede: Gaston Courtade, Olav Vadstein, Berit L. Strand, Anne Feren, Åse Strand, Jørgen Lerfall, Anita Nordeng Jakobsen, Per Bruheim, Helga Ertesvåg, Trygve Brautaset, Atle Hannisdal, Hanne Karlsen, Kari Helgetun Langfoss, Lene Waldenstrøm, Lisbeth Mehli, Simen Tronsaune, Tobias Andre, Jo Esten Hafsmo (referent)

Forfall: Iht e-post

Kopi til:

Gjelder: Faglærermøte IBT

Møtetid: 29.03.17, 14:00 - 15:45 Møtested: Akrinn KA-TBU203

Signatur:

Agenda

O-saker: PhD-programevaluering

1. Emnevaluering
2. Nye forskningsprosjekter
3. Medvirkningsordning

Kommentarer til innkalling: skriv navn fullt ut i innkallingen.

Innkalling og sakliste godkjent.

O-saker

1. PhD-programevaluering: Berit L. Strand presenterte sentrale funn og forslag fra evalueringskomiteen, ref vedlagte presentasjon.

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Saksliste:

1. **Emnevaluering:** Olav leder diskusjonen, Jo presenterer karakterstatistikk. Faglærere i tabellen nedenfor har allerede fått følgende bestilling:

Vi har nå valgt ut 6 høst-emner for gjennomgang i neste faglærermøte. Målet er at alle emner blir gjennomgått i løpet av en 3-års periode. Vi kjører vanlig opplegg med at Jo viser karakterstatistikk og emneansvarlig gjennomgår emnerapporten og tar opp aktuelle problemstillinger i plenum. NB! I kommentarfeltet nedenfor ligger en tilleggsbestilling som vi ønsker at dere tar opp.

Emne	Emneansvarlig	Kommentar
TBT4102 Biokjemi 1 (utsettes til neste møte)	Alex Dykyy	Labkurs er innført i dette emnet, hvordan er dette mottatt av studentene? Emnerapporten er lite konkret på tiltak. Disse ønskes presentert i møte.
TMAT1002 Generell kjemi	Åse Strand	Studentene er svært fornøyde – hva er oppskriften på fornøyde studenter?
TBT4140 Biokjemiteknikk	Per Bruheim	Litt utfordrende studentgruppe – hvordan håndtere dette?
TMAT2002 Ernæring	Anne Feren	Litt utfordrende studentgruppe – hvordan håndtere dette?
BT3110 Aquatic food processing and technology (utsettes til neste møte)	Turid Rustad	1. Nettbasert undervisning – hvordan få dette til på en god måte? 2. Hva er planene for samkjøring med TMMT4002?
TMMT4002 Sjømat – teknologi og prosessering	Jørgen Lerfall	Hva er planene for samkjøring med BT3110?

Det føres ikke referat fra drøftingen rundt de ulike fremleggene.

2. **Nye forskningsprosjekter:** Berit L. Strand, Per Bruheim og Eivind Almaas presenterer respektive Digitalt Liv-forskningsprosjekter (7-10 min hver). Finn sin presentasjon utsettes til neste møte pga møtekonflikt denne gang.

Pga av tidsbruk på sak 1 ble punkt 2 på sakslisten utsatt til nest møte.

3. **Medvirkningsordning:** medvirkningsordning er presentert og diskutert på faglærermøte 3. februar, allmøter 2. og 3. mars samt 10. mars.

Konklusjon: IBT anbefaler bruk av utvidet ledergruppe hvor hver faggruppe minimum er representert med en fast vitenskapelig ansatt. Dette betyr i praksis at dersom ikke alle faggruppene er representert gjennom valg/nestlederrolle så vil kontaktperson for faggruppen inviteres i møtene for utvidet ledergruppe. I tillegg skal utvidet ledergruppe brukes i større grad enn i inneværende periode til strategiske saker ihht mandat/styringsreglement.

EVT

Innspill fra Rahmi Lale; en del masterstudenter mangler en del grunnleggende ferdigheter som kunne vært gjort til et eget, problembasert labkurs; det er ikke relevant å lage et eget kurs i denne omgang, men Rahmi Lale og Turid Rustad lager en momentliste hvor man identifiserer mulige problemer.



Oppfølging PhD evaluering Fakultet for naturvitenskap



External evaluation committee



- **Professor Eva Sørensen (Chair)** Deputy Head (Education) and Professor of Chemical Engineering, Department of Chemical Engineering, University College London (UCL), UK. Member of UCL's Education Committee and UCL's Quality Review Sub-Committee.
- **Professor Malin Celander** Professor of Zoophysiology, Department of Biological and Environmental Sciences, University of Gothenburg, Sweden. Head of PhD studies at Department of Biological and Environmental Sciences and member of the PhD education board at the Faculty of Science, University of Gothenburg.
- **Professor Remko Boom** Group chair and Professor of Food Process Engineering, Department of Agrotechnology and Food Sciences, Wageningen University & Research, Wageningen, The Netherlands and former director of the Dutch Graduate School in Food, Nutrition and Biomolecular Sciences, VLAG.
- **Professor Mathias Kläui** Director Graduate School of Excellence Materials Science in Mainz, Director Gutenberg Council for Young Researchers, Professor of Physics, Institute of Physics, Johannes Gutenberg University Mainz, Mainz, Germany

PhD evaluation report



- Executive summary
- Academic quality
- The scientific staff and their role as supervisors
- The PhD training
- Learning objectives
- Cooperation with international scientific community
- Organisation and administrative handling of the PhD studies
- Other points

Executive summary



- Overall academic quality of the PhD programmes and the PhD education is of a good international standard, producing PhD graduates with a strong grasp of fundamentals and of the various aspects related to research at an international level.
- The committee has suggested room for improvements through several aspects of the PhD programmes and Educations - **More systematic and organized approach**

Academic quality



- General impression that the academic quality of PhD programmes is of good international level
- Most groups/departments attracts excellent PhD candidates

Scope for improvements:

- *Move away from individualistic approach to research and PhD education – synergy and consolidation*
- *A more strategic approach to external advisory board (academic, industry)*

Research and training environment



- Generally good, excellent national/international requirement, excellent infrastructure, external funding particularly in areas of industrial relevance

Scope for improvements:

- *Large variation in the ability to attract external funding – sharing of best practise*
- *Focus on international funding (Horizon 2020) in addition to national funding agencies*
- *Cross disciplinary collaboration across research groups/departments/faculties – co-supervision*
- *Strengthen the international training environments – i.e. ITN Horizon 2020, Nordic 5Tech, ...*
- *Continue to strengthen focus on research ethics*

The scientific staff – role as supervisors



- In general the staff is committed to the role as supervisors and follow up their candidates both scientifically and pastorally

Scope for improvements:

- *Mandatory training of supervisors – also the experienced*
- *More focus on ethics and scientific integrity – structural approach to the scientific staff*
- *Establish best practise across the faculty in ensuring that the supervision of PhD candidates is shared more equitably*

PhD training



- Relevant courses of high quality and course portfolio allows flexibility
- Acknowledge the establishment of MN8000

Scope for improvements:

- *Revise and strengthen the course portfolio*
 - *Generally a low attendance of courses given only every second year*
 - *Team up with national/international partners – particularly to contribute to internationalization of the learning environments*
 - *Move towards courses giving a broader perspective and understanding*
 - *Strengthen the councils responsibility to develop the portfolio on the expense of the responsibility of individual staff/research group*
- *Compulsory teaching training for candidates with teaching duties*
- *Organized approach for career path tracking*

Learning objectives



- In most case in line with international standards

Scope for improvements:

- *Create a wider academic perspective in the training programme*
- *Strengthen outreach activates and entrepreneurship – a structural approach*

Cooperation with international community



- In most cases PhD candidates involved a part of an international community
- Good support for attendance at international conferences but not for longer research visits

Scope for improvements:

- *Sharing good practice for internationalization among research groups and departments*
- *Longer research stays for a larger fraction of the PhD candidates*
- *Take advantage of academic training in an international setting*

Organization and administrative handling



- Generally good, but there are differences and particular with respect to training duties among native and foreign candidates

Scope for improvements:

- *More systematic approach to recruitment, language tests*
- *More systematic approach to ensure equal follow-up across the programmes*
 - *Ensure consistency with respect to annual appraisal interview*
 - *Ensure that all PhD candidates receive a “fadder”*
 - *Ensure the involvement and a clear role of co-supervisors*
 - *Structural approach to career development*
 - *Oral examination after 12-18 month (half way evaluation)*

Quality assessment of PhD studies



- Acknowledgement of the value of international opponents, annual quality reporting and dialogue meetings councils/departments and deanery

Scope for improvements:

- *Introduce and formalize half way quality examinations*
- *Higher focus on international publishing in high impact journals to develop competitive publication records*

Other points



- Funding situation generally very good compared to other countries in Europe
- Extensive external funding gives opportunities for strategic initiatives
- PhD candidates is given the opportunity to get involved in governance of PhD programmes and education

Scope for improvements:

- *System for data security and management*
- *Systematic approach to IPR management*
- *Take advantage of literature and recommendation from research and innovation in Graduate Education*
- *Better organization and communication in student involvement in councils and other fora*

Follow-up (to be discussed in FU 30/3)



In the follow-up of the evaluation the *actors* with clear responsibilities with respect to the implementation of the recommendations are

- NTNU
- Faculty/Departments through Dean and heads of department
- The research committee
- The program councils

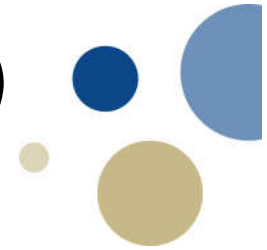
Follow-up (to be discussed in FU 30/3)



NTNU

- Establish institutional standards and better procedures for data storage and management
- Provide fundamental teaching training and support for PhD candidates with teaching duties as a part of their contract

Follow-up (to be discussed in FU 30/3)



Faculty/departments

- Organize mandatory training of supervisor and co-supervisor including experienced supervisors.
- Secure that appraisal interviews of PhD candidates are taking place annually and that they are conducted in a consistent manner.
- Promote best practice among research groups/departments and continue to work to move away from individualistic approach to research and PhD education
- Increased consolidation of research areas and groups
- Strengthen international funding of research involving PhD education
- Ensure more systematic approach to recruitment of PhD students

Follow-up (to be discussed in FU 30/3)



Research committee

- Continue the work to strengthen and further develop MN8000 as a tool increase the awareness of scientific integrity and ethical conduct
- Establish a mandatory seminar in outreach/popular dissemination for all PhD candidates
- Establish a mandatory seminar in IP handling and entrepreneurship
- Create consistent career tracking of PhD graduates and to foster Alumni work
- Ensure consistency with respect to PhD education within all PhD programs

Follow-up (to be discussed in FU 30/3)



The program councils

- Revise and strengthen the course portfolio with the aim to broaden the perspective and understanding and increase international (national) collaboration
- Introduce mandatory half way evaluation / PhD hearing
- Establish external (international and industrial) advisory board
- Ensure internationalization of the PhD education including courses and longer research stay abroad