Thesis proposals

Implementation and Performance Management

15\textsuperscript{th} January 2018

*Management Science*

*DTU Management Engineering*
Writing your thesis within Implementation and Performance Management

Welcome to the presentation of thesis proposals offered within the Implementation and Performance Management group at the department of Management Engineering! With this booklet we hope to inspire you to select an intriguing topic for your coming thesis work.

The booklet can serve as inspiration for MSc, BSc and BEng students.

Some thesis projects are carried out internally at DTU whereas others are performed in close collaboration with external organisations. In addition to the proposals listed in this booklet, you are welcome to suggest your own ideas for a project topic – but remember to look at your supervisors’ research areas and interests! If you suggest your own project idea, moreover, you need to consult a supervisor to scope the project so that it is academically sound, relevant and ambitious but also realistic to achieve within the project period. You should also check with the potential supervisor(s) whether you have the relevant prerequisites for carrying the specific thesis topic.

The following list of faculty member are potential supervisors for 2018;

- Kasper Edwards, Senior Researcher (kaed@dtu.dk)
- Christine Ipsen, Associate Professor (chip@dtu.dk)
- Per Anker Jensen, Associate Professor (pank@dtu.dk)
- Signe Poulsen, Assistant Professor (sipo@dtu.dk) – available only in Spring 2018
- Rikke Seim, Associate Professor (seim@dtu.dk)

We look forward to meeting you as a thesis student in Implementation and Performance Management!
Kasper Edwards (kaed@dtu.dk)

Position:
Senior Researcher, Implementation and performance management

Research Area:
- Performance management, leadership and well-being at work
- Change management
- Lean management and organizational performance improvement
- Innovation management
- Process mapping and design

Teaching:
42490 TEMO

Project ideas
- Leadership in open source software development
- Analyzing patient care paths based on hospital register data to identify problems and develop solution
- Social capital and performance management
- Innovation management in SME’s
Christine Ipsen (chip@dtu.dk)

Position:
Associate Professor, Implementation and performance management

Research Area:
- Implementation processes and challenges in knowledge work
- Distance management and digitalized knowledge work
- Preventive interventions and development of preventive programs
- Knowledge sharing
- Organisational development and management
- Psycho-social work environment

Teaching:
42490 TEMO
42373 Implementation and Performance Management

Project ideas
- Sustainable management – balancing performance and well-being in knowledge work
- Digitalized knowledge work – use of Telepresence Robots
- Improving knowledge sharing in knowledge work
- Implementing preventive changes – process and outcomes
Per Anker Jensen (pank@dtu.dk)

Position:
Associate Professor, Implementation and performance management

Research Area:
– Core: Facilities Management, Real Estate Management, Strategic Planning, Space Management, IT, Risk Management, Building Briefing, User involvement, Building Renovation, Sustainable Buildings
– Other: Construction Management, Project Management

Teaching:
42259 Facilities Management

Project ideas
Master projects can be related to ongoing PhD projects:

• Helle Lohmann Rasmussen: Integrating operational knowledge in design and construction of energy efficient facilities. Started December 2016.
• Esmir Maslesa: Dynamic optimization of building performance. Started February 2016. Industrial PhD with KMD.

Proposals from Jakob Brinkø Berg, PhD student (jajoh@dtu.dk), related to Construction Management:

• Strategic collaboration – the role of the consulting engineer in a new paradigm.
  • Study of how the change from a fragmented work process to an integrated work flow changes the role of the consulting engineer.
• Building the business in construction.
  • Understanding how contractors make a business and stay competitive in a changing building industry.
• Working together to create sustainable construction solutions.
  • Examining how strategic collaboration between the different companies in the construction industry, can support the creation of sustainable construction solutions.

Proposals from Poul Ebbesen, Rambøll (contact through Per Anker Jensen), related to IT and FM:

• Organising classification and coding of models aimed for use in FM systems
• Resources spent on implementing IT in FM
• Added value when implementing IT in FM
• Criteria for assessing the suitability / usability of FM systems
- Types of technologies and information systems used in FM
- New business models as a consequence of the diffusion of sensors, IoT and algorithms in FM
- Sensor data used in BIM as a driver for implementing BIM in FM
- Project management and organisation of IT implementation in FM
- Phases used when implementing IT in FM
- Facilitating transfer of data to FM systems
- IT strategies in FM

Proposal from Susanne Balslev Nielsen, Center for Ejendomme, Region Hovedstaden (contact through Per Anker Jensen):

Signe Poulsen (sipo@dtu.dk) – available only in Spring 2018

Position:
Assistant Professor, Implementation and performance management

Research Area:
- Preventive measures/initiatives
- Employee satisfaction surveys
- Sustainable management

Teaching:
42421/42922 Management and Organization (Bsc course)
42373 Implementation and Performance Management

Project ideas
- Investigate which preventive initiatives are initiated based on employee satisfaction surveys.
  The project should investigate how different managers work with employee satisfaction surveys, and how the managers find relevant initiatives based on the employee satisfaction survey. The student(s) is required to find companies that have made an employee satisfaction survey in the fall. Depending on the data, the project could include theories of different types of management, if there is a strong focus on how the managers acts (and interacts)
Rikke Seim (seim@dtu.dk)

**Position:**
Associate Professor, Implementation and performance management

**Research Area:**
- Work environment
- Workspace Design
- Control, management and design of production systems
- Employee involvement
- Intervention studies
- Change management
- Human resources

**Teaching:**
42421/42922 Management and Organization (Bsc course)