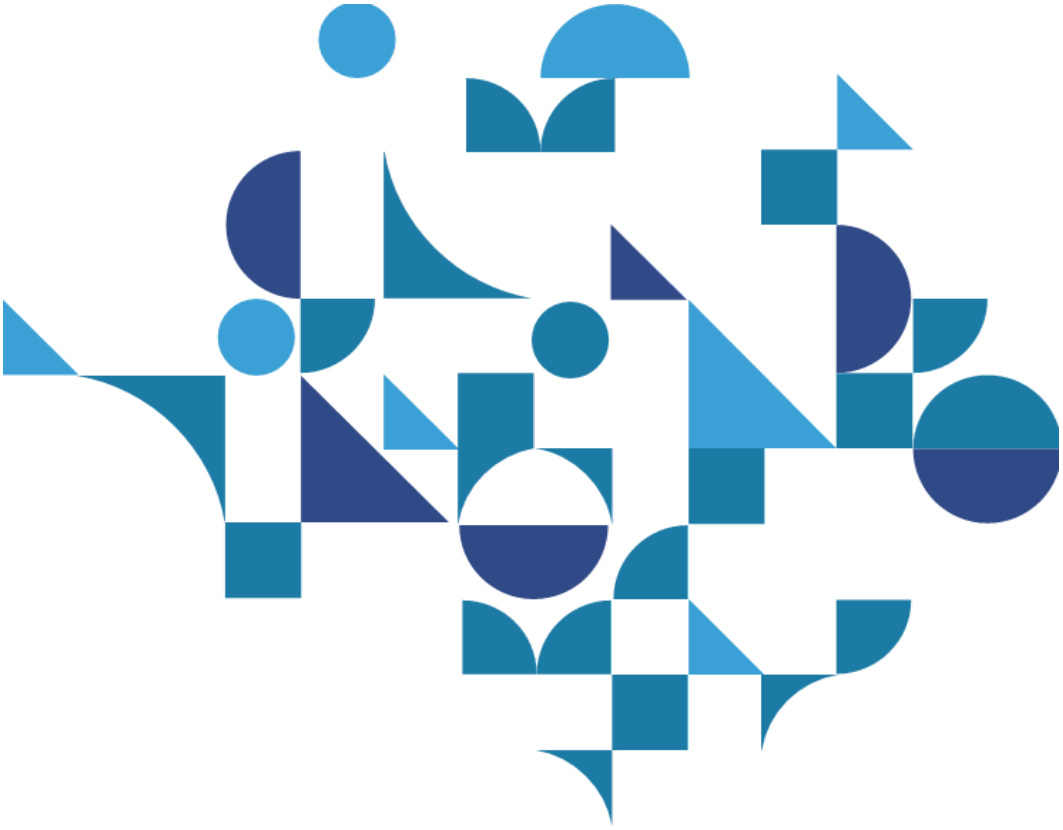
Industrial Engineering and Management of European Higher Education



IE3 Course Action Plan

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Action Plan WP3

During the Coordination meeting on 9 December 2020, it was decided which course module(s) each academic partner in the IE3 project would target for revision in line with the BoK within the frame of WP3. Two partners have proposed one course module to be revised while two partners will revise two or more course modules. In some cases, the complete course module will be revised, in others just a part of the course module. Since in this WP there are four academic partners involved located in four different countries with learning environments that are, following academic traditions, very differentiated, the local legislation and local restrictions must be respected. Because of this it is not possible to launch an action plan that is meant to be followed by each partner in the exactly same manner.

Since each course module selected to be revised is part of a MSc programme in IE3 that is up running or will be introduced in an up running MSc programme, there are time frames that must be respected. Each revised module must be integrated into a running programme and be followed by the regular students enrolled into this programme. The schedule for the programme is given by the local managerial system why a revised course module might be launched and tested either during the first quarter 2021, the second quarter 2021, the third quarter 2021 or the fourth quarter 2021. Ideally from the project's perspective would be the second and the third quarter 2021, but it is up to each partner to arrange this.

By respecting the local schedule for each revised course module to be launched, run, and tested we will find a variety of starting and completion dates among the partners during 2021. Therefore, it is not possible to specify distinct dates to be met by all partners at the same time. Instead, each partner will be given action dates related to the local running of the revised module.

An Action Plan can be designed in different ways but for WP3 with its configuration each partner must, related to the local conditions, set up a report for each course module to be revised in which the following issues must be discussed:

- **Existing Course Module to be Revised**
  - Present the existing course module in detail
  - Present why this course module must be revised
- **Revision related to BoK**
  - Make a clear reference to which the outcome(s) in the BoK your revision is based
  - Describe your route from BoK to the revised course module
- **Revised Course Module**
  - Present the revised course module in detail with distinct learning outcomes and contents as well as aims and assessment modes
  - Explain why the revised course module would better match future requirements on IE3 graduates as defined by Industry 4.0
  - What kind of learning materials will be used in the revised module?

  - Will updated learning materials be available on the market or is it necessary to write or develop new learning materials? Is there a specific textbook that will be used?
- **Implementation of the revised course module**
  - Specify what media to be used when running the pilot course – PPs, videos, computer animations, simulation tools, etc.
  - Present how these tools will be developed or adjusted to meet the content of the revised course
  - Specify hour by hour the content and running mode (lecture, seminar, lab etc) of the revised course module adding up to the defined number of ECTS.
  - Could any problems be foreseen when the revised course module is implemented?
  - Since each partner will review different course modules in different subject areas in the local learning environment only generic frames can be given for this job and local restrictions and local legislation must be respected
- **Involvement of Industrial Partners**
  - Specify how and to what extent the domestic industrial project partner(s) will be involved in the development phase and how much they will be involved in the running of the revised course module
- **Evaluation by the students who have followed the revised module**
  - Will the revised course module be possible to evaluate by the students using the ordinary local course evaluation system?
  - If necessary, will it be possible to design an evaluation programme especially for the revised course module?
  - It is decided that the student evaluation will be performed following the local system for course evaluation. This means that the outcomes only can be compared within the local course domain and no global comparison is possible. Will this hamper the project's interpretation of the local outcomes?

The final report describing the outcomes of the requested issues above must be handed in to the IE3 Headquarters and the WP3 management **not later than 4 weeks** after the running of the revised course module has been completed and a preliminary report containing the outcomes of the first four bullet points **not later than 3 weeks** before the launching of the module.

Action Dates to be Respected by Each Partner when the Revised Course Module is Running

- A detailed curriculum for the revised course module must be presented to the students and the WP3 management **at least 6 weeks** before the course module will commence
- A list of textbooks and course materials to be used in the revised module must be presented to the students and the WP3 management **at least 3 weeks** before the course module will commence

- A very detailed course information with all details, schedule, content of each lecture, seminar, lab etc. must be presented to the students and the WP3 management **at least 1 week** before the revised course module will commence
- The result of the student evaluation of the course module must be handed over to the WP3 management **not later than 4 weeks** after the revised course module is completed.

All these action documents must be included into the final report of the realisation of WP3 to the IE3 Headquarters and the WP3 management not later than 4 weeks after WP3 has been completed by each academic partner. Remember that this WP is a joint venture between the academic and the industrial partners in each country.

In the following pages of this document, you will find the template for the slides to be used in the creation of the course modules. This template is designed to provide a consistent and professional look for the training materials, and can be easily customized to meet the needs of partners' specific audience.

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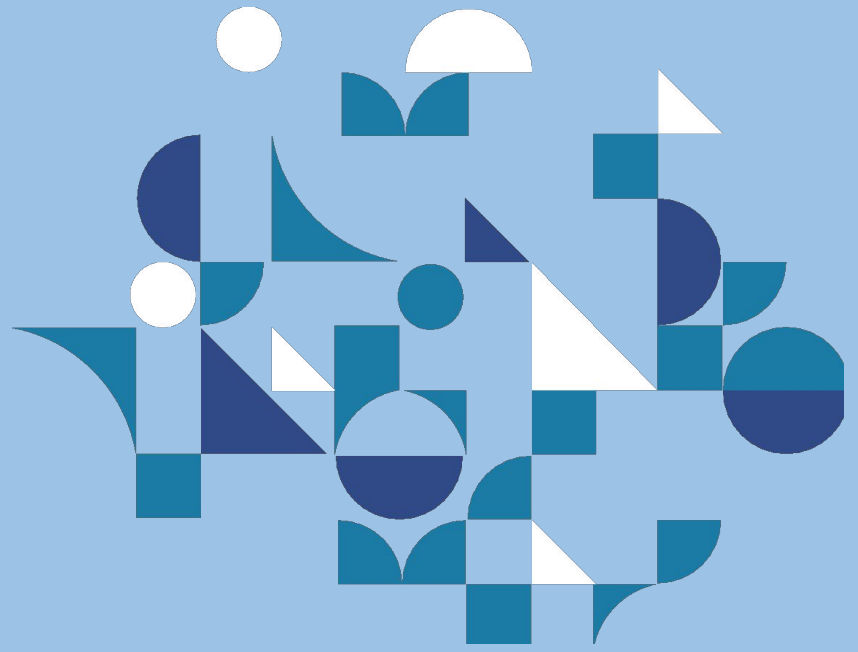
Name of the course

module n.



Professor …
Affiliation

Training material

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Authorship

The whole course is a result of the cooperation among the IE3' consortium.

This module comes from the particular work carried out by:

- Poliba
- UPM
- …

Index

- Introduction
- Duration of the course
- Method to take the exam
- Useful links (such as platform to download the material, YouTube etc.)
- Contacts
- Other

Introduction

The Industrial Engineering is a subject covering multiple topics:

- …
- …

TITLE title

Section Title

Thank you!

Contact of the lecturer(s)