

## Implementation plan Finished

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| <b>Study unit</b>                                             | Data Networks in Operation (01118), 10.0                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Implementation</b>                                         | NIA1021: 2/2010-2011 (03.01.2011 - 17.06.2011)                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Type</b>                                                   | INITIATION OF PROFESSIONAL GROWTH (A029)                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Groups</b>                                                 | Primary: NIA10SN Others :                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Involved in the project</b>                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Lecturers</b>                                              | Jouni Takala, Riku Salmenkylä, Seppo Koponen                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Number of participants</b>                                 | <b>Minimum:</b> <b>Maximum:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Enrolment period</b>                                       | 29.11.2010 08:00 - 05.12.2010                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Main timing for implementation</b>                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Applicability</b>                                          | <b>For exchange students:</b> Yes <b>For elective studies:</b> No <b>Open UAS student:</b> Yes <b>Suitable for virtual UAS:</b> No                                                                                                                                                                                                                                                                                                                               |
| <b>Teachers</b>                                               | Takala Jouni (Teacher in charge), Koponen Seppo (Other teacher)                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Campus</b>                                                 | Laurea Leppävaara                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Main location for implementation</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Implementation method</b>                                  | Optima realization/student group, Other method of implementation, Project/venture/R&D <b>Language:</b> English <b>Virtuality:</b> 0 cr <b>Integration of R&amp;D:</b> 5 cr                                                                                                                                                                                                                                                                                       |
| <b>Implementation class</b>                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Focus areas</b>                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Evaluation at the latest</b>                               | 17.07.2011 <b>Storing of graded material ends.:</b> 31.07.2012                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Exam days</b>                                              | <b>Real:</b> ilmoitetaan Optimassa <b>Re-exams:</b> 10.06.2010, 14.10.2010                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Having completed the study unit the student is able to</b> | # build or expand data networks according to plan<br># understand the methods for connecting networks to other networks<br># make use of the benefits of network management systems<br># describe the opportunities and threats brought by emerging technologies<br># solve problems related to building, expanding, managing and maintaining networks, independently and in groups<br># work in an interdisciplinary development project as a networks designer |
| <b>Previous studies</b>                                       | Data Networks                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Previous studies, more information</b>                     | 01117 Data networks                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Learning objectives</b>                                    | TBD                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Contents</b>                                               | TBD, developing deeper understanding of the concepts in 01117 and the practical usage and applications of data networks, including a small network related project.                                                                                                                                                                                                                                                                                              |
| <b>Study material</b>                                         | Course material will be informed on first lecture                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Tutoring and communication</b>                             | Optima will be the communication platform.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Evaluation criteria and methods</b>                        | The evaluation of the course consists of: Project work 50% Exam 30 % Lab work and general activity 20%                                                                                                                                                                                                                                                                                                                                                           |
| <b>Project (name)</b>                                         | Project topics will be announced in the beginning of the course. Students can suggest their own topics as well.                                                                                                                                                                                                                                                                                                                                                  |
| <b>R&amp;D methods</b>                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Work strain</b>                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Other arrangements</b>                                     | The exact date and time of the first lecture will be announced later. The structure will be                                                                                                                                                                                                                                                                                                                                                                      |

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|  | quite similar to 01117, ie. half a day for theory and half a day for practical lab/project work. |
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### Learning events

| Date       | o'clock/at h | Subject             | Content                                                                               | Status | Teachers |
|------------|--------------|---------------------|---------------------------------------------------------------------------------------|--------|----------|
| 14.01.2010 | 09:00-11:30  | Course presentation | - Course presentation, contents- Project work instructions, project group assignments |        |          |