

## Implementation plan Finished

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Study unit                                             | Data Networks in Operation (01118), 10.0                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Implementation                                         | NIA0921: 2/2009-2010 (04.01.2010 - 18.06.2010)                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Type                                                   | ICT NETWORK (0328)                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Groups                                                 | Primary: NIA09SN Others :                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Involved in the project                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Lecturers                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Number of participants                                 | <b>Minimum:</b> <b>Maximum:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Enrolment period                                       | 30.11.2009 08:00 - 06.12.2009                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Main timing for implementation                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Applicability                                          | <b>For exchange students:</b> Yes <b>For elective studies:</b> No <b>Open UAS student:</b> No <b>Suitable for virtual UAS:</b> No                                                                                                                                                                                                                                                                                                                                |
| Teachers                                               | Takala Jouni (Teacher in charge), Koponen Seppo (Other teacher), Laurea Leppävaara, tiko tl-labra assarit (Other teacher)                                                                                                                                                                                                                                                                                                                                        |
| Campus                                                 | Laurea Leppävaara                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Main location for implementation                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Implementation method                                  | 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                                                                                                                                                                                                                                                                                                                         |
| Implementation class                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Focus areas                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Evaluation at the latest                               | 31.08.2010 <b>Storing of graded material ends.:</b> 31.07.2011                                                                                                                                                                                                                                                                                                                                                                                                   |
| Exam days                                              | <b>Real:</b> 12.5.2010 <b>Re-exams:</b> 10.06.2010, 14.10.2010                                                                                                                                                                                                                                                                                                                                                                                                   |
| Having completed the study unit the student is able to | # 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 |
| Previous studies                                       | Data Networks                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Generic competences                                    | globalisaatio-osaamisen kuvaus                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Previous studies, more information                     | 01117 Data networks                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Contents                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Study material                                         | Course material will be informed on first lecture                                                                                                                                                                                                                                                                                                                                                                                                                |
| Evaluation criteria and methods                        | The evaluation of the course consists of: Project work 50% Exam 30 % Lab work and general activity 20%                                                                                                                                                                                                                                                                                                                                                           |
| Other arrangements                                     | NOTE: First lecture is on Wed 13.1.2010 at 12:30!                                                                                                                                                                                                                                                                                                                                                                                                                |

## Learning events

| Date       | o'clock/at h | Subject | Content             | Status                                                                                | Teachers      |
|------------|--------------|---------|---------------------|---------------------------------------------------------------------------------------|---------------|
| 13.01.2010 | 12:30        | 3       | Course presentation | - Course presentation, contents- Project work instructions, project group assignments | Seppo Koponen |