THE VOCATIONAL CHALLENGE OF HIGHER EDUCATION IN FINLAND

DEVELOPING A VIRTUAL POLYTECHNIC

PAIVI KRISTINA KARKKAINEN, M.Sc
EDUCATIONAL PLANNER
SOUTH CARELIA POLYTECHNIC
E-MAIL:
paivi.karkkainen@mail scp.fi
paivikarkkainen@iobox.com

LAPPEENRANTA
FINLAND
THE FINNISH REFORM OF HIGHER VOCATIONAL EDUCATION TOOK PLACE DURING THE ECONOMICAL RECESSION PERIOD AND FAST DEVELOPING HIGH-TECH YEARS OF 1990´S.

THE DEVELOPMENT OF POLYTECHNICS IN FINLAND STARTED IN 1992, WHILE OUR HIGHER VOCATIONAL EDUCATIONAL SYSTEM WAS PREPARED FOR JOINING THE EU IN 1995. NOWADAYS WE HAVE 32 POLYTECHNICS ALL OVER THE COUNTRY SERVING THE REGIONAL AS WELL AS INTERNATIONAL NEEDS OF INNOVATIVE WORKING LIFE.

THE RECESSION YEARS OF 1990´S AND RAPIDLY CHANGING AND FASTLY DEVELOPING WORKING ENVIRONMENTS MADE AN ENORMOUS CHALLENGE FOR PUBLICLY FINANCED POLYTECHNICS.

TO KEEP UP WITH THE DEVELOPMENT OF WORKING ENVIRONMENTS OF PRIVATE ENTERPRISES AT REGIONAL, NATIONAL AND INTERNATIONAL LEVELS, NOT ONLY IN THE FIELDS OF BUSINESS AND TECHNOLOGY, BUT IN CRAFTS AND DESIGN, TOURISM AND HEALTH CARE AS WELL.
DIGITAL LIBRARY AND WIRELESS FUTURE:
- THE AIM OF HIGHER VOCATIONAL EDUCATION IS TO REACH TO THE FUTURE,
  HIGH-TECH COMPANIES ARE MAKING THIS CHALLENGING EVEN NOW

1) EDUCATIONAL MATERIAL

2) THESIS

REFERENCES
HTTP://WWW.WIRELESSFUTURE.NOKIA.COM
HTTP://WWW.EMBLAZE.COM
HERE ARE SOME SOLUTIONS PLANNED FOR A FINNISH POLYTECHNIC TO INNOVATE ALSO THE REGIONAL DEVELOPMENT
DEVELOPMENT OF VIRTUAL POLYTECHNIC:
INTRANET AND RUSSIAN TRADE AND CONSTRUCTION PROGRAMME

SOFTWARE TOOLS USED BY FINNISH POLYTECHNICS FOR THE DESIGN AND PRODUCTION OF DIGITAL LEARNING MATERIALS:
1. ProTo- Project Tools for Learning
2. TELSiPro
3. Lotus Learning Space
4. WebCT
5. WebBoard
6. FLE-Future Learning Environment
7. Thule - The Universal Learning Environment
8. FirstClass
9. TopClass
10. Virtual-U
11. IntraLearn
12. Own programmes

COORDINATION NETWORK DEVELOPMENT BETWEEN LECTURE'S HOMECOMPUTERS AND POLYTECHNIC FOR TUTORING, DESIGN AND PRODUCTION OF DIGITAL LEARNING MATERIALS AND E-MAIL INFORMATION:

STUDENT'S SERVICES: CREDITS, EXAMINATION DATES, OTHER SERVICES

ADMINISTRATION: REGISTRATION, DEGREES ETC.

NETWORK DEVELOPMENT BETWEEN LECTURE'S HOMECOMPUTERS AND POLYTECHNIC FOR TUTORING, DESIGN AND PRODUCTION OF DIGITAL LEARNING MATERIALS AND E-MAIL INFORMATION:

FOR THE DESIGN AND PRODUCTION OF DIGITAL LEARNING MATERIALS:
STANDARDIZED PROGRAMMES BETWEEN THE POLYTECHNICS LOCATED IN EASTERN FINLAND

WEB-MASTER AS DEVELOPER OF INTRANET AND EXTRANET NETWORKS

INFORMATION CENTRE
INFORMATION SPECIALIST
DOCUMENT STORAGE
GUIDANCE OF DIGITAL LEARNING MATERIALS AND OPEN LEARNING ENVIRONMENTS
VOCATIONAL SUBJECTS AND THEIR HYPERLINKS
DEVELOPMENT OF VIRTUAL POLYTECHNIC:
TELETEAMS FOR MULTILINGUAL INFORMATION SOCIETY
PRODUCTION OF DIGITAL LEARNING MATERIAL
FOR VOCATIONAL SUBJECTS

- PAIVI KARKKAINEN, M.Sc.
  EDUCAUTIONAL PLANNER
  e-mail: paivi.karkkainen@mail.scp.fi
  paivikarkkainen@iobox.com

LECTURER IN
VOCAUTIONAL SUBJECTS

LANGUAGE TEACHER IN
RUSSIA AND TRANSLATOR

LANGUAGE TEACHER IN
ENGLISH, GERMANY, FRENCH
AND SPANISH & 6 TRANSLATOR

NETWORK PEDAGOGY

INFORMATION SPECIALIST

TECHNICAL ASSISTANT
& GRAPHIC DESIGNER

PRODUCTION OF DIGITAL LEARNING MATERIAL WITH OPEN
LEARNING ENVIRONMENTS PORTFOLIO DESIGN FOR STUDENTS,
DESIGNING AND IMPLEMENTATING INTERNATIONAL PROJECTS

INTEGRATING FOREIGN LANGUAGE TEACHING WITH
VOCATIONAL SUBJECTS DESIGNING AND IMPLEMENTING INTERNATIONAL PROJECTS WITH CO-OPERATIVE INSTITUTES AND
ORGANIZATION VIA INTERNET OR TELEMATIC MEETINGS

INTEGRATING FOREIGN LANGUAGE TEACHING WITH
VOCATIONAL SUBJECTS BY NEWEST LANGUAGE TEACHING METHODS
ELABORATION, SCHEMAS, NEURO LINGUISTIC PROGRAMME ETC.
PORTFOLIO DESIGN FOR STUDENTS

LECTURER’S SUPPORTER AND INSTRUCTOR
SUPPORTER AND INSTRUCTOR FOR NETWORK TUTORING

LECTURER’S INSTRUCTOR FOR NETWORK USE IN VOCATIONAL SUBJECTS
HYPERLINK AND URL-ADDRESS SEARCH FOR VOCATIONAL SUBJECTS
SCHEMA REGISTRATING AND KEEPING OF DIGITAL
DOCUMENT STORAGE WITH METADATA

TECHNICAL ASSISTING, DIGITAL GRAPHIC PRODUCTION,
VISUAL AND VOCAL INSTRUCTION IN THE PRODUCTION OF DIGITAL
LEARNING MATERIALS, ASSISTANCE IN TELEMATIC OPERATIONS AND
NETWORK/ VIDEOMEETINGS
DEVELOPMENT OF VIRTUAL POLYTECHNIC

DEVELOPMENT OF INSTITUTIONAL READINESS
PERSONNEL TRAINING
PRINCIPALS AS WELL AS ADMINISTRATORS

ORGANIZING DISTANCE EDUCATION
STUDENT AND DIGITAL LEARNING DOCUMENT / MATERIAL

TRAINING OF LECTURES
DESIGN AND PRODUCTION OF DIGITAL LEARNING MATERIAL FOR A LECTURER’S OWN COURSE

INFORMATION CENTRE
LIBRARY, DATA CENTRE
STAFF TRAINING
DEVELOPMENT OF COMPUTER AND NETWORK ENVIRONMENT

SUPPORTING SYSTEM FOR A STUDENT
1. TUTORING
2. HOMEWORKS
3. EVALUATION SYSTEM FOR A DISTANCE LEARNING AND A FEEDBACK SYSTEM
5. National Digital Library for the Universities and Polytechnics in Finland

4. Digital Library of Polytechnics in Eastern Finland as Part of Development of Virtual Polytechnic

3. Regional Digital Library of South Carelia Finland

2. Digital Library for Higher Education in South Carelia University + Polytechnic

1. South Carelia Polytech
REFERENCE:

- UNIVERSITY OF HELSINKI, ELECTRONIC PUBLISHING. PROJECT PLAN 1998.
- HTTP://HUL.HELSINKI.FI/TILKE/EJULK.HTML
- HTTP://WWW.DBI-BERLIN.DE/PROJEKTE/EINZPROJ/META/META00.HTML
- HTTP://WWW.SCHEMAS-FORUM.ORG/WORKSHOPS
- HTTP://WWW.WIRELESSFUTURE.NOKIA.COM

INTERVIEWS:

- MINISTRY OF EDUCATION, POLYTECHNICS: MR. JUHA ARHINMÄKI
- LAPPEN RANTA UNIVERSITY OF TECHNOLOGY WWW.LUT.FI: MS. ULLA OHVO
- SOUTH CARELIA POLYTECHNIC WWW.SCP.FI: MARJA HUUHTANEN