



VAASAN AMMATTIKORKEAKOULU

Petri Markus Pekkarinen, 080180-1415

on suorittanut tänään

LIIKETALouden AMMATTIKORKEAKOULUTUTKINNON

koulutusohjelmassa

TIETOJENKÄSITTELY

liitteessä mainituin opintosuorituksin.
Hänellä on oikeus käyttää tutkintonimikettä

TRADENOMI.

Vaasassa 17. joulukuuta 2004


Rehtori Jouko Paaso


Toimialajohtaja Elisabeth Malka

17.12.2004

Opiskelija **0000745 Pekkarinen Petri Markus** **080180-1415**

Ohjelma **Tietojenkäsittely** **140 ov**

Suunta **Digitaaliset yrityspalvelut**

Suoritettu **145 ov**

<u>Suoritettu kokonaisuus</u>	<u>Laajuus</u>	<u>Arviointi</u>	
PERUSOPINNOT	70 ov		
Yleiset perusopinnot	32 ov		
Perehdyttävät opinnot	2 ov		
Opinnot ja tiedonhankinta	1 ov	S	Suoritettu
Etiikka	1 ov	S	Suoritettu
Yrittäjyys ja yhteiskunta	9 ov		
Kansantalous	1 ov	3	Hyvä
Yrittäjyys	2 ov	4	Hyvä
Laadunhallinnan perusteet	2 ov	3	Hyvä
Ihminen työyhteisössä	2 ov	4	Hyvä
Markkinoinnin perusteet	2 ov	2	Tyydyttävä
Kielet ja viestintä	10 ov		
Tiedottava viestintä	1 ov	k1) M	Muulla suoritettu
Suullinen ja kirjallinen vaikuttaminen	2 ov	1	Tyydyttävä
ADB-svenska	2 ov	2	Tyydyttävä
Professional English	3 ov	3	Hyvä
Advanced Professional English	2 ov	4	Hyvä
Tietojenkäsittely	6 ov		
Tietojenkäsittelyn perusteet	1 ov	4	Hyvä
Tietoverkot	2 ov	5	Kiitettävä
Työvälineohjelmat	3 ov	2	Tyydyttävä
Matematiikka ja luonnontieteet	5 ov		
Tietotekniikan matematiikka ja logiikka	1 ov	4	Hyvä
Talousmatematiikka	2 ov	1	Tyydyttävä
Tilastomatematiikan perusteet	1 ov	1	Tyydyttävä
Tutkimustyön perusteet	1 ov	S	Suoritettu
Ammatilliset perusopinnot	38 ov		
Yritystoiminta ja atk	7 ov		
Yritysmuodot ja yrityksen perustamistoimet	1 ov	4	Hyvä
Yrityksen logistiikka	1 ov	4	Hyvä
Liikekirjanpidon ja tilinpäätöksen perusteet	2 ov	1	Tyydyttävä
Yrityksen tietojärjestelmäsovellukset	2 ov	3	Hyvä
Atk-oikeus	1 ov	2	Tyydyttävä
Laitteisto-oppi	6 ov		
Laitteistot ja varusohjelmat	2 ov	4	Hyvä
Mikrotuki	2 ov	4	Hyvä
Tietoliikenne	2 ov	2	Tyydyttävä

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<u>Suoritettu kokonaisuus</u>	<u>Laajuus</u>	<u>Arviointi</u>	
Ohjelmointi	11 ov		
Ohjelmoinnin perusteet	4 ov	3	Hyvä
Käyttöliittymän analysointi	1 ov	4	Hyvä
Sovelluskehitys	3 ov	4	Hyvä
Ohjelmistojen dokumentointi	1 ov	4	Hyvä
Dynaamiset WWW-sivut	2 ov	k2) M	Muualla suoritettu
Systeemyö	14 ov		
Tietosysteemit ja systeemyö	2 ov	3	Hyvä
Tietovarastojen perusteet	2 ov	1	Tyydyttävä
Sovelluskehittimien laajennuskielet	2 ov	1	Tyydyttävä
Ohjelmien yhteistoiminta	2 ov	2	Tyydyttävä
Asiakas- palvelinjärjestelmät	2 ov	3	Hyvä
Tietojärjestelmän suunnittelu	4 ov	k2) M	Muualla suoritettu
SUUNTAAVAT OPINNOT	32 ov		
Digitaaliset yrityspalvelut	20 ov		
Grafiikka ja multimedia	10 ov		
Graafinen tuotanto	3 ov	4	Hyvä
Multimedia ja Internet	4 ov	5	Kiitettävä
Web-sovellusten rakentaminen	3 ov	4	Hyvä
Ohjelmointi ja videointi	10 ov		
Verkko-ohjelmointi	3 ov	1	Tyydyttävä
Videokuvaus ja editointi	4 ov	4	Hyvä
3D-grafiikka	3 ov	2	Tyydyttävä
Suuntaava valinnainen moduuli	12 ov		
Digital Media	5 ov	m1) M	Muualla suoritettu
Human Computer Interaction	5 ov	m2) M	Muualla suoritettu
ASP - ohjelmointi	2 ov	4	Hyvä
VAPAASTI VALITTAVAT OPINNOT	13 ov		
Text Workshop	1 ov	m3) M	Muualla suoritettu
Graafinen viestintä tiedottajan työssä	2 ov	m4) M	Muualla suoritettu
Videokurssi	3 ov	5	Kiitettävä
Saksan alkeiskurssi	2 ov	3	Hyvä
Saksan jatkokurssi	2 ov	3	Hyvä
My Foreign Experience	1 ov	3	Hyvä
Avancerad ADB-svenska	2 ov	1	Tyydyttävä
HARJOITTELU			
Koulutusohjelmakohtaista harjoittelua	20 ov		
<i>Huntek Tech Ltd, Kiina</i>	20 ov		

Koulutusohjelma	Tietojenkäsittely
Tekijä	Pekkarinen Petri
Opinnäytetyön nimi	Prosessimallit intranet-projektissa Case: CS-Online Solutions
Opponentti	Pietilä Jarkko
Ohjaaja	Sampola Päivi

Yleinen arviointi (asteikko 1-5)

Vaikeusaste	4
Tulos ja sen käyttökelpoisuus	4
Teoreettinen viitekehys / tiedon hankintamenettely	4
Itsenäinen työskentely ja ongelman ratkaisukyky	4
Asiantuntemus / analyysin teko	4
Lähteiden käyttäminen ja relevanssi työlle	3
Raportin havainnollisuus ja kieliasu	3
Suullinen esitys	4

Lausunto ja opinnäytetyön päättöarvosana (1-5)

Opinnäytetyön vahvoina puolina voidaan pitää:
Opinnäytetyössä on monipuolisesti esitetty intranet projektiin liittyviä toimintatapoja ja prosessimallien hyödyntämistä. Aihe on laaja ja opinnäytetyön salainen materiaali on onnistuneesti rajattu pois opinnäytetyöstä. Lopputuloksena syntyneen intranetin laadukkuutta ja käytettävyyttä on myös tutkittu onnistuneesti ja ammattimaisesti. Opinnäytetyössään Petri on osoittanut kykenevänsä itsenäiseen työskentelyyn ja toimivan järjestelmän rakentamiseen.

Kehitettäviä osa-alueita voisivat olla:
Opinnäytetyö jäi raportoinnin osalta hieman suppeaksi.

Edellä lausuttuun viitaten esitän että opinnäytetyö hyväksytään arvosanalla **4**.

Vaasassa joulukuun 8. päivänä 2004


Päivi Sampola

17.12.2004

Opiskelija **0000745 Pekkarinen Petri Markus**

080180-1415

	<u>Laajuus</u>	<u>Arviointi</u>
OPINNÄYTETYÖ		
Prosessimallit intranet-projektissa. Case: CS- Online Solutions	10 ov	4 Hyvä

Korvaavat suoritukset

- k1) Opintoja Jyväskylän avoimessa yliopistossa (1 ov) 23.03.2000
Jyväskylän avoin yliopisto
- k2) Studies at Temasek Polytechnic (5 ov) 11.03.2003
Temasek Polytechnic, Singapore

Muut suoritukset

- m1) Digital Media (5 ov) 31.05.2002
Temasek Polytechnic, Singapore
- m2) Human Computer Interaction (5 ov) 31.05.2002
Temasek Polytechnic, Singapore
- m3) Text Workshop (1 ov) 27.01.2000
Jyväskylän avoin yliopisto
- m4) Graafinen viestintä tiedottajan työssä (2 ov) 27.03.2000
Jyväskylän avoin yliopisto

Ammattikorkeakoulututkinnon suorittanut on kirjoittanut tutkintoon kuuluvan kypsyysnäytteen suomen kielellä sekä saavuttanut ammattikorkeakouluopinnoista annetun asetuksen (A 256/1995) edellyttämän ruotsin kielen taidon, joka valtion virkamiehiltä vaadittavasta kielitaidosta annetun lain (149/22) mukaan vaaditaan korkeakoulututkintoa edellyttävään virkaan kaksikielisellä virka-alueella ja joka ammatin harjoittamisen ja ammatillisen kehityksen kannalta on tarpeellinen.

Yksi opintoviikko (ov) tarkoittaa työmäärää, johon opiskelija käyttää keskimäärin 40 työtuntia.

Vaasassa 17. joulukuuta 2004


Kenneth Norrgård
Osastonjohtaja

DIPLOMA SUPPLEMENT

0000745 1(4)

This Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of this supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates, etc.) It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free of any value-judgements, equivalence statements or suggestions about recognition. Information should be provided in all eight sections. Where information is not provided, a reason should be given.

1 INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

- | | | |
|-----|-------------------------------|---------------------|
| 1.1 | Family name(s) | <i>Pekkarinen</i> |
| 1.2 | Given name(s) | <i>Petri Markus</i> |
| 1.3 | Date of birth | <i>080180-1415</i> |
| 1.4 | Student identification number | <i>0000745</i> |

2 INFORMATION IDENTIFYING THE QUALIFICATION

- | | | |
|-----|--|---|
| 2.1 | Name of qualification and title conferred | <i>Liiketalouden ammattikorkeakoulututkinto, Tradenomi</i> |
| 2.2 | Main field(s) of study for the qualification | <i>Natural Sciences, data processing</i> |
| 2.3 | Name and status of awarding institution | <i>Vaasan ammattikorkeakoulu (Vaasa Polytechnic) state recognised polytechnic, Decree on Higher Education Degree Structure 464/1998</i> |
| 2.4 | Name and status of institution administering studies | <i>Not applicable</i> |
| 2.5 | Language(s) of instruction/examination | <i>Finnish</i> |

3 INFORMATION ON THE LEVEL OF THE QUALIFICATION

- | | | |
|-----|------------------------------|--|
| 3.1 | Level of qualification | <i>See 8. First-cycle polytechnic degree.</i> |
| 3.2 | Official length of programme | <i>3,5 years, 140 cu (210 ECTS), 1 cu equals approx. 40 hours of student work. One Finnish credit unit (cu) equals 1,5 ECTS credits.</i> |
| 3.3 | Access requirement(s) | <i>The Finnish Matriculation examination gives general eligibility for higher education. General eligibility is also given by Finnish upper secondary vocational qualifications of at least three years' duration. All these qualifications require at least 12 years of schooling. Equivalent foreign qualifications also give general eligibility for higher education. There is numerus clausus, i.e. restricted entry, to all fields of study.</i> |

4 INFORMATION ON THE CONTENTS AND RESULTS GAINED

- | | | |
|-----|------------------------|---|
| 4.1 | Mode of study | <i>Full-time</i> |
| 4.2 | Programme requirements | <i>Studies leading to a polytechnic degree comprise:
1) basic studies, 31 cu
2) professional studies, 94 cu;
3) optional studies, 10 cu;
4) practical training, 20 cu
5) final thesis, 10 cu
The general aim of studies leading to a polytechnic degree is to provide the student with:</i> |

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1) the extensive practical basic knowledge and skills and theoretical basis necessary for performing expert duties in the field concerned;
2) the preconditions for following developments in the field concerned and keeping up to date;
3) the capacity for continuing training;
4) sufficient communications and language skills; and
5) the ability to participate in international activities in the field concerned.

4.3 Programme details (e.g. modules or units studied), and the individual grades/marks/credits obtained
See Transcript of Records

4.4 Grading scheme and, if available, grade distribution guidance
5 = Excellent
4 = Good
3 = Good
2 = Satisfactory
1 = Satisfactory

4.5 Overall classification of the qualification
Not applicable

5 INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1 Access to further study
- Eligible for polytechnic specialisation studies
- Eligible for second-cycle polytechnic studies with at least three years of relevant work experience
- Eligible to pursue university studies; in individual cases access to second-cycle university programmes (based on the decision by the receiving institution).

5.2 Professional status
Under the Finnish legislation, a person who has taken Liiketalouden ammattikorkeakoulututkinto, Tradenomi, is qualified for posts or positions in the public sector for which the qualification requirement is a polytechnic degree. In some cases, the qualification requirement also includes the completion of minor or major studies in certain specified fields of study. The degree falls under the Council Directive 89/48/EEC of 21 December 1988 on a general system for the recognition of higher education diplomas awarded on completion of professional education and training of at least three years' duration.

6 ADDITIONAL INFORMATION

6.1 Additional information

6.2 Further information sources
*<http://www.puv.fi>, Vaasa Polytechnic, <http://www.minedu.fi>
Ministry of Education*

7 CERTIFICATION OF THE SUPPLEMENT

7.1 Date
Vaasa, 17 December 2004

7.2 Signature

*Jouko Paaso
President*

7.3 Capacity

7.4 Official stamp or seal

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8 INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM

The Finnish education system consists of basic education, general and vocational upper secondary education, higher education and adult education. The basic education consists of a 9-year compulsory school for all children from 7 to 16 years of age.

Post-compulsory education is given by general upper secondary schools and vocational institutions. The general upper secondary school provides a 3-year general education curriculum, at the end of which the pupil takes the national Matriculation examination (ylioppilastutkinto/studentexamen). Vocational institutions provide 3-year programmes, which lead to upper secondary vocational qualifications (ammattillinen perustutkinto/yrkesinriktad grundexamen).

General eligibility for higher education is given by the Matriculation examination and the upper secondary vocational qualification. These qualifications require at least 12 years of schooling. Equivalent foreign qualifications also give general eligibility for higher education.

The Finnish higher education system comprises 20 universities (yliopisto/universitet) and 29 polytechnics (ammattikorkeakoulu, AMK/yrkeshögskola, YH). Ten of the universities are multi-faculty universities and ten are specialised institutions. All universities engage in both education and research and have the right to award doctorates. The polytechnics are multi-field institutions of professional higher education. The aim of studies is to provide the necessary knowledge and skills needed in expert functions in work life and to meet workplace requirements and development needs.

Higher education studies are measured in credits (opintoviikko/studievecka) with one credit defined as the amount of work required from the student to attain the required objectives. One credit corresponds to approximately 40 hours of student work.

Polytechnic degrees

There is a national decree which defines the objectives, extent and overall structure of polytechnic degrees. The Ministry of Education confirms the degree programmes of the polytechnics, and within the framework of these regulations, the polytechnics decide on the contents and structure of their degrees in more detail. The polytechnics also decide on their annual curricula and forms of instruction.

The polytechnic degree (ammattikorkeakoulututkinto/yrkeshögskoleexamen) is a Bachelor-level/first-cycle degree, the extent of which is 140 to 180 credits (3.5 to 4.5 years of full-time study) depending on the study field. In all fields of study the curriculum comprises basic and professional studies, optional studies, a practical training period and a diploma project.

The degree structure of polytechnics is currently being developed. The experiment phase in which polytechnics may offer second-cycle polytechnic degrees (ammattikorkeakoulun jatkotutkinto /påbyggnadsexamen vid yrkeshögskola) lasts until 2005. Degrees are offered in the fields of technology and communications, business and administration and health care and social services. These degrees consist of 40 to 60 credits (1 to 1.5 years of full-time study). The programmes are meant for polytechnic graduates with at least 3 years of relevant work experience after completing the polytechnic degree.

University degrees

There are field-specific national decrees on university degrees defining the objectives, extent and overall structure of degrees. The universities decide on the detailed contents and structure of the degrees they award. They also decide on their curricula and forms of instruction.

The extent of the lower academic/first-cycle degree is a minimum of 120 credits (3 years of full-time study). This degree is usually called kandidaatti/kandidat. Other lower academic degrees are, e.g. oikeusnotaari/rättsnotarie (law) and farmaseutti/farmaseut (pharmacy). The degree consists of basic and intermediate studies in the major subject, including a thesis; studies in one or more minor subjects and language studies.

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The higher academic/second-cycle degree usually consists of a total of 160 to 180 credits or a first-cycle degree of at least 120 credits plus 40 to 60 credits (minimum of 5 years of full-time study). This degree is usually called maisteri/magister. Other higher academic degrees are diplomi-insinööri/diplom ingenjör (technology), oikeustieteen kandidaatti/juris kandidat (law), proviisori/provisor (pharmacy), arkkitehti/arkitekt (architecture). For the degree, students complete an advanced study module and prepare a thesis. In medicine and in veterinary medicine, the higher academic degree takes six years of full-time study to complete. The degree in these fields and in dentistry is called lisensiaatti/licentiat.

Students can apply for doctoral studies after the completion of the higher academic degree. In most fields, a pre-doctoral degree of lisensiaatti/licentiat may be taken before the Doctor's degree. In general, it takes approximately two years of full-time studies after the higher academic degree. The full-time studies for the Doctor's degree take approximately four years after the higher academic degree.

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The Student	0000745 Pekkarinen Petri Markus	080180-1415
Study Program	Data Processing	140 cu
Study branch	Digital Business Services	145 cu
		Completed

<u>Completed studies</u>	<u>Credits</u>	<u>Assessment</u>
BASIC STUDIES	70 cu	
General Basic Studies	32 cu	
Introductory Studies	2 cu	
Studies and Information Acquisition	1 cu	S Pass
Ethics	1 cu	S Pass
Entrepreneurship	9 cu	
Public Economy	1 cu	3 Good
Entrepreneurship	2 cu	4 Good
Basics of Quality Management	2 cu	3 Good
Man in the Working Community	2 cu	4 Good
Basics of Customer Relationship Marketing	2 cu	2 Satisfactory
Languages and Communication	10 cu	
Informative Communication	1 cu	k1) M Credit Transfer
Efficient Oral and Written Communication	2 cu	1 Satisfactory
Computing ADP Swedish	2 cu	2 Satisfactory
Professional English	3 cu	3 Good
Advanced Professional English	2 cu	4 Good
Data Processing and Toolkits	6 cu	
Basics of Data Processing	1 cu	4 Good
Computer Networks	2 cu	5 Excellent
Basics of Programming	3 cu	2 Satisfactory
Mathematics	5 cu	
Mathematics and Logic of Information Technology	1 cu	4 Good
Mathematics and Business	2 cu	1 Satisfactory
Basics of Statistics	1 cu	1 Satisfactory
Methodology for Studies and Research	1 cu	S Pass
Professional Basic Studies	38 cu	
Companies and Automatic Data Processing	7 cu	
Entrepreneurship and Establishing a Company	1 cu	4 Good
Basics of Logistics	1 cu	4 Good
Basics of Book-keeping and Financial Statement	2 cu	1 Satisfactory
Data Applications of a Company	2 cu	3 Good
Law and Automatic Data Processing	1 cu	2 Satisfactory

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<u>Completed studies</u>	<u>Credits</u>	<u>Assessment</u>	
Hardware and Platform	6 cu		
Hardware and Platforms	2 cu	4	Good
PC Support	2 cu	4	Good
Data Communications	2 cu	2	Satisfactory
Programming	11 cu		
Basics of Programming	4 cu	3	Good
Analysing the User Interface	1 cu	4	Good
Applications Development	3 cu	4	Good
Software Documentation	1 cu	4	Good
Dynamical web-pages	2 cu	k2) M	Credit Transfer
Systems Development	14 cu		
Data Processing Systems and Systems Development	2 cu	3	Good
Basics of Databases	2 cu	1	Satisfactory
Macro Programming	2 cu	1	Satisfactory
Program Integration	2 cu	2	Satisfactory
Client Server Systems	2 cu	3	Good
Information Systems Design	4 cu	k2) M	Credit Transfer
INTENSIVE STUDIES	32 cu		
Specialisation Alternative of Digital Company Services	20 cu		
Graphics and Multimedia	10 cu		
Graphical Production	3 cu	4	Good
Multimedia and Internet	4 cu	5	Excellent
Building Web Applications	3 cu	4	Good
Programming and Making Videos	10 cu		
Network Programming	3 cu	1	Satisfactory
Video-Shooting and -Editing	4 cu	4	Good
3D-Graphics	3 cu	2	Satisfactory
Specialised Optional Module	12 cu		
Digital Media	5 cu	m1) M	Credit Transfer
Human Computer Interaction	5 cu	m2) M	Credit Transfer
ASP Programming	2 cu	4	Good
OPTIONAL STUDIES	13 cu		
Text Workshop	1 cu	m3) M	Credit Transfer
Using Graphics When Working with Communication	2 cu	m4) M	Credit Transfer
Video Course	3 cu	5	Excellent
German for Beginners	2 cu	3	Good
German Continuing Course	2 cu	3	Good
My Foreign Experience	1 cu	3	Good
Advanced Computing Swedish	2 cu	1	Satisfactory

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	<u>Credits</u>	<u>Assessment</u>
PRACTICAL TRAINING		
Professional Practical Training	20 cu	
<i>Huntek Tech Ltd, China</i>	20 cu	
THESIS		
Processmodels in an Intranet Project. Case: CS- Online Solutions	10 cu	4 Good

Credit Transfer

- k1) Studies at Open University of Jyväskylä (1 cu) 23.03.2000
Open University of Jyväskylä
- k2) Studies at Temasek Polytechnic (5 cu) 11.03.2003
Temasek Polytechnic, Singapore

Other Credits

- m1) Digital Media (5 cu) 31.05.2002
Temasek Polytechnic, Singapore
- m2) Human Computer Interaction (5 cu) 31.05.2002
Temasek Polytechnic, Singapore
- m3) Text Workshop (1 cu) 27.01.2000
Open University of Jyväskylä
- m4) Using Graphics When Working with Communication (2 cu) 27.03.2000
Open University of Jyväskylä

The Student has taken a maturity in his thesis in Finnish and has acquired the Swedish language skills required of officials working in bilingual regions, as stipulated in the Statute on Finnish Polytechnics (D265/1995). He has shown good oral and written skills in his Swedish studies.

One credit unit (cu) is equivalent to 40 hours of effective student work.

Vaasa 17th December 2004


Elisabeth Malka
Dean