



GS³D Master's Degree Programme

Report for BCBU meeting

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Basic Information

Master's Degree Programme in Software, Systems and Services Development in Global Environment (GS³D)

- ✓ The Department of Information Processing Science organizes annually a two-year full-time Master's degree programme in Software, Systems and Services Development in the Global Environment (GS³D).
- ✓ Graduates from GS³D will have the competence to work as IS/IT consultants, business and system analysts, IS designers, software engineer or IS/IT/SE project managers in global ICT companies and organisations
- ✓ The programme will provide multidisciplinary knowledge of software, systems and services development in a global context.
- ✓ Latest application period started ended on 31st of January 2012
- ✓ Next application will start on November 2012

GS³D Master's Degree Programme			
COMPULSORY STUDIES (95 ECTS)	YEAR	CR	PERIOD
Orientation Studies for International Students	1	4	1
IT Infrastructure	1	5	1
Software Development in Global Environments	1	5	4
System Design Methods for Information Systems	1	5	1
Research Methods	1	5	2+3
ICT and Organizational Change	1	5	3
Open Source Software Development	1	4	1+2
Information Security Policy and Management in Organisations	1	5	1
Software Business and IT Management	1	5	2
Software Engineering Management, Measurement and Improvement	2	4	2
Information Systems Theory OR Software Engineering Research	2	7	1+2
Project in Distributed Global Context	2	11	1+2
Master's Thesis	2	30	3+4
TOTAL		95	

Minimum 25 credits of optional studies

OPTIONAL STUDIES: in every year	YEAR	CR	PERIOD
Enterprise Systems	1.-2.	4	2
Emerging Technologies and Issues	1.-2.	4	3
Software Production and Maintenance	1.-2.	4	3
Software Quality and Testing	1.-2.	5	1
Interaction Design	1.-2.	4	3
Real Time Distributed Software Development	1.-2.	6	1+2
Embedded Software Development Environments	1.-2.	4	4
Doing SW Business in China	1.-2.	5	4

OPTIONAL STUDIES: in every two years	YEAR	CR	PERIOD
Digital Service Innovation and Design	1.-2.	5	1
Emerging Trends in Distributed Software Engineering	1.-2.	5	1
Emerging Trends in Software Testing	1.-2.	5	1
ICT and Behaviour Change	1.-2.	5	2
The Next Generation of the Web	1.-2.	5	3
Usability Testing	1.-2.	5	3
Advanced Topics on Human-Centred Design	1.-2.	5	3
Designing Secure Systems and Software	1.-2.	5	4
Advanced Topics in Information Security Management	1.-2.	5	4
Software Business and IT Management	1.-2.	5	2
Software Business Development	1.-2.	5	2
Design and Analysis of Computer Algorithms	1.-2.	5	1
Program Correctness	1.-2.	5	1

Student selection

Annual student intake: 50 from which approximately 95% foreign nationalities

Selection criteria:

- ✓ Applicants must have successfully completed a Bachelor's level degree (180 cr, 3 years) or equivalent degree *in the area of Computer Science, Systems Science, Information Technology or Business Administration*
- ✓ Motivation letter, recommendation letter(s), average grade in Bachelor degree and interview (face to face or over web)
- ✓ Applicants must provide proof of their proficiency in English (IELTS, TOEFL, or other relevant test) <http://www oulu.fi/degree/language.html>
- ✓ In addition to the master's programme students, also other students can attend to joint cooperation courses from the partner institutions
- ✓ Student application to Master's studies is synchronized with the University of Oulu (<http://www.degree oulu.fi/>)

- ✓ GS³D programme **was started** on September 2010 (17 students)
- ✓ **Second student** group started the studies on September 2011
 - ✓ Number of students who accepted their study right was 29
 - ✓ Total number of valid applicants in 2011 was 91
 - ✓ The nationalities of applicants are China (22), India (19), Pakistan (27), Iran (15), Bangladesh (7), Ethiopia (5), **Russia (5)**, Nigeria (20), Nepal (6), Finland (4), etc.
 - ✓ But 35 applicants already live in Finland, Bachelor degree from Polytechnics
- ✓ **Third student admission** round between 21.11.2011-31.1.2012
 - ✓ Number of new students maximum 50
 - ✓ Number of applicants in 2012 was 100 , 70 invited to be interviewed
 - ✓ The nationalities of applicants are China (23), India (7), Pakistan (18), Iran (6), Bangladesh (6), Ethiopia (24), **Russia (2)**, Nigeria (16), Nepal (4), Finland (5), etc.
 - ✓ But 33 applicants already live in Finland, Bachelor degree from Polytechnics
 - ✓ Student selection results are ready in 13th of April 2012
 - ✓ Studies during 9/2012-6/2014
 - ✓ More information: <http://GS3D.Oulu.fi>

1. Master's Degree Programmes
 - ✓ Software, Systems and Services Development in the Global Environment (GS³D)
<http://gs3d.oulu.fi/> (UOulu)
 - ✓ Applied Informatics (NArFU)
 - ✓ Information Systems and Technology (PetrSU)
2. Steps towards double degree (UOulu, PetrSU and NArFU)
 - ✓ Purpose and operative plan towards double degree→5/2012
 - ✓ Structure and descriptions of the existing programmes
 - ✓ Comparison of the programmes and selection of the jointly recognizable studies
30 credits of courses and jointly supervised thesis 30 credits
 - ✓ Course descriptions in English: NArFU and PetrSU,
all Master's courses in GS³D are in English
3. Course exchange
 - ✓ Plan for year 2012-13
 - ✓ Coordination of joint courses, timing, acceptance as part of degrees
 - ✓ Learning and teaching methods

4. Teacher exchange
 - Finding and selecting motivated teachers
 - To teach jointly recognizable courses and course modules
 - Practicing English, pedagogical and learning technology skills (in the BCBU+ project started 11/2011)
5. Financial issues
 - Basic financing from Universities
 - Project financing (BCBU+, Erasmus Mundus, FIRST, Triple I etc.)
6. Other issues discussed
 - Jointly supervision of thesis
 - Possibilities of supervising PhD students and studies
 - Regular online meetings
 - Summer and winter schools
 - Seminars and work shops
 - Co operation in BCBU+ (ENPI) project

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