



Turun yliopisto
University of Turku



ANNUAL REPORT 2011

University of Turku in 2011

2009

2010

2011

Students	18 380	21 142	20 090
Degree students	15 477	18 147	17 071
New students	1 747	2 117	2 122
Adult students	12 818	19 908	20 564
Master's degrees	894	1 295	1 379
Doctoral degrees	138	140	152
Scholarly publications	2 869	3 986	3 973
Person work years	2 871	3 282	3 287
Total expenditure (1000€)	210 470	250 496	265 466

Starting from 2010, the figures include the Turku School of Economics, which merged with the University of Turku on 1 January 2010. The total expenditure includes VAT as a new item of expenditure starting from 2010.

2011 – A Year of Research and Culture

The renewed University of Turku established its position as an international high-quality research and cultural institution.

- The reforms in the methods and structures required by the merger of the universities and the new legal status were continued.
- The University's strategy was revised and its profile as an international research university was sharpened.
- The University's societal and financial impact in its operating region was further strengthened.
- The University implemented its general educational mission by contributing in a versatile way to the European Capital of Culture events in Turku.

ANNUAL REPORT 2011

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Rector's Review 4

Highlights in 2011 6

Faculties 8

Faculty of Humanities 9

Faculty of Mathematics and Natural Sciences 10

Faculty of Medicine 11

Faculty of Law 12

Faculty of Social Sciences 13

Faculty of Education 14

Turku School of Economics 15

Special Units 16

Support Services 18

CONTENTS



The University Celebrated its Doctoral Graduates

The eighteenth degree ceremony of the University of Turku was held at the end of May. It was a joint event for all seven faculties of the University. The three-day festivities consisted of the sword sharpening ceremony, the conferment ceremony (promootio), the academic procession, the service at the Cathedral, the degree ceremony banquet, the ball and the boat trip.

In the conferment ceremony, 118 doctoral graduates and 19 honorary doctors were recognised. For the first time, three jubilee doctors were also recognised: those who had participated in the doctoral degree conferring ceremony of 1960. The jubilee doctors are former President **Mauno Koivisto**, Professor emeritus **Kari Lagerspetz** and Biology Teacher **Rauno Linnavuori**. In addition to the international top researchers, the honorary doctors (honoris causa) include people who are important for the University of Turku and play an important role in society, the economy or culture, such as Opera Singer **Karita Mattila**, Master of Laws with court training **Sauli Niinistö** and the Managing Director of the Confederation of Finnish Industries EK **Mikko Pukkinen**.

Rector's Review 2011

In 2011, the university community was still getting used to the changes in the methods and the operational culture brought about by the merger of the universities and the new legal status. The University of Turku Board has required that comparisons between the University's current operational structure and the possible alternative operational and administrative structures should be continued. However, the major turmoil related to the change is already well behind and the staff can again focus fully on their basic responsibilities - research and research-based education as well as societal interaction.

Especially towards the end of the year, the University's operations were characterised by getting ready for the agreement negotiations to be held with the Ministry of Education and Culture. Preparations for the negotiations included, for example, revising the University's Strategy for 2013-2016 and the action plans implementing it. In addition to the Strategy, a new Human Resources Policy was prepared for the University.

From the perspective of results, the year was a good one. The University's fundraising has been a great success. By the end of 2011, the University had raised approximately 40 million euros including the co-financing from the state, and there were more than 10,000 donors, more than any other Finnish university. As many as 1,426 bachelor's degrees, 1,379 master's degrees and 152 doctoral degrees were completed in 2011. These are all record numbers if 2008 - which was an exceptional year because of the degree reform - is not taken into account. The number of scholarly publications (3,973) remains at a high level and the University of Turku is clearly the second largest producer of scholarly publications in Finland after the University of Helsinki.

The task of the University is also to disseminate the research results for the use of society. In order to advance this aim, the University's innovation activities were strengthened by hiring a Business Development Manager for the University. In addition, the University started a project the aim of which is the commercialisation of university innovations.

Doctoral education was made more systematic by starting a new University-wide graduate school. The purpose of the University of Turku Graduate

School is to organise high-quality, supervised and efficient doctoral education for the doctoral students. The aim of the graduate school is not to increase the volume of doctoral education but to improve the quality of that education. High-quality doctoral education, the research collegia and the tenure track system for researchers started in the autumn will offer an opportunity for career advancement to the young researchers of the University of Turku.

The University profiles itself as an international research university. Therefore, central measures supporting internationalisation include advancing the internationally competitive research environment, strengthening the international interaction of education as well as adding internationality as a natural part of the operations of the whole university community. These aims will be supported by the University's new Language Policy, and the International Welcome Services (IWS) will assist the units with their international recruitment. IWS is part of the University of Turku's external image and it will increase the University's international attractiveness.

I have now worked as the Rector of the University of Turku for fifteen years and this will be my last Rector's review. I would like to take this opportunity to thank the whole university community and the cooperation partners for good cooperation for the betterment of the University of Turku during these years. Professor Kalervo Väänänen will begin his term as the new Rector of the University of Turku on 1 August 2012. I am happy and confident to leave the University under his leadership.

Keijo Virtanen





Highlights in 2011

Structural and strategic development continued

The renewed University of Turku continued to improve its structure and operations. The University, consisting of six faculties and the School of Economics, has more than 20,000 students and it employs more than 3,500 people.

The University continued to improve its operations by merging and changing the structure of the faculties and the special units in order to achieve the benefits of greater synergy. The University also revised its strategy by sharpening its profile, which is based on six areas of strength in research. The new strategy will strengthen the aspiration towards a more international, high quality and competitive university.

Research career consolidated

In the autumn, the University of Turku started the four-step career path for researchers, the so-called tenure track, by publicly advertising nine assistant professor posts in different faculties.

The Academy of Finland granted 57 doctoral student positions to eight doctoral programmes at the University of Turku for the period 2012-2015. However, a significant proportion of the doctoral students are outside the programmes. The University started a University-wide graduate school in August, the purpose of which is to ensure high quality postgraduate education and the equal status of doctoral students.

The University's two research collegia were also strengthened. Turku Institute for Advanced Studies (TIAS) selected 12 researchers for 2012-2014 and Turku Collegium for Science and Medicine (TCSM) seven researchers.

- All these measures will offer young researchers better and more flexible opportunities for advancing in their research career, says Rector Keijo Virtanen.

Fundraising campaign for research

The universities' fundraising campaigns supported by the state's co-financing ended in June 2011. During the campaign, the University of Turku collected donations worth over 12 million euros. Thus, the total return of the fundraising including the co-financing was over 40 million euros. The funds raised have been consolidated. Returns on the funds will be from two to four million euros annually.

- The University of Turku has a huge number of supporters, over 10,000 private people or companies, more than any other Finnish university. With the returns on the funds donated, the University can improve its research and education well into the future, says Vice-Rector Tapio Reponen.

Excellent evaluation for plant science

A discipline evaluation carried out by the Academy of Finland states that the University of Turku's research on plant science is of very high quality and is internationally influential. This has been recognised, for example, by it being granted the status of a Centre of Excellence in Research. The unit was also applauded for its student and researcher recruitment and the excellent research environment that efficiently utilises cooperation across disciplinary boundaries.

There are two professors in the unit - Eva-Mari Aro and Eevi Rintamäki - as well as several researchers and research groups who are funded partly by external funding. The unit's research, for example, is directed at the photosynthesis and stress phenomena of plants and cyanobacteria, the interactions of plants and microorganisms, and developing solar fuel.

The Academy of Finland evaluation of chemistry research was also completed in 2011. In addition, the overall evaluation of the University of Turku's research carried out in 2010 was continued with international peer-reviews in certain areas of strength.

- The feedback has been very positive and it supports the strategic choices of the University's research, says Vice-Rector Harri Lönnberg.



Photo: Kari Vainio



Academy of Finland research posts for University of Turku researchers

University of Turku researchers were successful in the Academy of Finland research post selections. Of the 121 Postdoctoral Researchers, twelve are University of Turku researchers and of the 49 Academy Research Fellows, three are from the University of Turku. In addition, Professor of Cardiovascular Medicine Olli Raitakari was appointed to a five-year post of an Academy Professor.

Of the five research groups in the new Finnish Centre of Excellence in Molecular Systems Immunology and Physiology Research, two are located at the University of Turku.

The University of Turku's share of the competitive Academy of Finland funding remained at a high level. The University received approximately 28 million euros of Academy funding in 2011, which represents around 30 per cent of all the supplementary funding the University received. The University of Turku has been one of the top universities in the Academy of Finland funding for a number of years.

Well-being from culture

The University of Turku participated widely in the programme and events of the European Capital of Culture 2011. The University was actively involved with 11 projects that belonged to the official programme, most of which still continue. In addition, the University participated in more than 50 events and activities.

The University's contribution to the programme of the year consisted of multidisciplinary and international research, events targeted at the public, and activities that increased well-being in the region. For example, together with the City of Turku, the University established a professorship in cultural health research. The TIUKU project, focusing on the relationship between culture and well-being, received the most publicity of the University's projects, but many other projects also did visible and enthusiastic work in order to enrich the city's cultural life.

International recognition for research

The University of Turku remained in a good position in the tightening international competition between research universities. In the international QS World University Rankings, the University of Turku was one of the top two Finnish universities, in position 224. The ranking utilises academic peer reviews and the number of scholarly publications and it assesses, for example, the quality of research and education, the employment of graduates and the internationality of universities.

- We are glad that the University of Turku was mentioned in the employer evaluations, for example, considerably more often than previously, says Vice-Rector Pirjo Nuutila.

The University of Turku also maintained its position in the annual Academic Ranking of World Universities (ranked 301 - 400). In this ranking, the number of international scholarly articles and the citation index of research papers are emphasised, for example.

Tales of Turku Squares and the Children's University

The University of Turku also continued its cultural and academic events targeted at the public, for example, in the form of guided walks and the Children's University. In addition to the Academic Walk and the Agricola Walk for schoolchildren, a new guided walk called Tales of Turku Squares was started in the summer of 2011. The walk, which generated a lot of interest, introduces the origins and the development of the city of Turku through three old squares.

The groundbreaking Children's University that was started in the summer of 2008 continued its popular lectures and science camps. In the spring, the children's lectures focused, for example, on the functioning of the brain, the mysteries of chemistry and the life of Native Americans. The Children's University also organised a lecture in the Night of Sciences event in Turku in August.

Year 2011 in the Faculties



FACULTY OF HUMANITIES

Cooperation and communality strengthened

The operation of the two large entities formed into the Faculty of Humanities – the School of Languages and Translation Studies and the School of History, Culture and Arts Studies – has started well and stabilised. On the other hand, new needs for change have emerged.

The internal cooperation between both of the Faculty's departments progressed successfully, for example, with the undergraduate courses cooperatively organised by the subject areas. The strengthening of the departmental identity among the various subject areas is also significant. In postgraduate education, the doctoral programmes started by the departments – named Utuling for Languages and Translation Studies and Juno for History, Culture and Arts Studies – form the new framework of the Faculty's postgraduate education. These doctoral programmes are responsible for the development work related to doctoral education in accordance with their respective areas of emphasis.

The leaders of the Faculty and the departments visited all the subject areas during the year to discuss their current issues regarding education and research as well as development needs.

The round of visits provided important information on the units' achievements, which can be utilised in planning the operations of the whole Faculty. The events described convincingly the staff members' commitment and proficiency. In conjunction with the meetings, a discussion was also started about the size of the student intake, application targets that are larger than currently, more wide-ranging educational entities and the aims of the publishing activities.

The national perspective on the structural development of the field of humanities was strengthened on the basis of the report by a working group consisting of deans and appointed by Universities Finland (UNIFI). It turned out that although national cooperation plays a role in planning for the future, the university-specific local views are decisive when making development decisions. The Faculty will continue its long-term planning work and strengthen its profile as a wide-ranging and multidisciplinary unit of humanities by renewing the organisation of education and the structures of studies.

Risto Hiltunen, Dean

	2009	2010	2011
All students	5 041	4 964	4 497
New degree students	433	439	435
Master's degrees	183	274	270
Doctoral degrees	10	12	16
Staff (FTE)	293	300	275

FACULTY OF MATHEMATICS AND NATURAL SCIENCES

Strong international research activities

Robust and internationally high-level research activities are characteristic of the Faculty of Mathematics and Natural Sciences. The Faculty plays a central role in two areas of strength in research at the University of Turku: research in molecular biosciences, and research in ecological interactions and ecological genetics. The Faculty also has an area of research in an advanced development stage mentioned in the University's Strategy: research on discrete mathematics and data security. The Faculty's high level of research is also demonstrated by the high number of international scientific publications and the fact that the Faculty coordinated two Academy of Finland Centres of Excellence in Research in 2011. In addition, there is currently a Nordic Centre of Excellence at the Faculty.

It is hoped that the merger between the departments of geography and geology that took place at the beginning of 2011 will bring synergistic benefits for both research and education. Other structural changes that affected the Faculty in 2011 were caused by the re-organisations of the University's Business and Innovation Development (BID) unit and the international support services, as a result of which certain functions were moved away from the Faculty. During

2011, the preparations about transferring the subject area of statistics from the Faculty of Social Sciences to our Faculty were completed; the transfer took place starting from 1 January 2012.

A project coordinated by Universities Finland (UNIFI) mapped the possibilities for strengthening the operational preconditions of certain central fields of education – including natural sciences – through division of work and cooperation between the universities. The constructive and useful cooperation of the established working group resulted in a report that gives a good overview of the departments in the faculties of natural sciences in Finland. According to the report, the departments have specific profiles. The development suggestions made by the working group are a good opening. This kind of dialogue between the universities should be continued in order to strengthen research and education in the field of natural sciences and in order to further clarify the division of work between the universities.

Reijo Lahti, Dean



	2009	2010	2011
All students	4 236	4 220	3 834
New degree students	525	509	474
Master's degrees	148	188	176
Doctoral degrees	49	32	40
Staff (FTE)	624	602	613

FACULTY OF MEDICINE

Quality of education and research

The Faculty is a National Centre of Excellence in University Education. The Faculty met the quantitative targets for the number of undergraduate and postgraduate degrees awarded. As regards doctoral degrees, the target was exceeded. There were eight graduate schools in the Faculty.

The Faculty's research activities and researchers are at a scientifically high level. For example, the Academy of Finland Board appointed Professor of Cardiovascular Medicine Olli Raitakari as an Academy Professor for the period 2012–2016. Of the six areas of strength in research defined in the University's Strategy, the Faculty of Medicine is central in the research on molecular biosciences as well as in cardiovascular and metabolic research. Moreover, two Academy of Finland Centres of Excellence continue at the Faculty: the Centre of Excellence in Host Defence Research, and the Centre of Excellence in Molecular Imaging in Cardiovascular and Metabolic Research. The PET Centre coordinates the last-mentioned programme.

The Faculty has been decentralising its clinical teaching for several years, especially to Satakunta. The Faculty also agreed on teaching

cooperation with the Vaasa Hospital District in 2011. Lecture and small group teaching was started on a small scale in Swedish in the preclinical stage.

The degree programme in health biosciences, which started in 1998 as the first multidisciplinary degree programme in the field of biosciences in Finland, became the responsibility of the Faculty of Medicine in its entirety at the beginning of 2011.

The upgrading of qualifications project which started in 2003 and in which health care professionals were trained to become doctors finished at the end of 2011. During the project, the Faculty created a teacher tutor system for the support of students in Medicine and Dentistry, for example.

A significant structural change was the re-organisation and merger of two institutes of the Faculty, the Institute of Biomedicine and the Institute of Microbiology and Pathology, at the beginning of 2012. The administrative services centralised into the Faculty's administrative services unit were re-organised into four teams that produce administrative services starting from 1 August 2011.

Tapani Rönnemaa, Dean



	2009	2010	2011
All students	2 604	2 658	2 707
New degree students	152	156	176
Master's degrees	209	212	191
Doctoral degrees	60	61	57
Staff (FTE)	630	640	636

FACULTY OF LAW

Better and more international education

Faculty of Law has been an active participant in the discussion on the suggestion that the student intake should be considerably increased, which was included in the national development plan for education and research 2011-2016. The Faculty held negotiations with other universities, the Ministry of Education and Culture and other interest groups with the aim of strengthening the Faculty's position as a research and teaching unit in the field of law.

The Faculty's doctoral programme that belongs to the University of Turku Graduate School started at the beginning of the academic year, the purpose of which is to organise systematic, high-quality, supervised and efficient doctoral education. The success of the Faculty's doctoral education is demonstrated by the doctoral theses approved in 2011, the number of which exceeded the Faculty's target for doctoral degrees.

As regards the Faculty's undergraduate education, the core of internationalisation is a master's degree programme in English, for which the first students were selected in the autumn. The programme offers a unique opportunity to combine studies in civil and public law from a multidisciplinary perspective.

On 1 April 2011, the Turku Centre for Labour Studies (TCLS) was established at the Faculty of Law. The Centre collaborates closely with the Åbo Akademi University, the Finnish Institute of Occupational Health and a wide network of experts. The Centre realised, advanced and coordinated multidisciplinary labour studies and research as well as working life cooperation.

The Faculty's management of finances corresponded with what was planned although the changes that took place in the financial structures in 2010 were still reflected in the financial monitoring. Business activities and external project funding supported the improvement of the Faculty's basic missions in a vital way. The retirement of the baby boomers and the termination of fixed-term employment periods resulted in a high turnover of the Faculty's staff. The Faculty's internationalisation was strengthened by opening all vacant research and teaching posts for international application, including the Faculty's first tenure track assistant professorship.

Jukka Mähönen, Dean

	2009	2010	2011
All students	1 336	1 320	1 279
New degree students	137	135	140
Master's degrees	83	118	135
Doctoral degrees	3	5	8
Staff (FTE)	65	68	71

FACULTY OF SOCIAL SCIENCES

The impact of research and education on the increase

Historically, social scientists' contribution to the University's third mission has been strong. Particularly visible was the participation by politics researchers on the societal discussion during the parliamentary elections in the spring of 2011.

The success of the anti-bullying programme KiVa for comprehensive schools continued. The programme, which has received awards several times before, was now granted the peace education award named after Helena Kokkonen. KiVa is a project developed at the University of Turku by the psychology subject area and the Centre for Learning Research. In Finland, approximately 2,500 or around 90 per cent of the schools have registered as users of the KiVa sign.

Urban studies, coordinated within the Department of Social Research, has advanced rapidly in education and research. It has brought a package of 25 credits to the degree offerings. In addition, the City of Turku increased its investment in urban studies by funding ten annual research grant periods. Of these, six were granted to researchers at the Faculty.

Strategic funding was used to support the Faculty's internationalisation, which was already intense. The funding in question was used to recruit to the Faculty two postdoctoral researchers with a Turku background who worked abroad and to organise visits by international top researchers. The Public Choice Research Centre and the Turku Research Centre on Well-Being organised summer schools with high-quality international courses and student groups.

The possibilities arising from the departmental structure reform that the Faculty carried out in 2010 were utilised in wide basic study modules that cross subject boundaries, for example. In order to make doctoral education more effective, the Faculty established a doctoral programme with three sub-programmes in accordance with the three departments of the Faculty.

Along with the establishment of the Centre of Statistics, the statistics subject area was transferred to the Faculty of Mathematics and Natural Sciences. The Centre of Statistics is expected to strengthen research and education on statistics in all faculties of the University.

Veli-Matti Ritakallio, Dean



	2009	2010	2011
All students	2 894	2 727	2 245
New degree students	211	171	185
Master's degrees	110	98	159
Doctoral degrees	8	10	12
Staff (FTE)	203	202	191

FACULTY OF EDUCATION

Expert on multiculturalism

The Faculty of Education strengthened its national profile as an expert on and a provider of multicultural and multilingual education. A significant opening was the separate teacher training for people with immigrant backgrounds who work or would like to work in teaching or counselling. In implementing the education, the special expertise of the long-term Fulbright Professor acquired in cooperation with the City of Turku will be utilised. Research on multiculturalism and immigrant education is emerging as a strong part of the Faculty's research.

The Faculty's research on education and learning was evaluated as the first of the University's areas of strength. The appreciative and encouraging international peer-evaluation supported the Faculty's development activities in a major way. The Visiting Professor system has already proved significant in a short period of time. Funding by the Academy of Finland for extensive research projects is still at the head of the field nationally. The doctoral programme in education together with its sub-programmes was strongly linked to the three research centres of the Faculty. The increasing number of international students is taken into account better in the educational offerings and in communications.

The Faculty continued the policy started in previous years in order to hire the staff for on-going employment relationships. The regularisation of the Faculty's research services as well as the improvement and updating of administration as a faculty service that works in collaboration continued strongly.

The Faculty's structural development was continued especially in the Department of Teacher Education by standardising the curricula, strengthening cooperation in teaching as well as in reforming administrative structures and practices. The most important issue was the considerable facility planning at the Rauma unit and the teacher training school that will strengthen the cost and operational effectiveness, which is connected with the change at the Rauma Teacher Training School. With permission granted by the Ministry of Education and Culture, classes 7-9 will be added to Rauma Teacher Training School in 2013.

Marja Vauras, Dean



	2009	2010	2011
All students	2 269	2 279	2 312
New degree students	289	300	293
Master's degrees	161	183	227
Doctoral degrees	8	11	8
Staff (FTE)	184	187	187

TURKU SCHOOL OF ECONOMICS

An interesting place to study, active in networking

In 2011, the attractiveness of the Turku School of Economics as a place to study increased the number of applicants to a new record once again. The separate selection for International Business and the international master's degree programmes further increased their popularity.

The internationality of the operations and the networking of the researchers were further strengthened by allocating strategic funding to international researcher and teacher exchanges especially in the areas of emphasis in research: management accounting, entrepreneurship and business networks. Merging the Pan-European Institute and the Unit for Languages and Business Communication into the Department of Marketing and International Business will strengthen the expertise in regional and cultural behaviour in the teaching of international business.

Our institutional position as an expert and a research centre on the financial development of the economic area of the Baltic Sea and the developing markets of East Europe was strengthened with the joint leadership of the Pan-European Institute and Centrum Balticum. Studying enterprise financing was popular among both busi-

ness and economics students. The study module was strengthened by making the professorship a permanent one, increasing diversified course offerings and by mapping the possibilities of university cooperation, for example, in the Shanghai region.

In order to advance the impact of research, new forms of business life cooperation were created. The Center for Collaborative Research established at the beginning of the year will advance the meeting of research and practice in research projects. In the series of interest group seminars directed at business management, researchers and business management engage in dialogue with the help of ideas from the leading experts in the country. Finally, in the Alumni Keynote Forum, leaders from the top of the business world transfer their knowledge and management experience to current students.

The Turku School of Economics was ranked second in the 2011 Eduniversal Worldwide Business Schools Ranking in the category Excellent Business Schools, which includes 500 business schools that are nationally strong and/or with continental links - this shows that the implementation of our internationalisation strategy has been successful. The processes of international accreditation continued when the School started the re-accreditation process for the eMBA programme.

Satu Lähteenmäki, Director



	2009	2010	2011
All students	2 696	2 974	3 216
New degree students	405	407	419
Master's degrees	171	222	221
Doctoral degrees	14	9	11
Staff (FTE)	345	286	263

Special units of the University of Turku

The special units of the University of Turku outside the faculties engage in research activities, provide education and take care of several University support services. The special units make it possible to construct multidisciplinary research environments and they form an important bridge from the perspectives of regional impact and higher education cooperation.

Functional Foods Forum fff

fff develops health-promoting, high-quality and safe foods from carefully selected ingredients by following the principles of scientific research. fff combines expertise in natural, health and medical sciences with technological, legal and business know-how.

» <http://fff.utu.fi/en>

Business and Innovation Development BID

Business and Innovation Development (BID) is an international expert in business expertise. It offers educational, developmental and research services and its clients and partners consist of companies and other organisations, along with networks of experts. BID began its operation as a special unit at the beginning of 2011.

» <http://www.tse.fi/EN/units/specialunits/bid>

Language Centre

The Language Centre creates preconditions for understanding different cultures and for the University's internationalisation. The Centre takes care of the language and communication studies of the University's faculties as well as organising other necessary language teaching for the University's students.

» <http://kielikeskus.utu.fi/en>

Brahea Centre for Training and Development

Brahea operates in the multidisciplinary and international University of Turku as a provider of services of lifelong learning and an expert unit. The operations of Brahea are based on multidisciplinary information and research activities. It carries out its mission in cooperation with the scholarly communities of the University and an extensive cooperation network.

» <http://brahea.utu.fi/en>

Research Unit for the Sociology of Education RUSE

RUSE carries out social scientific, often internationally comparative research and postgraduate education on education and working life. Central areas of research include the higher education system, research on science, educational policy, different forms of expertise and the mutual relationship between working life and education. There is also the Research Laboratory of Strategic Action (RoSA) that is part of RUSE.

» <http://ruse.utu.fi>

Centre for Maritime Studies CMS

CMS offers academic professional continuing education on the maritime industry and closely related fields as well as research and expert services. CMS has units in Turku, Pori, Rauma and Kotka.

» <http://mkk.utu.fi/en>

Turku PET Centre

Turku PET Centre develops the production of cyclotron isotopes, research activities in clinical positron emission tomography as well as industrial applications at the national level. The PET Centre provides diagnostic PET services for the whole country. The Academy of Finland Centre of Excellence in Molecular Imaging in Cardiovascular and Metabolic Research is located at the PET Centre.

» <http://www.turkupetcentre.fi>

FINCA – Finnish Centre for Astronomy with ESO

FINCA is a national research centre on astronomy that is in charge of Finland's cooperation with European Southern Observatory (ESO). It practices and coordinates high-quality basic and applied research on astronomy and promotes technological development work related to ESO. FINCA participates in doctoral education in astronomy and advances the cooperation of Finnish universities related to ESO.

» <http://finca.utu.fi>

Turku Centre for Computer Science TUCS

TUCS is a joint unit of the University of Turku and Åbo Akademi University that coordinates the universities' education and research as well as business cooperation in the field of information technology. Research areas include algorithmics, discrete mathematics, electronics and data communications, embedded systems, information systems, mathematical modelling and software engineering.

» <http://tucs.fi>

Finland Futures Research Centre

Finland Futures Research Centre is a multidisciplinary, academic research, education and development centre, which studies alternative futures and the challenges and possibilities included in them.

» <http://ffrc.utu.fi/en>

Turku Centre for Biotechnology CBT

CBT is a joint unit of the University of Turku and Åbo Akademi University. The international research centre, which is leading in its field, offers expertise and services related to biotechnology, creates connections between universities and the business community, and has an influence on research, education and teaching in biotechnology. The Central Animal Laboratory of the University of Turku is located in the Centre.

» <http://www.btk.fi>

Centre for Environmental Research of the University of Turku CERUT

The major responsibilities of CERUT are to support and advance multidisciplinary and multi-field environmental education and research, for example, by supporting the field trips of courses organised at the field stations. CERUT includes the Kevo Subarctic Research Institute, the Archipelago Research Institute and the Aerobiology Unit.

» http://www.utu.fi/sivustot/tyyk/index_en.html

In Support of Research and Education

The administrative and other support services of the University of Turku are organised into University Services and University Communications. The aim is for the support services to assist the basic missions of the University, research and education in the best possible way.

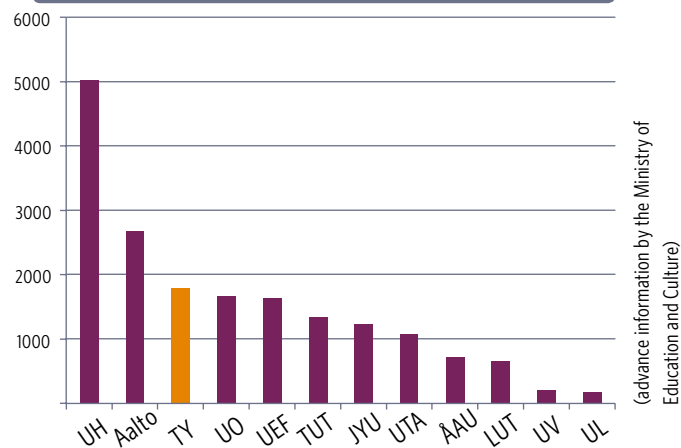
University Services are a general preparatory and executive body of the University Board and the University's management and they produce centralised services for the University.

The Chief Operating Officer is in charge of human resources, university planning and development, the library, academic and student affairs, IT management and general services.

The Chief Financial Officer is in charge of the financial administration, property and facility management, project and innovation services, as well as risk management and legal services.

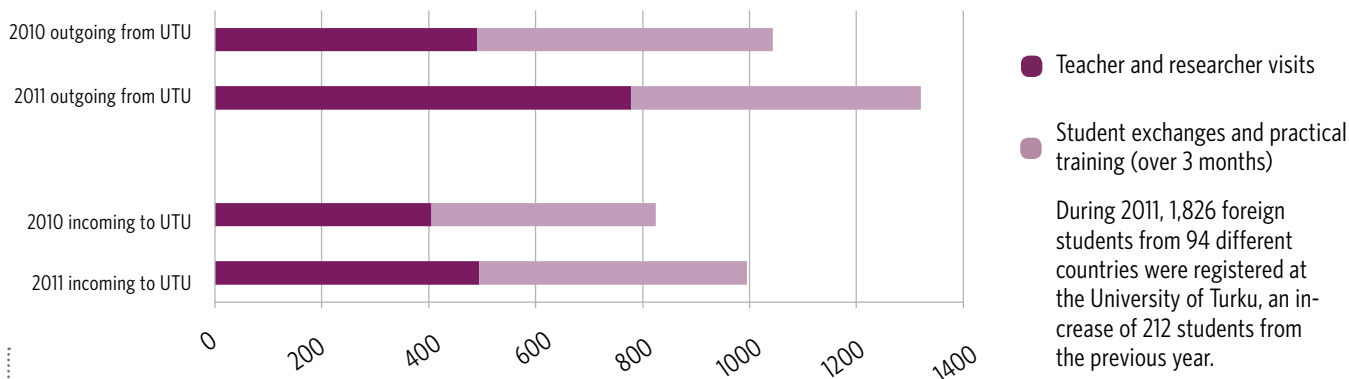
The Communications Director manages a unit that is responsible for the University's internal and external communications. University Communications is responsible for the University's community image, media relations, marketing communications and the joint communication infrastructure. The unit assists the University's management in developing community relations.

International peer-reviewed publications of Finnish universities in 2011



In 2011, the University of Turku researchers had 1,787 international peer-reviewed publications.

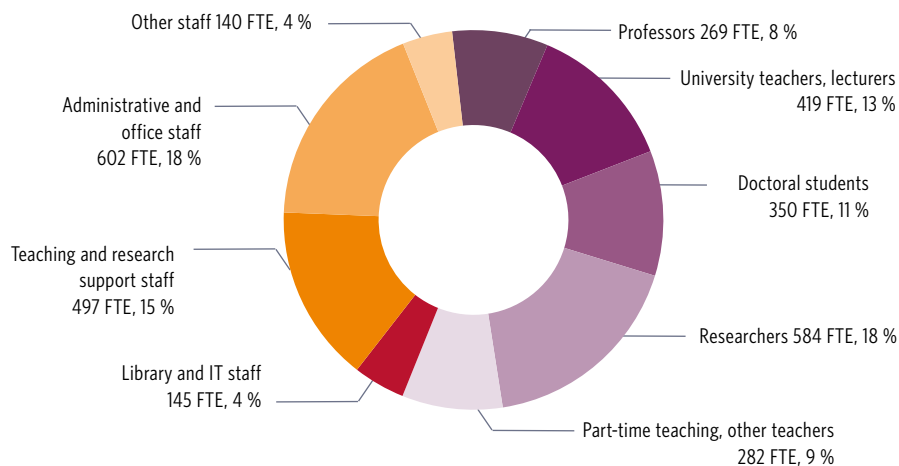
International exchanges in 2010 and 2011



During 2011, 1,826 foreign students from 94 different countries were registered at the University of Turku, an increase of 212 students from the previous year.

University of Turku staff groups

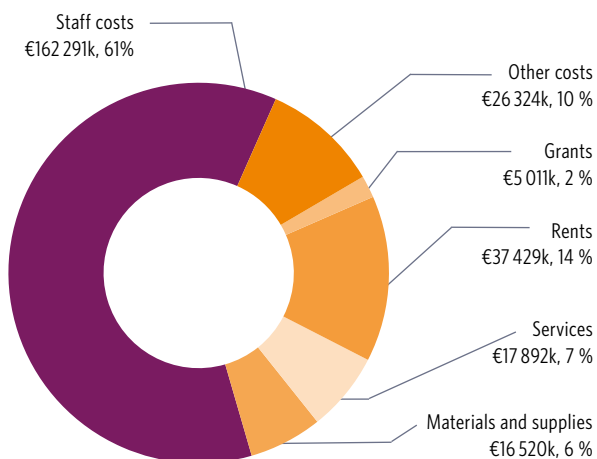
(total 3287 person work years)



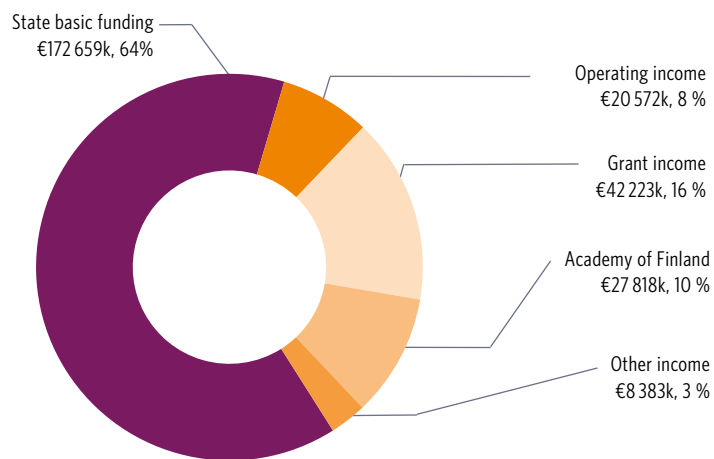
University of Turku finances 2011

The costs of actual operation of the University of Turku amounted to 265.5 million euros and the income was 271.7 million euros in 2011.

Costs of actual operation



Income and grants



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