

# TTÜ RAAMATUKOGU

## TEADUS- JA ARENDUSTEGEVUSE AASTAARUANNE 2014

### 1. Raamatukogu struktuur

#### TTÜ Raamatukogu. Direktor Jüri Järs.

- Bibliograafiaosakond, Signe Jantson
- Infoosakond, Taimi Nurmiste
- IT talitus, Siim Liivand
- Kataloogimisosakond, Tiiu Tammaru
- Komplekteerimisosakond, Kate-Riin Kont
- Majandustalitus, Ants Nukki
- Köitekoda,
- Teadus- ja arendustalitus, Aiki Tibar
- Teenindusosakond, Tuuliki Tõiste

### 2. Raamatukogu teadus- ja arendustegevuse (edaspidi T&A) iseloomustus

#### 2.1. Raamatukogu T&A kirjeldus ja tähtsamad tulemused

Raamatukogul ei ole sihtotstarbeliselt finantseeritavat põhiteemat. Raamatukogu tegevusvaldkondadeks on raamatukogu- ja infoteenindus, raamatukogu- ja infoteaduse alane teadus- ja arendustegevus, infootsingu nõustamine ja lugejakoolitus ning sellest tulenev vastavasisuline arendustöö. Lugejakoolitus toimub ülikooli õppetöö raames. Tegevusvaldkondadeks on veel TTÜ teadusbibliograafia ja Eesti tehnikaartiklite bibliograafia koostamine ning Eesti tehnikahariduse ajaloo uurimine. Raamatukogu tegevusvaldkondade arendamiseks korraldatakse peamiselt rakendus- ja arendusuuringuid.

Raamatukogu direktor Jüri Järs on TTÜ nõukogu ja TTÜ nõukogu teaduskomisjoni liige ning asedirektor Gerda Koidla TTÜ keeltekeskuse nõukogu liige.

Raamatukogu tegevuskulusid ja teadusinformatsiooni hankimist finantseeritakse lisaks TTÜ-le ka Haridus- ja Teadusministeeriumi poolt.

The research and development topics were as follows:

1. The performance of library and information service. Aiki Tibar.
2. Composition of scientific bibliography of Tallinn University of Technology and bibliography of Estonian articles in the field of technology. Signe Jantson.
3. Evolution of engineering thinking and engineering education in Estonia. The role of engineers in building up Estonian state, economy and culture. Vahur Mägi.

4. Management and effectiveness in an organization, governed by public law (based on the example of a university library). Signe Jantson ja Kate-Riin Kont

**Topic: The performance of library and information service.**

In 2014 the research and development areas within the topic were as follows:

- Optimization of the library service, collection allocation and job management. Jüri Järs, Gerda Koidla, Siret Mikumets, Taimi Nurmiste, Tuuliki Tõiste, Aiki Tibar
- E-learning and b-learning information literacy (IL) courses for students. Taimi Nurmiste
- Development of integrated information system and e-library. Jüri Järs
- A study on information needs and information-seeking behaviour of academic and research staff at TUT. Aiki Tibar

Optimization of the library service, collection allocation and job management. Development of library collections is based on the thematic acquisition plan with depth indicators which was improved in 2014 considering evolution of study and research directions of the university. Collection allocation and relevant scheme was optimized due to changes in curricula and structure of TUT. In cooperation with academic staff some textbook collections were looked through to specify number of copies for purchasing and maintaining by the library. Open access collections' control was carried out and a guide for data processing was elaborated. Software for statistical reporting of acquisition activities was complemented.

Needs of academic and research staff for new databases and e-publications were studied and trials of several databases were organized. According to the feedback of users access was obtained to new databases. Training sessions were organized for the university staff about e-book databases and the e-book lending platform (EBL). Entering of records of e-books purchased from the platform EBL to the e-catalogue ESTER was started. A virtual exhibition about e-books for the faculty of civil engineering that is available on the homepage of the library is also a nominee of the Research Library Deed of the Year. The seminar was held on the topic "E-book: publishing, mediation, reading", where experience was shared by Finnish and Estonian experts.

The number of international students studying at TUT is growing and the library offers more user training sessions in English to increase their awareness of library services. Library Basics, a brief introduction of the services, e-catalogue, etc. is available on the library's homepage and visual display screens.

The library cooperates with other Estonian libraries in standardization of librarianship. In 2014 various comments were made on the drafts of standards, such as library statistics and performance indicators.

In 2014 TUT Library celebrated its 95th anniversary: several publications and exhibitions were compiled, various events were organized for readers, students, library staff and cooperation partners. During festive week in December guided tours for the users to the depository of the library were arranged and handling of readers' book orders was explained.

The library was coorganizer of the International Staff Training Week at TUT in the framework of LLP/Erasmus. Library specialists hosted foreign colleagues, gave presentations and information on library services that support research and studies of the university.

E-learning and b-learning information literacy (IL) courses for students. Training information skills is a major part of work of subject librarians of information services department. The most successful IL course for all first-year students is the blended (hybrid) course „Generic information skills“ as part of the obligatory course „Organization of Studies“. 1085 new students passed the course in 2014. The practical part of this course is web-based information search both in the Moodle and in the learning environment, worked out at TUT Library. Subject librarians delivered lectures and exercises for 1617 bachelor students in the amount of 382 hours in 2014. The design and functionality of the TUT Library learning environment was improved.

E-learning IL courses “Specialized Information Retrieval” in specific subjects for master students were offered in Moodle environment. 343 students passed these courses in 2014.

The library course “Chemical Information” (KYF3630) for bachelor and master students of faculty of Chemical and Materials Technology was awarded a prize “Quality mark of e-course in 2014”.

For professional training two subject librarians participated as tutors in the online course for librarians „Basics of Information Literacy”, organized by Tartu University Library.

Development of integrated information system and e-library. The topic covers the design and development of integrated information system and e-library, including working out, testing and putting into practice special software applications.

During summer period 50 personal computers were exchanged with new ones, which allowed to move from using Windows XP to the platform of Windows 7 Enterprise. The administration of personal computers, user accounts and e-mail services was moved from library IT division to the IT department of TUT. One hard disc from the server mass storage and the touch screen of the self-service check-in equipment were exchanged with new ones. For the readers with visual disability the portable magnifying equipment and the special Braille printer were installed.

In connection with publishing the diploma, bachelor and master theses in Digital Collection the modifications were made in database structure, retrieval system, user interface (EST/ENG) and the authentication module and special input form were created. It was started to create the OAI/PMH services for the Digital Collection. The reservation module of information kiosk was improved and the open stack guide was modified for ensuring the connectivity with e-catalogue ESTER. For the TUT Publications database open access interface was created. It was tested by the library staff and based on feedback several corrections and modifications were made in it. The new software environment for user training was worked out. For the exhibitions of TUT Museum (Estonian Power Engineering and Choir Stand) the content of information kiosks was programmed.

Participation in joint activities of ELNET Consortium: development of e-catalogue ESTER, moving from Millennium to the new software platform Sierra, merging Tallinn and Tartu systems, design of „e-varamu“ common information retrieval portal.

The funding application was submitted to the Cultural Heritage Board at the Ministry of Culture for digitizing the historical diploma theses of Tallinn College of Engineering. An over-university survey was carried out for getting information about the necessity of lacking e-resources. On these grounds the access was obtained to ASCE and ASME databases and the number of accessible NPG journals was expanded. The seminar was organized on the topic „The retrieval and administration tools for e-resources: today and tomorrow“. At the 35th IATUL Annual Conference in Espoo Jüri Järs performed presentation „IT-based solutions for users and library staff: case study of the Tallinn University of Technology Library“.

The study on information needs and information-seeking behaviour of academic and research staff at TUT aims to find out various aspects of information seeking. In 2014 the web-based questionnaire survey was conducted. 145 members of the academic and research staff filled in a questionnaire. Data collection continues using in-depth interviews. Results of the present study will be compared with findings of similar study carried out in 2004–2007 to analyse how information-seeking behaviour of academic and research staff has changed.

Main publications:

### 3.2

Järs, J. (2014). IT-based solutions for users and library staff: case study of the Tallinn University of Technology library. // Koidla, G.; Tibar, A. (toim.). Tallinna Tehnikaülikooli raamatukogu töötajate uurimusi ja artikleid 2009–2014 = Studies and articles by the staff of the Tallinn University of Technology Library (20–27). Tallinn: Tallinna Tehnikaülikooli Kirjastus.

Koidla, G.; Nurmiste, T. (2014). Development of the subject librarians system at Tallinn University of Technology library. // Koidla, G.; Tibar, A. (toim.). Tallinna Tehnikaülikooli raamatukogu töötajate uurimusi ja artikleid 2009–2014 = Studies and articles by the staff of the Tallinn University of Technology Library (35–46). Tallinn: Tallinna Tehnikaülikooli Kirjastus.

Marcinek, M.; Heino, K.; Janbicka, A.; **Koidla, G.**; Palmgren, V. (2014). E-learning and b-learning information literacy programs at the science and technology universities in Estonia, Finland, Latvia and Poland. A comparative study. // Koidla, G.; Tibar, A. (toim.). Tallinna Tehnikaülikooli raamatukogu töötajate uurimusi ja artikleid 2009–2014 = Studies and articles by the staff of the Tallinn University of Technology library (47–84). Tallinn: Tallinna Tehnikaülikooli Kirjastus.

Tibar, A. (2014). TTÜ Raamatukogu lugejate rahulolu uuring 2012. // Koidla, G.; Tibar, A. (toim.). Tallinna Tehnikaülikooli raamatukogu töötajate uurimusi ja artikleid 2009–2014 = Studies and articles by the staff of the Tallinn University of Technology Library (137–169). Tallinn: Tallinna Tehnikaülikooli Kirjastus.

Tibar, A. (2014). TTÜ õppejõudude ja teadurite ingovajaduste ja infootsikäitumise uuring 2014. // Koidla, G.; Tibar, A. (toim.). Tallinna Tehnikaülikooli raamatukogu töötajate uurimusi ja artikleid 2009–2014 = Studies and articles by the staff of the Tallinn University of Technology Library (170–183). Tallinn: Tallinna Tehnikaülikooli Kirjastus.

### **Topic: Composition of scientific bibliography of Tallinn University of Technology and bibliography of Estonian articles in the field of technology.**

Following databases are generated: publications of TUT and publications about TUT and its staff (PUBL); biographical information about researchers and lectures of TUT. In 2014 open access interface of PUBL database was tested. Since 2014 Estonian subject thesaurus is used for indexing of publications, a guide was compiled for retrospective indexing.

In co-operation with Estonian libraries TUT Library takes part in compiling the bibliographic database of Estonian articles (ISE). TUT Library is also responsible for management of TEHNIKA scope of the ISE database. Adding bibliographic description, classification and subject indexing of publications in databases is continuing. 2647 new records were entered into database PUBL in 2014.

TUT Library is the final confirmer of TUT publication descriptions in Estonian Research Information System (ETIS). 1780 publication descriptions were confirmed in 2014.

Bibliographies that were compiled and published in 2014 include a list of TUT publications of 2013 in the yearbook of TUT; a list of TUT Library publications of 2005–2014 in the annals of the library; lists of publications of several professors in their biographical books.

Main publications:

3.3

[Bobrov, K.] (2014). Bibliograafia. // Hetked ja aastad / Hiie Hinrikus (359–411). Tallinn: Tallinna Tehnikaülikooli Kirjastus.

Vahtra, M. (2014). Karl Tihase (1914–2005) : bibliograafia. // Karl Tihase 100 : mälestused = Карл Тихазе 100 : воспоминания (77–85). Tallinn: Tallinna Tehnikaülikooli Kirjastus.

Kahro, E.; Piik, M.; Vahtra, M. (2014). Publikatsioonid. // Tallinna Tehnikaülikooli aastaraamat 2013 (371–507). Tallinn: Tallinna Tehnikaülikooli Kirjastus.

4.2

Bobrov, K.; Jantson, S. (koost.) (2014). Mihkel Veiderma : bibliograafia. Tallinn: Tallinna Tehnikaülikooli Kirjastus.

**Topic: Evolution of engineering thinking and engineering education in Estonia. Role of engineers in building up Estonian state, economy and culture**

The research explained the role of the engineering school in building up Estonian state. Tallinn College of Engineering was founded to provide engineering education in various disciplines. Lecturers were Estonian engineers and scientists who had obtained their diplomas in Riga, St. Petersburg and Germany. National Testing Centre was formed for advancing technological research. There was growing demand for well-trained engineers in restructuring and modernisation of industry. College of Engineering was reorganized into technological university. Experience of England, France, Germany and Switzerland was used in working out new teaching programmes.

Research results were published in a journal and collections, as well as presented at international conferences on history of science and technology.

Main publications:

1.2

Mägi, V. (2014). The role of State Central Laboratory and National Testing Centre in advancing technology studies in the Republic of Estonia. // *Acta Baltica Historiae et Philosophiae Scientiarum*, 2 (1), 111–118.

3.4

Mägi, V (2014). University as technological knowledge disseminator in Estonia. In: *Scientific cosmopolitanism and local cultures: religions, ideologies, societies: 5th International Conference of the European Society for the History of Science: proceedings, Athens, 1-3 November 2012: 5th International Conference of the European Society for the History of Science, Athens, 1–3 November 2012. Athens: National Hellenic Research Foundation/Institute of Historical Research/Programme of History, 2014, 576–582.*

## 5.2

Mägi, V. (2014). Technological trends in Estonian industry during and after World War I and II. In: Technology in times of transition : 41st ICOHTEC Symposium : programme & abstracts, 29 July–3 August 2014, Brasov, Romania, Transilvania University of Brasov. Brasov: Lux Libris Publishing House, 2014, 159.

### **Topic: Management and effectiveness in an organization, governed by public law (based on the example of a university library)**

In 2014 the analysis of the questionnaire survey (2011-2012) in four university libraries focused on the problems of work organization, organizational commitment and satisfaction with salary. The survey results were published as journal articles. The article on the study (2012) of cataloguing process using time-driven activity-based costing method in two university libraries will be published in the journal *Cataloging & Classification Quarterly* (Taylor & Francis). Results of the study (2013) of acquisition process were presented at conferences and also article will be published in the journal *Collection Management*. The study of service process using observation method continues in two university libraries. Kate-Riin Kont is planning to publish a review article from the past to the present on the means of cost optimization and measurement of acquisition process by the invitation of the journal *Collection Building* (Emerald).

Main publications:

#### 1.1

Kont, K.-R.; Jantson, S. (2014). A Study of Salary Constraints in Estonian University Libraries. // *Slavic and East European Information Resources*, 15 (1-2), 60–79.

Kont, K.-R.; Jantson, S. (2014). Organization of work in Estonian university libraries: A review and survey. // *New Library World*, 115 (9-10), 452–470.

Kont, K.-R.; Jantson, S. (2014). Organizational Commitment in Estonian University Libraries: A Review and Survey. // *New Review of Academic Librarianship*, 20 (3), 296–316.

### **2.6 T&A-ga seotud tunnustused, ülevaade teaduskorralduslikust tegevusest, teadlasmobiilsusest.**

#### **Teadus- ja arendustööga seotud tunnustused:**

Maie Pihlakas – Hariduse Infotehnoloogia Sihtasutuse (HITSA) innovatsioonikeskuse “E-kursuse kvaliteedimärk 2014” Keemiainformaatika kursuse eest.

Helje Riives – Eesti Raamatukoguhoidjate Ühingu ja TLÜ Akadeemilise Raamatukogu tunnustus väljaande “Tallinna Tehnikaülikoolis kaitstud väitekirjad 1936–2000 : bibliograafia” eest.

#### **Ülevaade teaduskorralduslikust tegevusest:**

TTÜ on mitmete rahvusvaheliste koostöövõrgustike liige. Raamatukogu osaleb kolmes koostöövõrgustikus raamatukogude töögrupis:

- Konsortsium BALTECH (Nordic/Baltic Universities Consortium in Science and Technology);
- UNICA (Institutional Network of the Universities from the Capitals of Europe).

Gerda Koidla – UNICA Scholarly Communication juhtgrupi liige.

- International Association of Law Libraries (IALL). TTÜ Raamatukogu kuulub IALL-i CLRCLIS (Consortium of Legal Resource Centres and Legal Information Specialist) vahendusel.

Raamatukogu on Bibliotheca Baltica (Baltic Sea Area Libraries Association) kollektiivliige.

Raamatukogu töötajad on järgmiste rahvusvaheliste organisatsioonide liikmed:

Signe Jantson – Nordic Research School in Library and Information Science (NORSLIS)

Signe Jantson, Marita Paas – The Nordic-Baltic-Russian Network on the History of Books, Libraries and Reading (HIBOLIRE)

Jüri Järs – International Association of Users and Developers of Electronic Libraries and New Information Technologies

Jüri Järs – European Library Automation Group (ELAG)

Jüri Järs – International Association of Scientific and Technological University Libraries (IATUL) (TTÜR esindaja)

Jüri Järs – IATUL Special Interest Group on Library Organisation and Quality Management (IATUL SIG-LOQUM)

Jüri Järs, Gerda Koidla – European Association of Distance Teaching Universities. Library and Learning Support Working Group (EADTU)

Kate-Riin Kont – EBSCO Academic Advisory Board member

Vahur Mägi – Rahvusvaheline Tehnikaajaloo Komitee (ICOHTEC)

Raamatukogu 18 töötajat osales 35 Eesti-sisese komisjoni/töörühma, nõukogu jms. tegevuses:

- Eesti Raamatukoguvõrgu Konsortsiumi (ELNET Konsortsium) töörühmade töös osales 11 töötajat:

TTÜ volitatud esindaja ELNET Konsortsium – Jüri Järs

andmebaas ISE töörühm – Signe Jantson

digiteerimise ja mikrofilmimise töörühm – Katri Mägi

e-raamatu ümarlaud – Kate-Riin Kont, Taimi Nurmiste

kataloogimise ja nimenormandmete töörühm – Tiiu Tammaru, Viivi Verte

ühishangete töörühm – Kate-Riin Kont, Taimi Nurmiste

liigitamise ja märksõnastamise töörühm – Malle Lang

elektrooniliste väljaannete komplekteerimise koordineerimise töörühm – Jüri Järs, Kate-Riin Kont, Taimi Nurmiste

haldurite kogu – Ave Janu, Siim Liivand, Tuuliki Tõiste

e-varamu portaali töörühm – Siim Liivand

- Eesti Raamatukoguhoidjate Ühingu (ERÜ) töös osales 9 töötajat:

juhatusel liige – Ave Janu (esinaine asetäitja)

kogude toimikond – Kate-Riin Kont (toimikonna juht), Raina Rohumaa

ERÜ usaldusisik – Gerda Koidla

Eesti raamatukogunduse biograafilise andmebaasi toimetuskolleegium – Marita Paas

terminoloogiatoimikond – Kate-Riin Kont

turunduse töögrupp – Ave Janu

vanaraamatu toimkond – Marita Paas  
raamatukoguhoidja kutse omistamise komisjon – Jüri Järs (tööandjate esindaja)  
uue mõtte töörühm – Signe Jantson, Tuuliki Tõiste  
noorteklubi – Maris Nool

- Eesti Hoiuraamatukogu Nõukogu – Hilja Rikmann (juhataja asetäitja)
- HTMi Teadusraamatukogude Nõukogu – Jüri Järs (aseesimees)
- Ajakirja “Raamatukogu” toimetuskolleegium – Gerda Koidla
- Eesti Rahvusraamatukogu standardimise eksperdinõukogu – Aiki Tibar
- Eesti Lugemisühing – Signe Jantson
- Tallinna Ülikooli Infoteaduste instituudi nõukogu – Jüri Järs
- Tallinna Ülikooli Sotsiaalteaduste valdkonna nõukogu – Signe Jantson
- Tartu Ülikooli Kultuuriteooria tippkeskuse uurimisrühm – Marita Paas
- Akadeemiline Ajalooselts – Marita Paas
- Teadusajaloo ja Teadusfilosoofia Eesti Ühendus – Vahur Mägi
- Eesti teaduse biograafilise leksikoni ekspert tehnikateaduste alal – Vahur Mägi
- TTÜ nõukogu – Jüri Järs
- TTÜ nõukogu teaduskomisjon – Jüri Järs
- TTÜ Raamatukogu teadusnõukogu – Jüri Järs (esimees), Gerda Koidla, Kate-Riin Kont, Taimi Nurmiste, Tuuliki Tõiste
- TTÜ kirjastuse kirjastusnõukogu – Jüri Järs, Vahur Mägi
- TTÜ muuseumi nõukoda – Jüri Järs
- TTÜ keeltekeskuse nõukogu liige – Gerda Koidla

**Teaduskonverentside ja muude ürituste korraldamine:**

Gerda Koidla – TTÜ ERASMUS-e rahvusvahelise nädala 31.03–4.04.2014 korraldustoimkonna liige ja raamatukogupäeva korraldaja 3. aprillil.

Gerda Koidla – TTÜ Raamatukogu 95. aastapäeva ürituste peakorraldaja.

Jüri Järs  
Direktor