

**TTÜ RAAMATUKOGU**  
**TEADUS- JA ARENDUSTEGEVUSE AASTAARUANNE 2013**

## **1. Struktuur**

### **TTÜ Raamatukogu, Tallinn University of Technology Library**

#### **Direktor Jüri Järs**

- Bibliograafiaosakond, Department of Bibliography, Signe Jantson
- Infoosakond, Information Services Department, Taimi Nurmiste
- IT talitus, IT Division, Siim Liivand
- Kataloogimisosakond, Cataloguing Department, Tiiu Tammaru
- Komplekteerimisosakond, Acquisition Department, Kate-Riin Kont
- Majandustalitus, Operations Division, Ants Nukki
- Kõitekoda, Bindery
- Teadus- ja arendustalitus, Research and Development Division, Aiki Tibar
- Teenindusosakond, Library Services Department, 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.

Raamatukogu teadus- ja arendustööde teemad. The research and development topics were as follows:

1. Raamatukogu- ja infoteeninduse tulemuslikkus. The efficiency of library and information services. Juht: Aiki Tibar.
2. TTÜ teadusbibliograafia ja Eesti tehnikaartiklite bibliograafia koostamine. Composition of scientific bibliography of Tallinn University of Technology and bibliography of Estonian articles in the field of technology. Juht: Signe Jantson.
3. Tehnilise mõtte ja tehnikahariduse areng Eestis. Insenerkonna osa Eesti riigi ülesehituses, majanduses ja kultuuris. Evolution of engineering thinking and engineering education in

Estonia. The role of engineers in building up Estonian state, economy and culture. Vahur Mägi.

4. Juhtimine ja efektiivsus avalik-õiguslikus organisatsioonis (ülikooliraamatukogu näitel). Management and effectiveness in a public organisation (based on the example of a university library). Signe Jantson ja Kate-Riin Kont.

**Topic: The efficiency of library and information services.**

In 2013 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. Leader Taimi Nurmiste
- Development of integrated information system and e-library. Leader 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 and several innovations were based on the results of the user satisfaction survey of 2012. Improvements in the reliability of printing service and the relevant guidelines were made in co-operation with service provider Overall Eesti Ltd. Reservation system of group and individual study rooms was updated, new application was worked out and changes were made in guidelines. Lighting was improved at scanning devices, changes were made in summer opening hours, various user training sessions were organized in addition to study plan.

During March 11-22 a study was conducted to measure seating occupancy rate at the library. The study results indicated that there were enough seats and computers in open reading area. Additional seats were placed to group and individual study rooms.

In acquisition of scientific literature and textbooks the library specialists consulted with academic and research staff at TUT to specify titles and the number of copies. Some changes were made in allocation of textbook collection and the relevant scheme. The full collection of TUT transactions was gathered and placed at the 2nd floor of the library.

New instructions were worked out for more efficient job management that regulate the work with readers, reservation of study rooms, procedures for checking various collections, etc. Software was developed for preserving and searching data about exchange of books and journals with foreign libraries.

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“. 1163 new students passed the course in 2013. The practical part of this course is a web-based information search in the Moodle environment (641 students passed this part) and in the learning environment, worked out at TUT Library (516 students passed this part). Subject librarians delivered lectures and exercises for 1544 bachelor students in the amount of 377 hours in 2013.

E-learning IL courses “Specialized Information Retrieval” in specific subjects for master students were offered in Moodle environment. 436 students passed these courses in 2013.

The library course “Chemical Information” (KYF3630) for bachelor and master students of the faculty of Chemical and Materials Technology was submitted to the competition “Quality mark of e-course in 2014”.

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

The arrangements were made for moving the administration of computers, user accounts and e-mail services from library IT division to the IT department of TUT. In December 33 computers at the readers area were moved into the university INTRO domain. For improving the WiFi transmission it was manually adjusted the strength and frequency of the transmitters. The UPS was installed for audio information system, which guarantees the work of of the system during power breakdown. For ensuring silent work environment at the readers area the colour printer was moved into computer class. For the readers with visual disability the magnifying equipment and scanning workstation with audio output were installed.

The new web-based internal module of the publications database was tested and the proposals for software improvement were compiled. The QR code was implemented for reserving individual and groupworking rooms via smart mobile phone. The self-service check-in workstation software was upgraded (restart via remote access, queue numbers in the list of returned books, printer error messages by e-mail). For the gallery exhibition of the museum special workstations (kiosks) were created and tuned up. The requirements and design possibilities of the mediabank of TUT (at the museum) were discussed.

Participation in joint activities of ELNET Consortium: development of e-catalogue ESTER (system parameters, new icons, design of advanced search, Javascript and mobile applications etc.), introducing new releases of Millennium software and summarizing the results of user satisfaction study of e-catalogue. The preparations were made for merging Tallinn and Tartu systems. At the ELNET working group of information retrieval portal the documents for public procurement tender were prepared.

The aim of the study on information needs and information-seeking behaviour of academic and research staff at TUT is to analyse research and teaching information needs and patterns of information seeking, and to compare results with the findings of a similar study carried out in 2004-2007. Data collection is based on a questionnaire survey and interviews. In 2013 the questionnaire guide was developed in co-operation with some researchers at TUT and subject specialists of the library. A questionnaire survey will be carried out in the beginning of 2014.

Main publications:

6.3.

- Järs, J. Raamatukogu // Tallinna Tehnikaülikooli aastaraamat 2012. [Tallinn] : TTÜ kirjastus, 2013, lk. 221-226. (Tallinna Tehnikaülikooli aastaraamat, 20).
- Tibar, A. TTÜ Raamatukogu ja lugejad : neli aastat uues majas. // Raamatukogu (2013) 5, lk. 29-31.

6.6.

- Nurmiste, T. E-raamatud - mitte üksnes juturaamatud. // *Mente et Manu* (2013) november/detsember, lk. 18-19.
- Tibar, A. Kui rahul olen ma ülikooli raamatukoguga? Uuendused TTÜ raamatukogus: mis on tehtud ja mis on teksil. // *Studioosus* (2013) märts, lk. 12-13.

- Tibar, A. TTÜ raamatukogu lugejate rahulolu uuring. // *Mente et Manu* (2013) veebruar, lk. 8.

**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 lecturers of TUT (ISIK). Necessary software applications and retrieval systems are developed. In co-operation with 12 Estonian libraries TUT Library takes part in compiling the 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. 2630 new records were entered into database PUBL in 2013.

TUT Library is the final confirmer of TUT publication descriptions in Estonian Research Information System (ETIS). 2028 publication descriptions were confirmed in 2013.

Some bibliographies that were compiled and published in 2013 include a list of TUT publications of 2012 in the yearbook of TUT; lists of publications of two professors in their biographical books; a bibliography of theses accepted by TUT during 1936-2000.

Main publications:

3.3.

- Prööm, R., Piik, M. Teaduspublikatsioonid. // Kulbach, V. Ühe ehitusinseneri meenutusi käidud teedelt. Tallinn : TTÜ kirjastus, 2013, lk. 124-160.
- Kahro, E., Piik, M., Vahtra, M. (koost.). Publikatsioonid : [bibliograafianimestik]. // Tallinna Tehnikaülikooli aastaraamat 2012. [Tallinn] : TTÜ kirjastus, 2013. lk. 335-485. (Tallinna Tehnikaülikooli aastaraamat, 20).

4.2.

- Riives, H. (koost.). Tallinna Tehnikaülikoolis kaitstud väitekirjad 1936-2000 : bibliograafia = Theses accepted by Tallinn University of Technology 1936-2000 : bibliography. Tallinn : [TTÜ kirjastus], 2013. 174 lk. (Tallinna Tehnikaülikooli Raamatukogu töid. B, 15).

6.4.

- Gerndorf, K., **Bobrov, K., Prööm, R.** [et al.] (koost.). Raoul Üksvärav : publikatsioonid. Organisatsioon ja juhtimine 50. Meenutused algaastaist. Tallinn : TTÜ kirjastus, 2013. 178 lk.

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

The research identified factors of development of Estonian language of technology. The rise of Estonian as a language of higher education and science in the country emerged during the 1920s and 1930s. Faculty members of the Tallinn School of Technology then published the first textbooks composed in the Estonian language for students of technology. The Estonian Society for Technology and The Estonian Association of Engineers became seriously involved in linguistic activities and published literature on technology. Journals of technology introduced innovations in the lexicon of technology to the general public.

Research results were published in journals and collections, as well as presented at an international congress in Manchester, England.

Main publications:

1.2.

- Mägi, V. Estonian language of technology as a factor supporting the evolution of engineering thinking. // *Acta Baltica historiae et philosophiae scientiarum* (2013) Vol. 1, No. 1 (Spring 2013), p. 75-94.

6.3.

- Mägi, V. Riia Tehnikaülikool Eesti insenerihariduse arenguloos. // Tallinna Tehnikaülikooli aastaraamat 2012. [Tallinn] : TTÜ kirjastus, 2013, lk. 47-51. (Tallinna Tehnikaülikooli aastaraamat, 20).
- Mägi, V. Eesti tehnikakeel ja tehnikaraamat. // Tallinna Tehnikaülikooli aastaraamat 2012. [Tallinn] : TTÜ kirjastus, 2013, lk. 247-251. (Tallinna Tehnikaülikooli aastaraamat, 20).
- Mägi, V. Mäeinsener Artur Aleksander Linari-Linholm. // *Inseneeria* (2013) 2, lk. 46-47.

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

The aim of the research topic is to find out possibilities and necessity for performance management, more effective work organization and management of finances in organizations governed by public law. Within the framework of the topic the following methods and indicators are used: contemporary methods of finance and performance management in an organization governed by public law (as a university library); effectiveness – activity-based costing and activity-based management, time-driven activity-based costing, method of complex analysis, its application in an organization governed by public law; total quality management (TQM) in a public sector; effectiveness of research results and quality in an university governed by public law; as well as indicators of the employees (satisfaction, performance, development of skills, motivation and commitment). The topic is connected with doctoral studies of Kate-Riin Kont (Tallinn University) and Signe Jantson (Tallinn University of Technology).

In 2013 the data of the questionnaire survey in four university libraries (2011-2012) was analysed. Attitudes of librarians towards job satisfaction, work organization, learning, self-development and assessment of performance were brought out. In 2012-2013 processes of acquisition and cataloguing in two university libraries were studied. In 2013 a study of service process was started and continues in 2014.

Main publications:

1.1.

- Kont, K-R. Cost accounting and scientific management in libraries: a historical overview. // *Journal of Management History*, (2013) 19(2), 225 - 240.

1.2.

- Kont, K.-R.; Jantson, S. Intra-organizational career in Estonian University libraries: a necessity and a possibility? // *Library Review*, (2013) 62(8/9), 492 – 507.
- Kont, K.-R., Jantson, S. Library Employees' Attitudes Towards the Measurement and Appraisal of Their Work Performance: Study in Estonian University Libraries. // *Library Management*, (2013) 34(6/7), 521 -537.

- Kont, K.-R.; Jantson, S. Division of Labor and Coordination, Intra-organizational Career and Salary Fairness: Study in Estonian University Libraries. // Library Management, (2013) 34(6/7), 415 - 432.

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

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

ELNET Konsortsiumi tänukirja pälvis aktiivsuse, initsiatiivikuse ja tulemuste eest laenusmooduli tõlkimisel ja veebikataloogi arendamisel Ave Janu.

### **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 on 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)

Vahur Mägi – Rahvusvaheline Tehnikaajaloo Komitee (ICOHTEC)

### Raamatukogu 17 töötajat osales 37 Eesti-sisese komisjoni/töörühma, nõukogu jms. tegevuses:

- Eesti Raamatukoguvõrgu Konsortsiumi (ELNET Konsortsium) töörühmade töös osales 12 töötajat:
  - TTÜ volitatud esindaja ELNET Konsortsium – Jüri Järs
  - andmebaas ISE töörühm – Signe Jantson
  - digiteerimise ja mikrofilmimise töörühm – Katri Mägi
  - kataloogimise ja nimenormandmete töörühm – Tiiu Tammaru, Viivi Verte
  - teenuste töörühm – Ave Janu (töörühma juht), Hilja Rikmann, Tuuliki Tõiste
  - ühishangete töörühm – Kate-Riin Kont, Taimi Nurmiste

e-raamatu ümarlaud – Kate-Riin Kont, Taimi Nurmiste  
liigitamise ja märksõnastamise töörühm – Malle Lang  
haldurite kogu – Ave Janu, Siim Liivand  
ühisportaali töörühm – Siim Liivand

- Eesti Raamatukoguhoidjate Ühingu (ERÜ) töös osales 6 töötajat:  
juhatuse liige – Ave Janu (esinaine asetäitja)  
kogude toimikond – Kate-Riin Kont, Raina Rohumaa  
ERÜ usaldusisik – Gerda Koidla  
Eesti raamatukogunduse biograafilise andmebaasi toimetuskolleegium – Marita Paas  
terminoloogiatoimikond – Kate-Riin Kont  
vanaraamatu toimikond – Marita Paas,  
raamatukoguhoidja kutse omistamise komisjon – Jüri Järs (tööandjate esindaja)  
turunduse töörühm – Ave Janu
- 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 Rahvusraamatukogu juures oleva Autoriõiguse töörühm – Tuuliki Tõiste
- Eesti Lugemisühing – Signe Jantson
- Tallinna Ülikooli Infoteaduste instituudi nõukogu – Jüri Järs
- Tallinna Ülikooli Infoteaduste instituudi infojuhtimise magistriõppekava nõukogu – Tuuliki Tõiste
- 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 15.-19. märts 2013 korraldus-  
toimkonna liige ja raamatukogupäeva korraldamine 18. aprillil

Gerda Koidla – TTÜ Raamatukogu ja Läti Ülikooli Raamatukogu seminari ning ümarlaua  
korraldamine 3.-4. juunil 2013 TTÜ-s

## Ülevaade teadlasmobiilsusest

Raamatukogu töötajad viibisid 12 korral lähetuses välismaal:

1. Anneli Viljat 3.-5.12.2013 Brüsselis Euroopa Dokumendikeskuste seminaril
2. Mare Soidla 14.-20.09.2013 Hispaanias Barcelona Ülikoolis konverentsil „32nd Annual Course in International Law and Legal Information“ (Erasmuse programmi stipendium)
3. Kate-Riin Kont 19.-26.07.2013 Suurbritannias York'i Ülikoolis ettekandega konverentsil „10th Northumbria International Conference on Performance Measurement in Libraries and Information Services“ ning tutvumas York'i Ülikooli raamatukoguga ja York Minister'i raamatukogu ning arhiivi tööga (Erasmuse programmi stipendium)
4. Vahur Mägi 22.-27.07.2013 Suurbritannias Manchesteri Ülikoolis ettekandega teaduse, tehnika ja meditsiini ajaloo kongressil (ICHSTM 2013)
5. Signe Jantson 30.05-05.06.2013 Portugalis, Lissabonis ettekandega konverentsil „The International Conference on Education and New Developments“ (Erasmuse programmi stipendium)
6. Kate-Riin Kont 28.05-04.06.2013 Portugalis, Lissabonis ettekandega konverentsil „The International Conference on Education and New Developments“ (Erasmuse programmi stipendium)
- 7.-8. Maris Nool ja Marje Võrk 27.-31.05.2013 Soomes, Tampere koolitusel „International Week at Tampere University Applied Sciences“ (Erasmuse programmi stipendium)
9. Signe Jantson 03.-11.04.2013 Jaapanis, Osakas ettekandega konverentsil „The Third Asian Conference on Literature and Librarianship (LibrAsia 2013). (DoRa stipendium)
10. Kate-Riin Kont 01.-11.04. 2013 Jaapanis, Osakas ettekandega konverentsil „The Third Asian Conference on Literature and Librarianship (LibrAsia 2013). (DoRa stipendium)
11. Kate-Riin Kont 04.-11.03.2013 Islandil, Reykjavikis ettekandega konverentsil „Nordic Educational Research Association 41st Conference“. (DoRa stipendium)
12. Anneli Viljat 14.-15.02.2013 EDC-de (European Documentation Centres) ja ED (Europe Direct) teabekeskuste koolitusreis Soome

Jüri Järs

Raamatukogu direktor