



RIGA TECHNICAL
UNIVERSITY

Report of Convener on CBG Study Program Working Group

3rd CBG General meeting *29-30 Jan. Tallinn*

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RTU HEP and AT Center University of Latvia

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Financial Support for new study program creation

- **Aim and name of activity - To Reduce Fragmentation of Study Programs and to Strengthen Sharing of Resources**
- To close outdated programs and to open new ones sharing resources
- Joint study programs are most Welcome
- Funding only **to create program**, not to perform studies
- Funding for studies must be found by traditional means of study funding

Financial Support for new study program creation

- EU and Latvian government funding
- Total funding- 7142 000 EUR
- 100 000 EUR for one Study Program creation
- Dedicated funding to meet new Smart Specialization Strategy goals
- Special funding for Higher Education Institutions
- Activities must be performed until 30 November 2023.
- **Doctoral study program creation proposal submitted!**

Study program creation criteria

- Partners for project creation are higher education or scientific institutions with defined activities
- Project consortium has to prove its competences to perform the studies
- Consortium needs to prove its capacity for infrastructure

Study program creation criteria

- Student mobility is a eligibility criteria
- Interdisciplinarity
- Innovation in lecturing
- Common vision for study process development
- Impact from study program realisation
- Sustainability of results – study program
- Study programs must align with strategic specialization priorities:
 1. **Knowledge-intensive bio-economy**
 2. **Biomedicine, medical technologies, bio-pharmacy and biotechnologies**
 3. **Smart materials, technology and engineering systems**
 4. **Smart energy**
 5. **Information and communication technologies**

Funding dedicated for:

- Development/creation of study program
- Licensing
- PhD program approbation including experience exchange
- Licensing at EQAR
- International publicity measures
- Project management and realization costs
- Outreach and publicity
- National funding, but not limiting the choice of experts and study courses at national level

Experts

- RTU:
 - Academician Dr. habil. sc. ing. Leonīds Ribickis
 - Asoc. Prof. Toms Torims
 - Prof. Jurijs Dehtjars
 - Prof. Aleksejs Kataševs
 - Dr.Sc.Ing. Kalvis Kravalis
 - M.Sc. Viesturs Veckalns
- UL:
 - Prof. Dr. Phil. Mārcis Auziņš
 - Dr. Phys. Guntars Kitenbergs
 - Asoc. Prof. Dr. Phil. Vjačeslavs Kasčejevs
- Tallinn University of Technology
 - Prof. Dr. Phil. Jaan Kalda
 - Asoc. Prof., Dr. Sc. Ing. Fjodor Sergejev
- Vilnius University:
 - Dr. Phil. Aurelijus Rinkevicius
 - Dr. Phil. Andrius Juodagalvis
- University of Tartu
 - Dr. Phil. Stefan Groote
 - Dr. Phil. Laur Järv
- Kaunas Technical University
 - Prof. Sigitas Tamulevičius
 - Assoc. prof. Kristina Ukvalbergienė
 - Prof. Leonas Balaševičius
- National Institute of Chemical Physics and Biophysics (NICPB), Tallin
 - Dr. Phys. Andi Hektor
- CERN:
 - Dr. Maurizio Vretenar
 - Dr. Christoph Schaefer
- Industry representative:
 - Dr. Vladimir Gostillo - Chairman of the Board of SIA "Baltic Scientific Instruments"

Activities

- Creation of work group to determine necessary skills, structure and development plan for the study program
- Development of the description, structure and realization plan of the new program and study courses
- Curriculum descriptions of the study program
- Licensing of the new study program
- Development of lecture materials for the creation of new study courses

Activities

- Approbation of the study program
- Experience exchange activities for the study program work group on the results of the study program approbation
- Accreditation of the corresponding study direction at EQAR Agency
- International publicity of the new study program developed within the frame of the project

Timetable

- Approbation should start in the middle of 2021
- Activities should end at the end of 2022
- Development of the program can start from end of 2019
- Licensing is foreseen for the beginning of the 2021

Objectives

- Motivation
- How to attract students to the program
 - To show excellence of the program
 - Big names
 - Future prospects
- Skills and competences acquired
- Student mobility
- Legal issues – double diplomas, bilateral agreements

Objectives

- Distance learning
- Modular study program
- Innovative study process
- CERN summer schools
- Mechanism for international student recruiting must be shown
 - Existing international students recruiting mechanisms (RTU 1370 applicants at 2018/2019, UL 509 at 2018/2018)
 - Experience of other colleagues
 - IPPOG

Activities funded

- Salaries for the staff – program creators
- Advisers, experts and other specialists, also foreign
- Travel
- Licensing
- Services
- Seminars
- EQUAR licensing

Thank you

Student competences

Understanding
of Particle
Physics and
Standard Model

Knowledge
further research
beyond known
at Standard
Model

Basic Skills to
Analyse and
Interpret PP
Experimental
Data

Has Overview at
PP tools –
Accelerators,
Detectors

Has Overview at
Accelerator and
Detector Design
and Major
Technologies

Has Insight at
Accelerator
Applications

Study Program

Particle Physics

Data

Technology

Particle Physics
Phenomenology

Applied
Statistics

Particle
Accelerators

Quantum Field
Theory

Applied
Computational
methods

Particle
Detectors

Standard Model

Big Data

Accelerator
Applications

Beyond
Standard
Model

Radiation Safety

Medical
Applications