Slovak University of Technology in Bratislava

Curriculum and characteristics of the course units

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Content

- Educational process

  – Design and planning of educational process
  – Admission, recognition,progression and certification
  – Realization of educational process

Design and planning of educational process

- **Requirements:**
  - Students must be able to achieve the learning outcomes:
    - in the expected time
    - according to a gradual process
    - through coherent and coordinated didactic activities

Design and planning of educational process

- Curriculum indicates:

  - the list of the course units

  - sequence during semester and year

  - number of ECTS credits for each unit

  - requirement to be approved by another body as teaching staff of the study programme (SP)

  - requirement of its documentation.
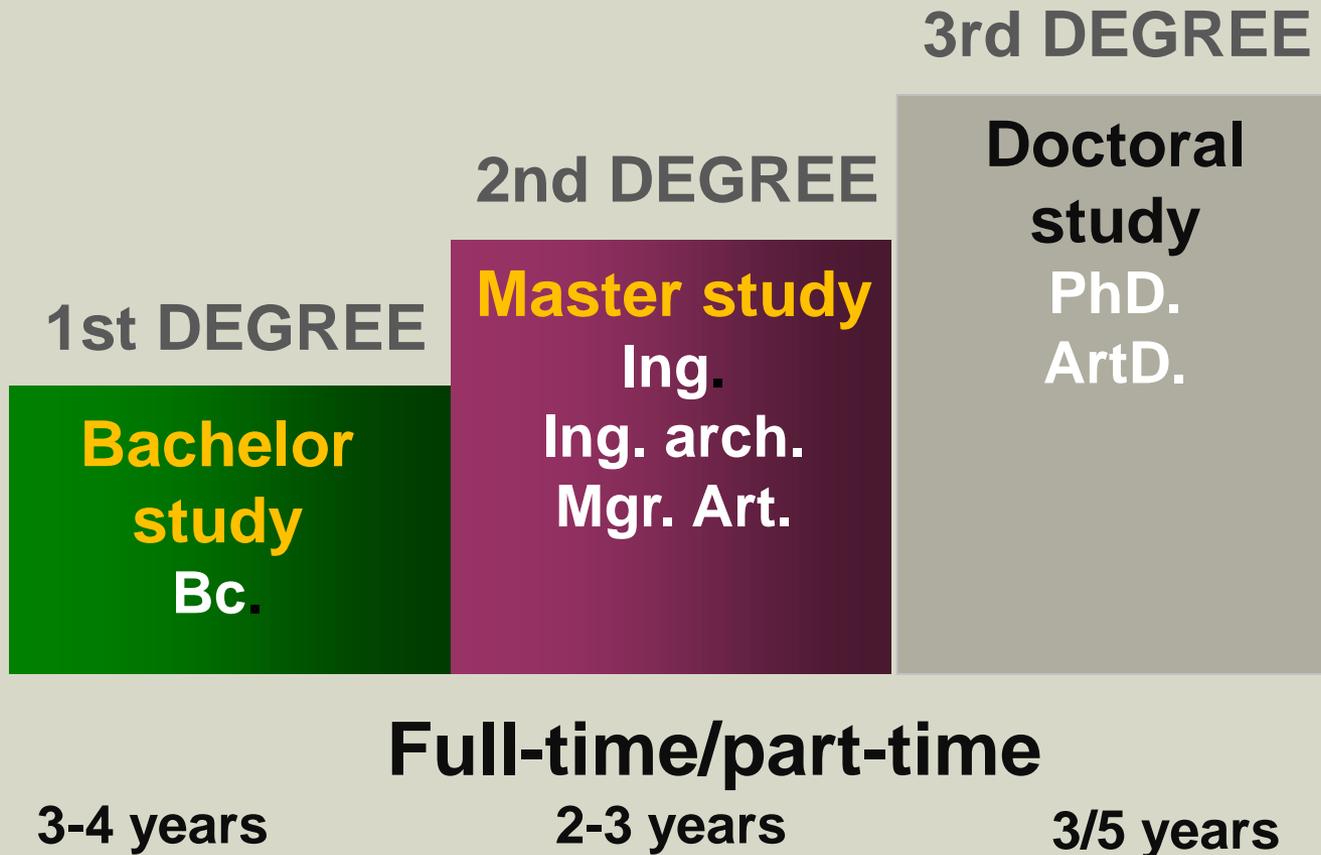
Design and planning of educational process

- ## For each course unit SP includes:
  - Name of SP
  - Number of ECTS credits (per semster and acad.year)
  - Course year and teaching period of delivery
  - Lecturer or lecturers (Prof, Assoc.Prof., PhD)
  - Learning outcomes of the course unit consistent with learning outcomes of SP (sylabus of unit)
  - Contents and schedule (AIS)
  - Forms of education (face to face, distance education)
  - Typology of educational activities (lectures, seminars, projects, laboratory work etc.

Design and planning of educational process

- **For each course unit SP includes**:
  - Assesment methods
    - Written examinations
    - Oral examinations
    - Combined oral and written examinations
    - Criteria for measuring students learning (AIS-questions for unit)
  - Preparatory course units (mathematics)
  - Didactic material of reference (textbooks, lecture texts etc)
  - Calendar and timetable of the course units (SP book, AIS)
  - Calendar of the exams, graduation exam and composition of the exam commision (AIS)
  - Adequate time for individual study of students
  - Approvement of SP (scientific committee, academic senate)

Study degrees in SUT

3rd DEGREE

Doctoral study
PhD.
ArtD.

2nd DEGREE

Master study
Ing.
Ing. arch.
Mgr. Art.

1st DEGREE

Bachelor study
Bc.

Full-time/part-time

3-4 years   **2-3 years**   **3/5 years**

Design and planning of educational process

- **Example of SP in SUT Bratislava**:
    - **Name of SP**: Building Technology and Management
    - **Field of study**: Civil Engineering
    - **Guarantor**: prof. Jozef Gašparík, PhD.
    - **Study degree**: Bachelor (Bc)
    - **Academic year**: 2013-2014
    - **Number of years**: 3
    - **Number of semesters**: 6
    - **Total number of credits**: 180
    - **Number of credits per semester**: 30

Design and planning of educational process

- **Example of SP in SUT Bratislava**: 1ˢᵗ semester

Code	Subject SP unit	Guaran-tor (name)	DEP	LECTURE /SEMINAR (Hours and assesment)	N. of credits	TYPE of educ. activities	
B-AH	Architecture History	Husenicova	ARC	2/0cc	2	Seminar	
B-DG	Descriptive Geometry	Knor	MDG	2/2e	5	Seminar	
B-SR	Surveying	Sokol	GDE	2/2e	5	Laboratory	
B-GE	Geology	Baliak	GTE	2/2e	5	Seminar	
B-MA	Mathematics	Mesiar	MDG	2/3e	6	Seminar	
B-CHE	Chemistry	Pavlík	MTI	2/2e	5	Laboratory	
B-TD	Technical drawing	Žllinský	KPS	0/2cc	2	Studio	
					Total	30	

Admission, recognition,progression,certification

- **Requirements**:

  – SP or competent authority defines regulations covering all phases of the student LIFE CYCLE:
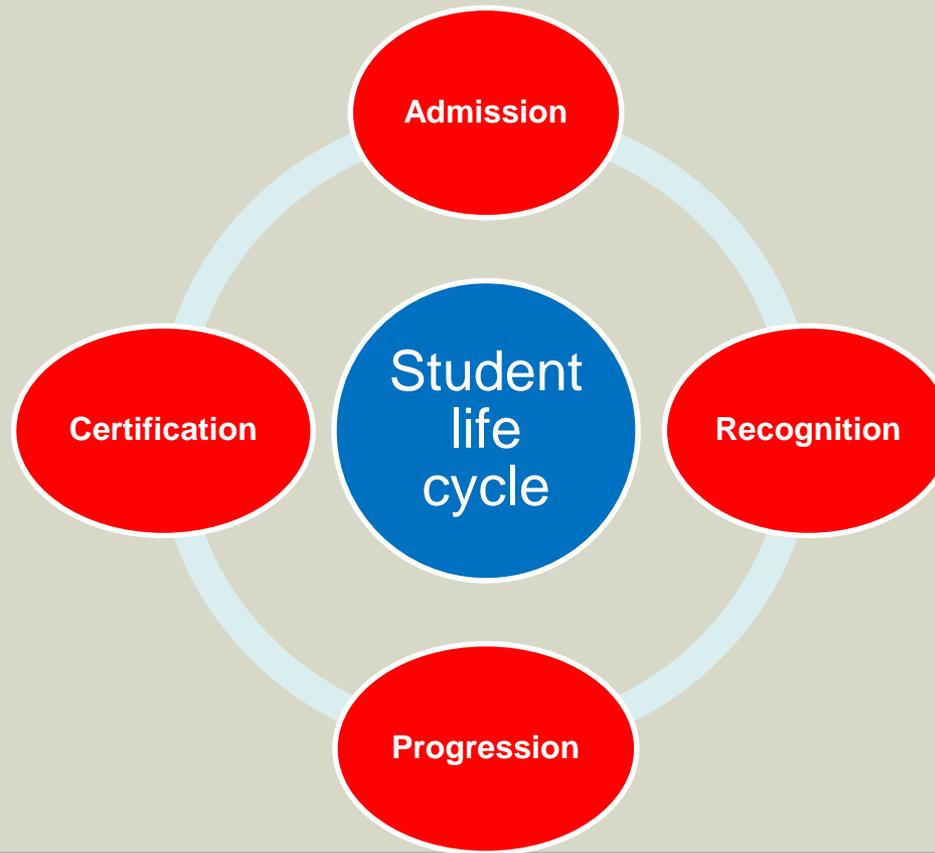
    - admission

    - recognition

    - progression

    - certification

Admission, recognition,progression,certification

- Life cycle of student

Admission, recognition, progression, certification

- **Admission:**

  - Qualification required for admission to the SP:

    - Responsible person: dean of the faculty after approving by scientific council and academic senate

  - Criteria of student admission:

    - Secondary school with graduation
    - Successful test from mathematics and physics during admission process
    - Comment: Students with excellent study results are admitted automaticaly without test (study results up to 1,5 in scale from 1 to 5)

Admission, recognition, progression, certification

- **Recognition**:
  - Dean of the faculty after approving by scientific council and academic senate is responsible to establish:
    - regulations for the recognition of higher education qualifications
    - periods of study
    - Comment: Recognition of SP and education process in another EU countries

Admission, recognition,progression,certification

- **Certification**:
  - Bachalor degree: Diploma of bachalor „Bc.":
    - successfully finishing of all SP units and credits (180 credits for 3 years study and 240 credits for 4 years study)
    - successfully state bachalor final exam and defense of bachalor thesis
  - Master degree: Diploma of master „Ing.":
    - successfully finishing of all SP units and credits (120 credits for 2 years study)
    - successfully state master final exam and defense of master thesis
  - Philosophie Dr. degree: Diploma of „PhD":
    - successfully finishing of all SP units and credits (240 credits for 4 years study)
    - successfully state PhD. final exam and defense of PhD. thesis
    - Comment: Except of diploma graduates will get documentation of their achieved learning outcomes (study results during all study period)

Realization of the educational process

- **Requirements**:
  - Educational process-compliance with the designed and planned development of SP
  - Control the development of the educational process
    - Checking the correspondence with designed and planned development
    - The adequacy of the assesment tests to the learning outcomes
    - Correctness of the evaluation of the sudents learning

Realization of the educational process

- **Control methods of education process:**
  - Direct control:
    - Timetable observance by lecturer
    - Preparedness and punctuality of lecturer
  - Indirect control:
    - Through information in AIS
    - Through the survey of the student opinions on the coiurse units

Comment: Requirements of documentation of these controls
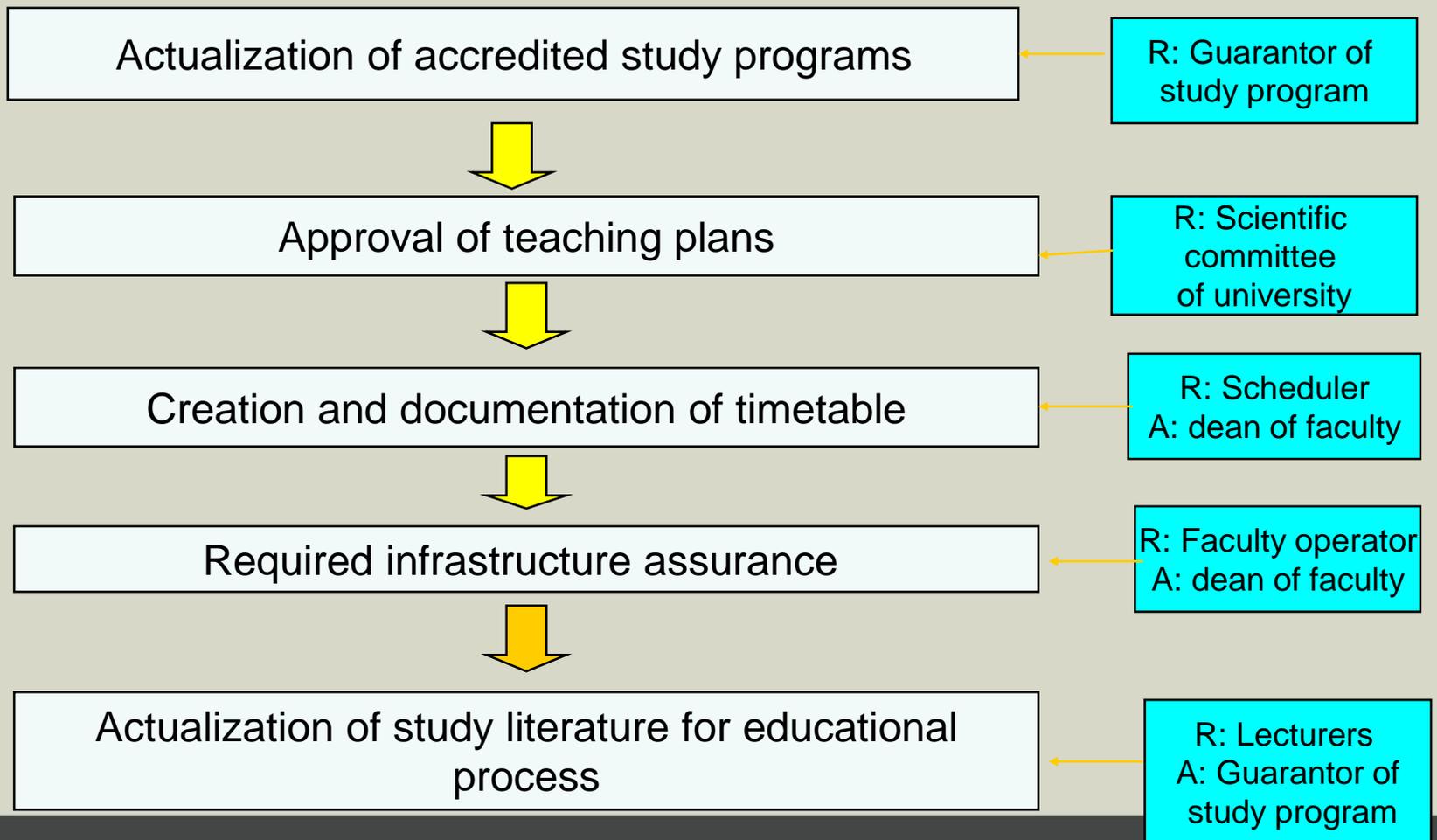
Realization of the educational process

- **Control methods of:**
  - assesment tests (adequancy to the learning outcomes)
  - correctness of the evaluation of the students learning
  - Direct control:
    - Ex-post control of the written tests
    - The direct control of the oral tests
  - Indirect control:
    - Monitoring of the results of the assesment tests
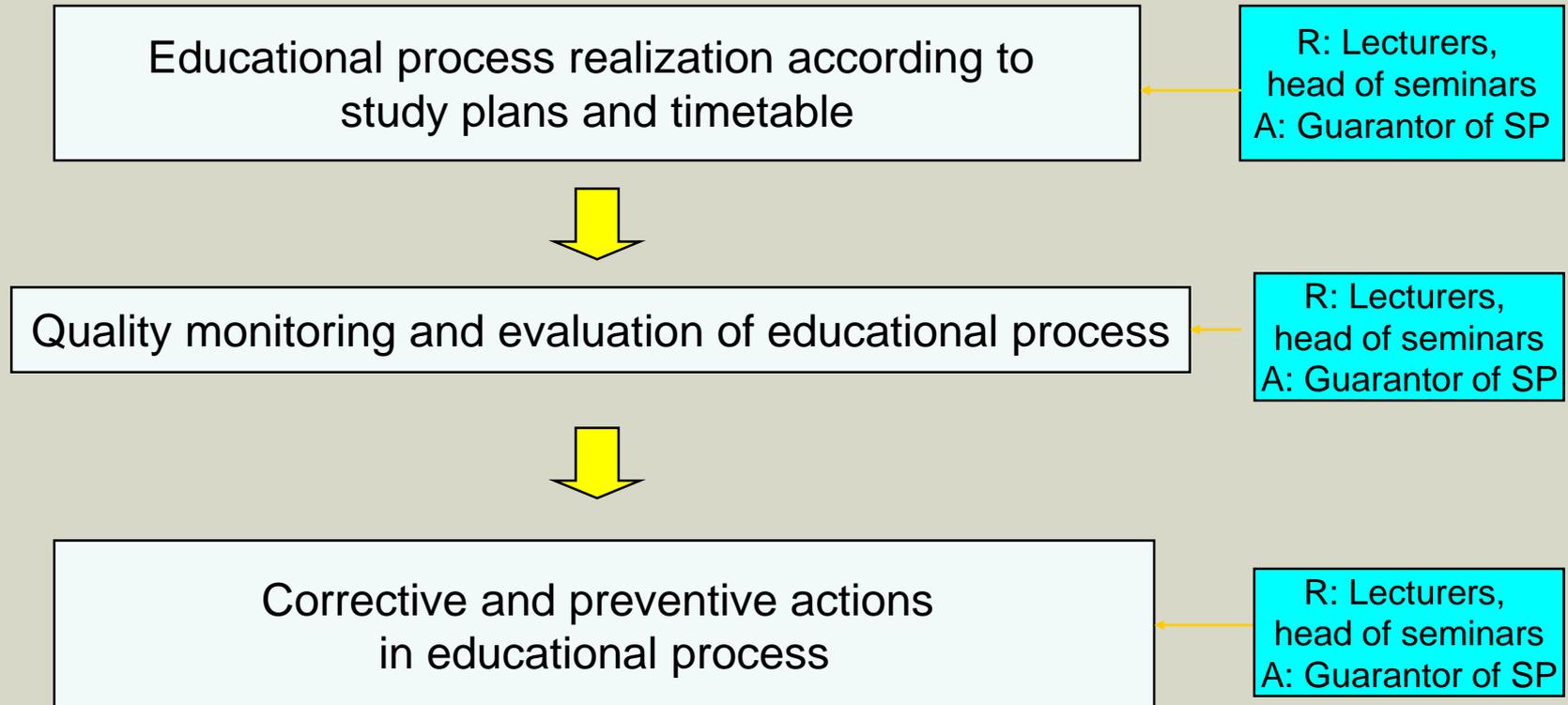   - Through statistical values: medium final grade, grade variance

Comment: Requirements of documentation of these controls

REALIZATION OF THE EDUCATIONAL PROCESS

Actualization of accredited study programs

R: Guarantor of study program

Approval of teaching plans

R: Scientific committee of university

Creation and documentation of timetable

R: Scheduler
A: dean of faculty

Required infrastructure assurance

R: Faculty operator
A: dean of faculty

Actualization of study literature for educational process

R: Lecturers
A: Guarantor of study program

REALIZATION OF THE PEDAGOGICAL PROCESS

Educational process realization according to study plans and timetable

R: Lecturers, head of seminars
A: Guarantor of SP

Quality monitoring and evaluation of educational process

R: Lecturers, head of seminars
A: Guarantor of SP

Corrective and preventive actions in educational process

R: Lecturers, head of seminars
A: Guarantor of SP

Thank You !