

Slovak University of Technology in Bratislava

MONITORING AND RESULTS OF THE EDUCATIONAL PROCESS

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Transforming Assessment Practices

Content

Monitoring and results of the educational process

- Entrance students
- Student's learning
- Student's progression in their studies
- Student's opinion on the educational process
- Graduates' placement
- Employed graduates' and employers' opinion on the graduates' results



Entrance students

- **Attractiveness of SP (yearly monitoring):**
 - Number of students enrolled in the first course year
 - Possession of students admission requirements
 - Enrolled students geographical and secondary school of provenance
 - 1st course year 2017: 50% of students from grammar school, 50 % from vocational sec. School, 33% of women



Entrance students: Faculty of CE SUT

Bratislava

Number of students in Bc. degree

Class	Year	Year	Year	Year	Year
Bc.	2013/14	2014/15	2015/16	2016/17	2017/18
1.	650	626	501	451	430
2.	649	516	453	325	314
3.	688	705	590	564	439
4.	360	353	347	318	250
Total	2347	2200	1891	1657	1433



Entrance students: Faculty of CE SUT Bratislava **Decrease of number of students after 1st year of study (Bc. Degree)**

Academic year	Number of students (1 st course)	Decrease of students after 1 st year	Decrease of students in % after 1 year
2011/12	709	200	28
2012/13	747	164	22
2013/14	650	201	31
2014/15	626	212	34
2015/16	514	208	40
2016/17	462	182	39

Entrance students: Faculty of CE SUT Bratislava

Number of students in Master (Ing) degree

Class	Year	Year	Year	Year	Year
Master „Ing“	2013/14	2014/15	2015/16	2016/17	2017/18
1.	543	480	498	408	351
2.	609	588	522	526	467
Total	1152	1068	1020	934	818

Entrance students: Faculty of CE SUT Bratislava **Decrease of number of students after 1st year of study (Master degree)**

Academic year	Number of students (1 st course)	Decrease of students after 1 st year	Decrease of students in % after 1 year
2011/12	537	21	8
2012/13	576	29	5
2013/14	545	27	5
2014/15	480	24	5
2015/16	501	35	5
2016/17	408	33	8



Entrance students: Faculty of CE SUT Bratislava

Number of students in PhD. degree

PhD. study	Year	Year	Year	Year	Year
Form of study	2003/14	2014/15	2015/16	2016/17	2017/18
Daily	244	229	187	170	150
External	49	48	38	25	22
Total	293	277	225	195	172

Entrance students: Faculty of CE SUT

Bratislava

Number of foreign students

Academic year	2013/14	2014/15	2015/16	2016/17	2017/18
Number of all students	3500	3268	2911	2590	2251
Number of foreign students	102	86	90	50	77
Number of foreign students in %	2,9	2,6	3,1	1,9	3,4



Students learning

- **Checking the effectiveness of the course units:**
 - the number of students who have to take the examination in academic year
 - The number of students who have passed the examination in the academic year
 - The medium value of the grades who have passed the examination
 - The grade variance



Students learning

- **Checking the effectiveness of the course units:**
 - The control of the results of the assesment tests (adequacy of the the test to check the level of achievement of the learning outcomnes)
 - Correctness of the assesment of the students learning by lecturer
 - Control of the development of the assesment tests
 - Ex-post control of the written tests



Students progression in their studies

- **Checking the effectiveness of the course units:**
 - The number of students who pass from one course year to the next one and number of unsuccessful students
 - The median and the mean value with variance of the number of ECTS credits with which students pass from one course year to the successive one
 - The number of graduates within the official length of the SP.

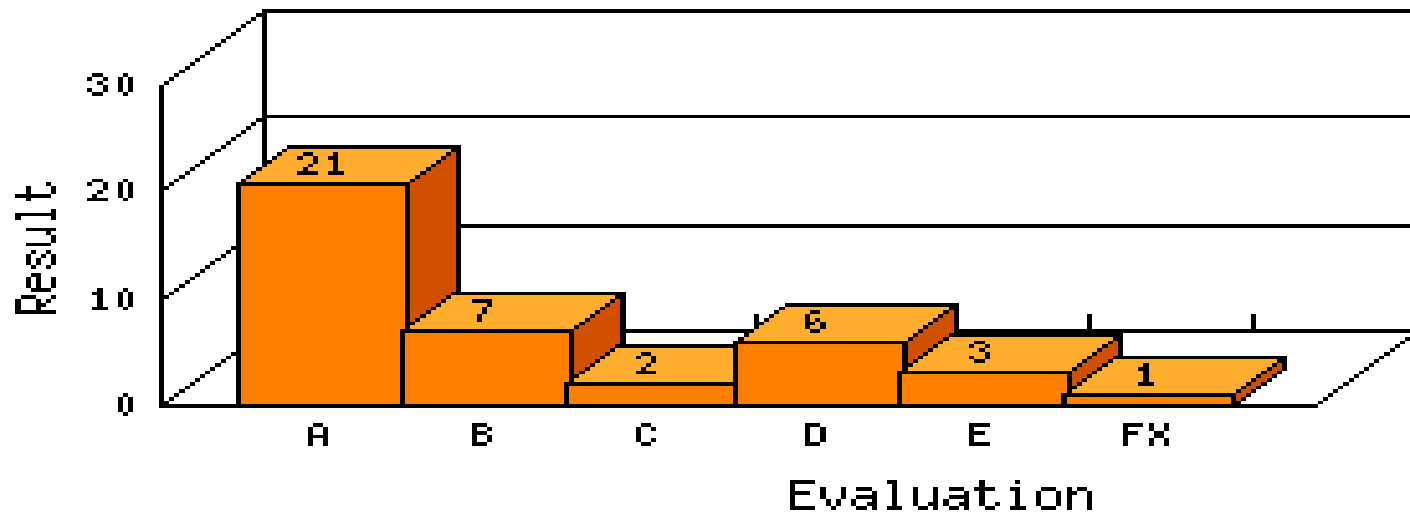


Students progression in their studies

Faculty of CE SUT Bratislava- Example of evaluation the students in one unit (Output from AIS)

- **All exam sittings** (attendance: 40)
- **Course supervisor: prof. Boris Bielek, PhD**

Results comparison - All exam sittings



Students opinion on the education process

- **Checking the effectiveness of the educational process by students:**
 - The course units
 - The training period outside
 - The periods of international mobility
 - The student support services (final year students)
 - The survey of the entrance students opinion (orienting services) www.stavebnafakulta.sk
 - **Comment: Form of monitoring: min. list of questions reported in document**



Students opinion on the education process

- **Monitoring instruments:**
 - On-line or paper questionnaires
 - Interviews
 - Before the end of lessons
 - During examination period
 - Free discussion meeting of students with dean, vice – dean for educational process, guarantour etc.



Students opinion on the education process

Participation of students in evaluation of educational process

Faculty of CE SUT Bratislava

Academic year	10/11 Summer	11/12 Summer	12/13 Summer	13/14 Summer	14/15 Summer	15/16 Winter	15/16 Summer	16/17 Winter	16/17 Summer
Possible number of respondents	3669	3558	3510	3366	3093	2950	2720	2568	2432
Real number of respondents	939	1238	1418	1500	1500	1567	1211	1474	1265
Participation in %	25	34	40	44	48	53	44	57	52
Number of units	542	397	393	386	371	454	353	398	349
Number of units with feedback	377	339	342	334	321	301	296	289	290
Units evaluation in %	69	85	87	86	86	66	83	72	83

Graduates' placement

AIM:

- Application of graduate qualification on market
- Correspondence of the SP educational objectives to the education needs of a labour market
- Monitoring of the graduates' placement on market through the survey:
 - The percentage of employed graduates
 - The percentage of graduates for PhD. study (Master graduates)
 - The placement time in the labour market
 - The effectiveness of the degree in the working activity after 1 +3 years since graduation
 - The number of students from Bc degree to Master degree



Employed graduates' and employers' opinion on the graduates' education

AIM:

- Checking the adequacy of SP learning outcomes to the educational needs of the labour market
- Monitoring the opinions of the employed graduates on the education process (after 1 + 3 years since graduation)
- Monitoring the opinions of employers on the graduates education



Employed graduates' and employers' opinion on the graduates' education

Monitoring instruments:

- On-line or paper questionnaires
- Interviews (guarantor or head of department with graduates)
- Periodicity (annual or every 3 years)
- Percentage of employed graduates to total number of graduates
 - Comment: This activity needs to keep contact to all graduates for possible future communication



Bologna Process Strengths

- Higher level of SP compatibility at universities of European countries
- The same structure of educational process with 3 degrees allows higher mobility of students in foreign universities
- Credit system allows some units to study at home university and some abroad according to SP requirements
- After finishing 1st degree student has qualification (Bc.) for practical work or continually study in Master degree



Bologna Process Strengths

- Higher possibility of distance education using progressive information technology and didactic technique
- Possibility to study special courses at universities or companies with high credit on market
- Using of qualification at world labour market
- Higher possibility of study recognition in foreign countries



Bologna Process Weakness

- Traditional 5 years university systems were changed into 3 degree system (Bc, Master and PhD), but the structure of units remind the same:
 - The study of Bc. degree is for students more difficult like Master (un-logical)
- More free credit system creates problem of students to keep 180 credits after 3 years of Bc. study
- 98 % of students after Bc. degree prefer to study on Master degree and not to go to practice



Bologna Process Weakness

- Students in Bc. degree have no needed practical experiences to work in companies
- Influence of labour market requirements is minimal in Bc. Degree
- Teachers prefer their teaching units not according to labour market needs but according to their personal interest
- A lot of natural-science units in Bc. degree create decrease of number of students after 1st year of study



Conclusion

- Changing the structure of units in all 3 degrees:
 - Bc model- more practical units with possibility to go to labour market
 - Master model- more scientific able only for better and creative students from Bc. Model
 - PhD. model- scientific model only for the best students with preconditions and ability to develop the science and research in SP
- Higher level of students mobility with aim to exchange the experience (international scientific competition of students)
- Distance education with possibility to participate on lectures and units at European universities with high credits



Thank You !



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