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**CURRICULUM OF PART-TIME PROGRAMME "PROFESSIONAL DEVELOPMENT OF PROFESSORS AND TEACHERS"**

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| Abstract | This document represents an overview of curriculum for bachelor studies "Professional development of professors and teachers" by classical face to face teaching methodology. |

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DOCUMENT CONTROL SHEET

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VERSIONING AND CONTRIBUTION HISTORY

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| Version | Date | Revision Description | Responsible Partner |
| 1.0 | 06.04.2019. | Concept development | Mirko Savić (UNS) |
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**6.1 Development of curricula and course syllabi**

Since the study programs were already developed and accredited (two of them under Tempus projects: Master Program in Applied Statistics (JP 511140-2010) and Mathematics Curricula for Technological Development (JEP - 17017 - 2002)), there was no possibility of changing the content of the study program. Employed students must acquire identical competences as students who study at full time.

The only modification that was possible in relation to the legal regulations is improvement and innovation in the realization of the teaching process.

The change that was possible and which we carried out on the study program of Applied Statistics was reflected in testing a new schedule for the realization of teaching. Each of the two school years 2016/17. and 2017/18. some of the novelties were piloted.

**Realization of study program in 2016/2017**

* Due to everything stated University center of applied statistics decided to implement and modify the master program for employed students in the academic year 2016/17
* Teaching was done in BLOCKS, which means that the time for the realization of one course was between 3 and 5 weeks, depending on the hours of the lesson
* The realization of individual courses allowed students to dedicate maximum to the obligations of one course.
* Application of on-line contact hours and combined classes.
* In addition, teaching was exclusively realized in the evening and weekends

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | Course | L | T | Active T |
| p1 | Probability theory and statistics | 3 | 3 | 90 |
| p2 | Elective | 3 | 2 | 75 |
| p3 | Theory of estimation and conclusions | 2 | 2 | 60 |
| p4 | Official statistics | 2 | 1 | 45 |
| p5 | Methodology of collecting data and statistical softawre | 3 | 2 | 75 |
| p6 | Academic skills | 1 | 2 | 45 |
| p7 | Multivariate analysis | 2 | 2 | 60 |
| p8 | Sample theory | 2 | 2 | 60 |
| p9 | Introduction to linear models | 3 | 2 | 75 |

Time frame per week for each individual course

The realization of teaching was envisaged in the period from October 24, and due to the implementation of block teaching model, the last working day was July 9, 2017.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| working week | month | Mon | Tue | Wen | Thy | Fri  | Sat | Sun | course |
| 1 |  Oct 2016 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | p1 |
| 2 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | p1 |
| 3 | Nov 2016 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | p1 |
| 4 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | p1 |
| 5 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | p1 |
| 6 | 28 | 29 | 30 | 1 | 2 | 3 | 4 | p1 |
| 7 | Dec 2016 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | p2 |
| 8 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | p2 |
| 9 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | p2 |
| 10 | 26 | 27 | 28 | 29 | 30 | 31 | 1 | p2 |
| 11 | Jan 2017 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | p3 |
| 12 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | p3 |
| 13 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | p3 |
| 14 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | p3 |
| 15 | 30 | 31 | 1 | 2 | 3 | 4 | 5 | p3 |
| 16 | Feb 2017 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | p4 |
| 17 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | p4 |
| 18 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | p4 |
| 19 | 27 | 28 | 1 | 2 | 3 | 4 | 5 | p5 |
| 20 | Mar 2017 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | p5 |
| 21 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | p5 |
| 22 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | p5 |
| 23 | 27 | 28 | 29 | 30 | 31 | 1 | 2 | p5 |
| 24 | Apr 2017 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | p5 |
| 25 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | p6 |
| 26 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | p7, p6 |
| 27 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | p7, p6 |
| 28 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | p7 |
| 29 | May 2017 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | p7 |
| 30 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | p7, p8 |
| 31 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | p8 |
| 32 | 29 | 30 | 31 | 1 | 2 | 3 | 4 | p8 |
| 33 | June 2017 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | p8, p9 |
| 34 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | p9 |
| 35 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | p9 |
| 36 | 26 | 27 | 28 | 29 | 30 | 1 | 2 | p9 |
| 37 | July 2017 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | p9 |

After adopting the framework, the teachers made and proposed a daily schedule for their courses

The precise schedule and the realization model of teaching were determined so that the student had an accurate insight into his / her obligations.

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| --- | --- | --- | --- |
| week 1 | time | active teaching | model |
| 25. oct (Tue) | 18:00-20:30 | 3 teaching hours, lectures | on-line contact hours |
| 26. oct (Wed) | 18:00-20:30 | 3 teaching hours, lectures | on-line contact hours |
| 27. oct (Thy) | 18:00-20:30 | 3 teaching hours, lectures | on-line contact hours |
| 29. oct (Sat) | 9:00-14:00 | 6 teaching hours, tutorials | F2F contact hours, weekends |

**Realization of study program in 2017/2018**

As the new Law on Higher Education was not adopted at the time of the Call for enrolment, the Center of applied statistics decided to use the old law and to allow students to choose courses in the minimum volume of 37 ECTS when enrolling.

For these reasons, the time for the implementation of each course was clearly indicated at the Call for study enrollment, and the schedule for students who choose part-time studies was particularly indicated. In the following table, the courses that are intended for listening by PT students are marked in green. Such a schedule is proposed based on piloting results in the school year 2016/17. In this schedule it is envisaged that PT students do not attend more than one course at a time.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Course | ECTS | lecture hours per/ w | tutorial hours per/w | teaching hours | weeks | period |
| Probability theory and statistics | 8 | 3 | 3 | 90 | 6 | Oct, Nov (23.10 - 01.12.) |
| Elective | 8 | 3 | 2 | 75 | 5 | Dec (29.11 - 05.01.) |
| Theory of estimation and conclusions | 6 | 2 | 2 | 60 | 4 | Jan, Feb (09.01 – 07.02.) |
| Official statistics | 6 | 2 | 1 | 45 | 3 | Feb (05.02 - 23. 02.) |
| Methodology of collecting data and statistical softawre | 6 | 3 | 2 | 75 | 5 | Mar, Apr (06.03 - 06 04.) |
| Academic skills | 4 | 1 | 2 | 45 | 3 | Apr (09. 04-27. 04.) |
| Multivariate analysis | 6 | 3 | 2 | 60 | 4 | Apr, May (16. 04 - 18. 05.) |
| Sample theory | 6 | 2 | 2 | 60 | 4 | May, June (14. 05 - 08. 06.) |
| Introduction to linear models | 8 | 3 | 2 | 75 | 5 | June (03. 06 - 06. 07.) |

**Realization of study program in 2018/2019**

The methods of organization of teaching that was proved to be the most suitable for the employed students in the past two years, and which ensures realization of all necessary activities, has been continued.