

| Institute of Cyber-physical Systems | | | 2024-25-2 | | | |
|--|---|----------|-------------------------------------|-----|-----|-----|
| Name of the subject: | Code of the subject: | Credits: | Weekly hours: | | | |
| | | | | lec | sem | lab |
| Cloud based Business Intelligence and analysis – SAP Analytics Cloud | NKWCB1EBNF | 4 | full-time | 1 | | 2 |
| Responsible person for the subject: Dr. habil. Rita FLEINER | | | Classification: associate professor | | | |
| Subject lecturer(s): Attila Ritzl | | | | | | |
| Prerequisites: | Comprehensive Exam | | | | | |
| Way of the assessment: | Mid-term grade | | | | | |
| Course description | | | | | | |
| Goal: | Within the scope of the subject, students will learn about the SAP Analytics Cloud report creation software, the different steps, real business cases, problems, operating models and roles. | | | | | |
| Course description: | Introduction to the world of cloud-based business intelligence; Data environment; connection types; basics of data modeling; Report creation I. – Analytics Designer; Story; Data Analyzer; Self - Service; Making a report II. – SAP Analytics Cloud report types; BI Admin role – management of housekeeping; monitoring; other BI roles; Life-cycle management; Decision support - using artificial intelligence; User Experience (UX) trends; Financial planning; what-if cases; General recommendations for best performance; example analysis; documentation research; BI consulting; planning; development; and maintenance everyday questions; Market trends; players; opportunities; outlook | | | | | |

| Lecture schedule | |
|---|---|
| Education week | Topic |
| 1. | Introduction to the world of cloud-based business intelligence |
| 2. | Data environment, connection types, basics of data modeling |
| 3. | Report creation I. – Analytics Designer, Story, Data Analyzer, Self - Service |
| 4. | Making a report II. – SAP Analytics Cloud report types |
| 5. | BI Admin role – management of housekeeping, monitoring, other BI roles |
| 6. | Life-cycle management |
| 7. | Decision support - using artificial intelligence |
| 8. | User Experience (UX) trends |
| 9. | Financial planning, what-if cases |
| 10. | General recommendations for best performance, example analysis, documentation research |
| 11. | BI consulting, planning, development, and maintenance everyday questions |
| 12. | Market trends, players, opportunities, outlook |
| 13. | Test |
| 14. | Retake test |
| Mid-term requirements | |
| Conditions for obtaining a mid-term grade/signature | Participation at lessons is mandatory. Signature cannot be assigned to students who missed more than 30% of lessons. During the semester, students can choose how to acquire grade: <ul style="list-style-type: none"> - Work on individual project with 3 milestones. - Take a test on whole semester's topics. |
| Assessment schedule | |

| Education week | Topic |
|--|--|
| 13. | Test |
| 14. | Retake Test |
| Method used to calculate the <i>mid-term grade</i> (to be filled out only for subjects with mid-term grades) | |
| Based on student choice: test or project. Test result need to exceed 51%, project has to meet basic requirement and milestone deadlines have to be kept. | |
| Type of the replacement | |
| Type of the replacement of written test/mid-term grade/signature | Test can be re-taken on last week of semester. |
| Type of the exam (to be filled out only for subjects with exams) | |
| | |
| Calculation of the exam mark (to be filled only for subjects with exams) | |
| | |
| Final grade calculation methods: | |
| Test's or project's grade (0-50: 1, 51-65: 2, 66-75: 3, 76-85: 4, 86-100: 5). | |
| References | |
| Obligatory: | 1. Hastie, T., Tibshirani, R., Friedman, J. (2009). The elements of statistical learning: data mining, inference and prediction. (https://web.stanford.edu/~hastie/ElemStatLearn/) 2. Documents posted on Moodle |
| Recommended: | 1. Cole Nussbaumer Knaflitz: Storytelling With Data: A Data Visualization Guide for Business Professionals 2. Ryan Goodman, Jared Hansen: Getting Started with SAP Analytics Cloud |
| Other references: | |