

Information sheet for the course Introduction to Prognostics

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| University: <i>Alexander Dubček University of Trenčín</i> | |
| Faculty: <i>Faculty of Social and Economic Relations</i> | |
| Course unit code: <i>LZPV48</i> | Course unit title: <i>Introduction to Prognostics</i> |
| Type of course unit: <i>compulsory optional</i> | |
| Planned types, learning activities and teaching methods: <i>in-class</i> | |
| Number of credits: <i>3</i> | |
| Recommended semester: <i>2. semester in the 1st year (full-time)</i> <i>2. semester in the 1nd year (part-time)</i> | |
| Degree of study: <i>II. (engineer, magister)</i> | |
| Course prerequisites: <i>none</i> | |
| Assesment methods: <i>At the end of the semester there will be one written test: Assessment A: 90 – 100%. Assessment B: 80 – 89%. Assessment C: 70 – 79%. Assessment D: 60 – 69%. Assessment E: 50 – 59%. Assessment FX: less then 50%. At the end of the semester during the examination period: Credit.</i> | |
| Learning outcomes of the course unit: <i>Student by completing the course will obtain basic knowledge on methods of forecasting and prognosis, identifying critical prognostic application processes that take place in society and have an impact on economic and social development of society. Studies syllabus enables to understand the different methods analysis of forecasting and planning.</i> | |
| Course contents: <i>1. Interest of people in the future. Divination, forecasting, prognosis.</i> <i>2. Prognostics - science of forecasting and prognosis.</i> <i>3. Classification and properties prognosis. Verification of prognosis.</i> <i>4. Universal methods I .: brainstorming panel of experts.</i> <i>5. Universal method II .: participative methods, future state index.</i> <i>6. Universal method III .: systematic approach, wheel of future.</i> <i>7. Structural methods I .: relevance tree, morphological analysis.</i> <i>8. Structural methods II .: cross interactions, critical technologies.</i> <i>9. The process-oriented methods I .: extrapolation of trends and time series analysis of the impact of trends, megatrends analysis.</i> <i>10. The process-oriented methods II .: Delphi method and simulations and games.</i> <i>11. The process-oriented methods III .: scenarios, forecasts of genius, intuition and vision.</i> <i>12. Forecasting and planning.</i> <i>13. Summary.</i> | |
| Recommended of required reading: <i>Holcr, K.: Vojenská prognostika. Naše vojsko, Praha 1981</i> <i>Ivanička, K.: Prognostika. Univerzita Mateja Bela, Banská Bystrica 2000</i> <i>Klinec, I.: Budúce svety, budúce priestory. SAV, Bratislava 2005</i> <i>Potúček, M.: Manuál prognostických metod. SLON, Praha 2006</i> <i>Šulc, O.: Prognostika od A do Z. SNTL, Praha 1987</i> <i>Tuma, M.: Prognostika. Univerzita P.J. Šafárika, Košice 1992</i> <i>Vincúr, P. – Zajac, Š. a kol.: Úvod do prognostiky. SPRINT vfra, Bratislava 2007</i> | |
| Language: <i>Slovak</i> | |
| Remarks: <i>Course is offered in the summer semester of the first year of full-time and in the summer semester</i> | |

of the first year of external master/graduate studies. The course is elective.

Evaluation history: 0

| A | B | C | D | E | FX |
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Lectures: *Doc. RNDr. Jaroslav Holomek, CSc.*

Last modification: 28.05.2014

Supervisor: *doc. Mgr. Sergej Vojtovič, DrSc.*