

PhD intensive course

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# ELECTRONIC INFORMATION SYSTEMS

Prof. Dr. A. Valinevičius, Department of Electronics Engineering

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19 – 22 March 2019

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## About the course:

Knowledge is provided about methodology of integrated information electronic systems (IIES) efficiency investigation, evaluation and creation. Fundamentals of IIES efficiency theory are presented. It is taught to model efficiency of various purpose IIES. Abilities are formed: to investigate statistical efficiency of various purpose IIES; prognosticate its dynamics and assess influence of aging processes inside of them on durability. Knowledge is presented about efficiency analysis methods of electronic manufacturing control system information part, and also about efficiency analysis methods of electronic networks.

## Aim of the course:

To provide knowledge about methodology of analysis, evaluation and creation of integrated information electronic system (IIES).

## Course format, ECTS credits:

Theoretical and practical classes - 20%; individual work - 80%.

The evaluation is on a pass/fail basis (graduation on the Lithuanian 10-scale may be obtained if necessary).

Study load: 6 ECTS credits.

## Target group:

Master degree in electronics.



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## Electronic Information Systems

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### Main topics of the course:

- Fundamentals of IIES efficiency;
- Analysis of features determining IIES efficiency
- Investigation of efficiency of various IIES
- Efficiency of IIES operating in non-stationary environment
- Modeling of statistical IIES efficiency
- IIES efficiency modeling
- Modeling of integrated information electronic security systems efficiency
- Modeling of biometrical electronic systems (ES) efficiency
- Modeling of traffic flow control ES efficiency

### References:

1. Eidukas D., Balaišis P., Valinevičius A., Žilys M. Reliability and efficiency of electronic systems. - Kaunas: Technologija, 2006. - 314 p.
2. Smith D. J. Reliability, Maintainability and Risk. - Elsevier Butterworth-Heinemann, 2005. – 346 p.

### Course schedule:

Start date: 19 March 2019, 9 a.m.

End date: 22 March 2019, 3 p.m.

### Course fee:

4-day 6 ECTS course fee is 540 EUR . Travel and accommodation expenses *are not* included in course fee.

Course is free of charge for students who come to study under the Erasmus+ program.

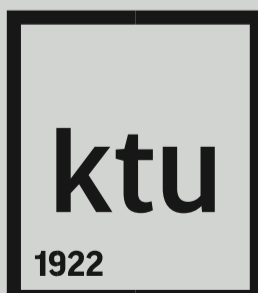
### Registration to the course:

Send inquiry to [phd@ktu.lt](mailto:phd@ktu.lt)

Registration deadline: 26 February 2019

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