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DesIRE Status in ZNTU

Galyna TABUNSHCHYK

Prof. Software Tools Department

Zaporizhzhya National Technical University



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Plan

1. ZNTU DesIRE Team
2. Planning for the autumn semester
3. My working plan



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ZNTU Desire Team



**Galyna TABUNSHCHYK ,
PhD, Prof. of Software Tools
Department**



**Anzhelika PARKHOMENKO
Assoc. Prof. Software Tools
Department**



**Tatyana KAPLIENKO,
Assoc. Prof. Software Tools
Department**



**Olga GLADKOVA
Assistant of Software
Tools Department**



**Natali MYRONOVA,
Assistant Prof. of Software
Tools Department**



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ZNTU Desire Team



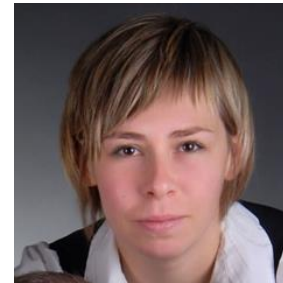
Sergii MORSHCHAVKA
The Head of the Radio
Electronics and
Telecommunication
Department



Sergiy SERDJUK
Assoc.Prof of Software
Tools Department



Mikhailo POLYAKOV,
Assoc. Prof. Radio
Electronics and
Telecommunication
Department



Zhanna KAMINSAYA
Assistant of Software
Tools Department



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Embedded Software Development

Total hours 108h

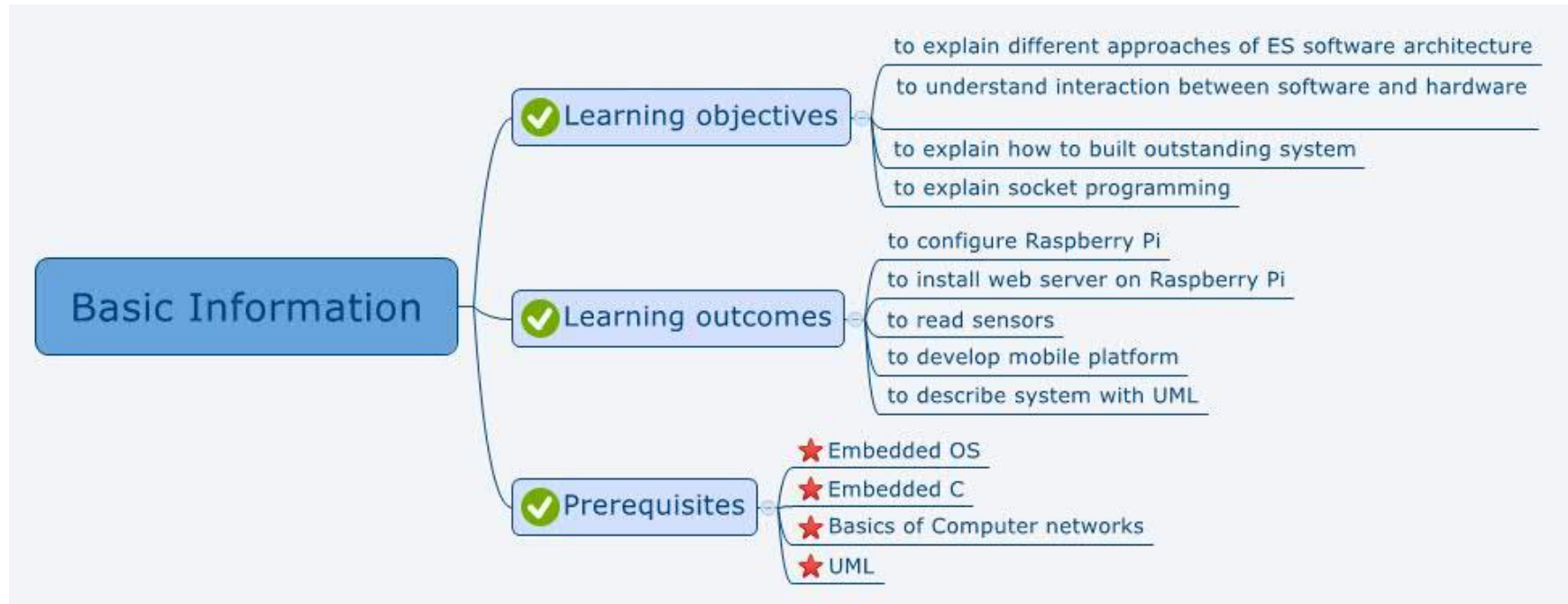
- Lectures: 12 h
- Lab works: 24 h
- Self work 72 h

Lecturer

Galyna TABUNSHCHYK ,
PhD, Prof.

galina.tabunshchik@gmail.com







Week	Subject
1	Introduction
2-3	Modelling of software for Embedded Systems
3-4	Standard component models
5-6	Architecture of the software for Embedded Systems
6-8	Templates for Software Architecture for Embedded Systems
9-10	Socket programming
11-12	Programming Linux Socket

Experiments, Projects, Lab Works	Subject
Lab work 1	Configuring Raspberry Pi
Lab work 2	Installing Web-server at Raspberry Pi
Lab work 3	Developing QT application at Raspberry Pi
Lab work 4	Reading sensors from extension board
Lab work 5	Developing Project on Raspberry Pi



Advanced Embedded Software Development

Total hours 108h

- Lectures: 12 h
- Lab works: 24 h
- Self work 72 h

Lecturer

Galyna TABUNSHCHYK ,
PhD, Prof.

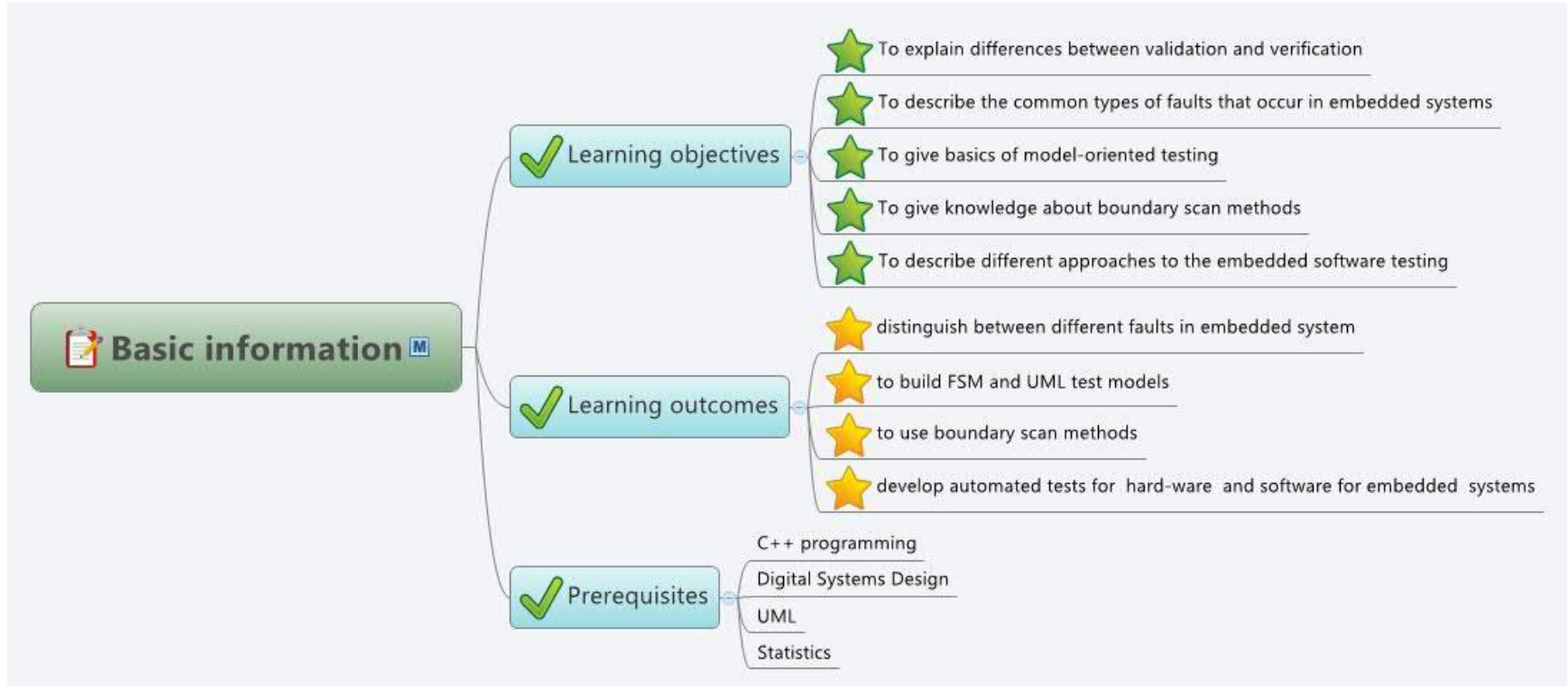
galina.tabunshchik@gmail.com



Python for Raspberry Pi



Quality of Informational Systems

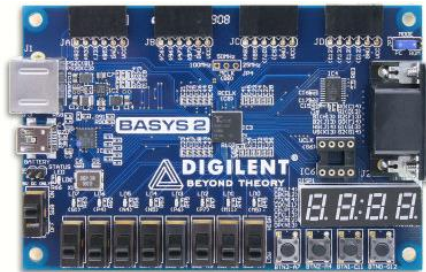




Week	Subject
1	Introduction
2	Validation and verification of the digital systems
3	Faults in Embedded Systems. Hardware Faults
4	Software-Hardware covalidation Faults Model
5	Model based testing
6	FSM Models for test generation
7	Midterm Exam
8	Testing of Embedded core-based systems on chips
9-10	Boundary scan methods and standards.
11	Virtual instrumentation for boundary scan
12	Embedded software testing. Functional testing
13	Embedded software testing. Coverage testing,
14	On-line testing of embedded systems
15	Comparison of IT technologies used for verification and validation
16	Review, Exam



Experiments, Projects, Lab Works	Subject
Lab work 1	Working with Git
Lab work 2	Functional Testing with Basys 2 Board
Lab work 3	Functional testing of embedded software
Lab work 4	FMS based testing with remotes experiments
Lab work 5	Remote functional testing

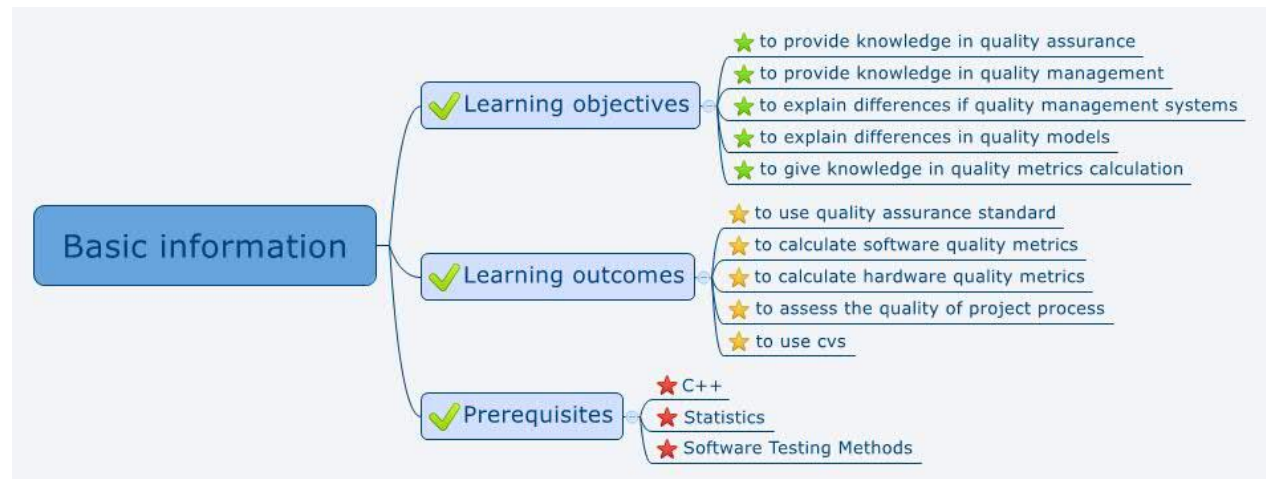




Quality Engineering

Total hours 108h

- Lectures: 12 h
- Lab works: 12 h
- Self work 60 h





Week	Subject
1	Introduction
2	Quality Management Philosophy.
3	The economics of Quality
4	Quality Engineering
5	Quality Control Methods
6	Configurational Management
7	Software Quality Assurance
8	Software quality system organization.
9	Software quality models
10	Software quality metrics
11	Software certification
12	Licenses of software and documentation



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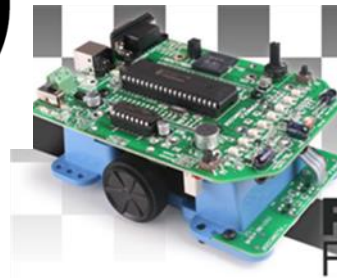
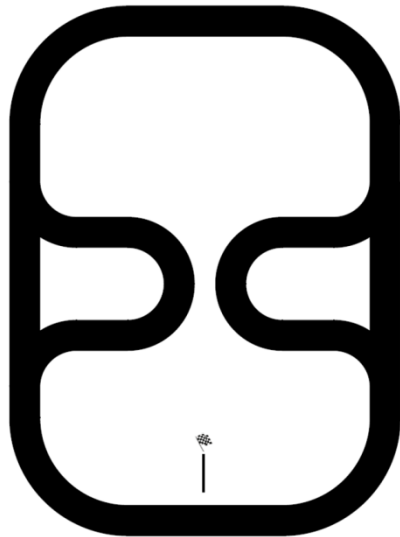


Projects in Object Oriented Programming



FORMULA
FLOWCODE

multi





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Thank You for Your Attention