ICT in SES

Introduction to SUICA

Lesson №1

Course development

Team

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Course name

SUICA

- Acronym for "Creation of educational interactive computer graphics" (in Bulgarian)

Goals

Theory

- Visualization of 2D/3D model

- Implementation of animation

Practice

- Programming of interactive multiplatform software

- Effective co-usage of different technologies

- Creation of educational content

Technologies

Used technologies

- **HTML5** for creating web content
- **CSS** for formatting web content
- **JavaScript** for programing animations
- **DOM** for access to web content
- **WebGL** + **SUICA** for graphics
- Experience with these technologies is advatage

Requirements

Do not be afraid of

- Geometry and 3D objects
- Programming and source code

To be able to

- Search and filter needed information
- Represent ideas and concepts

Learning materials

Lectures and exercises

- In Moodle [learn.fmi.uni-sofia.bg]
- Presentations, examples, problems and solutions

Additional information

- Details about technologies, used in the course, are widely available in the internet

Course structure

Five modules

- Module 1: Base technologies
- Module 2: Graphical objects
- Module 3: Animation and interactivity
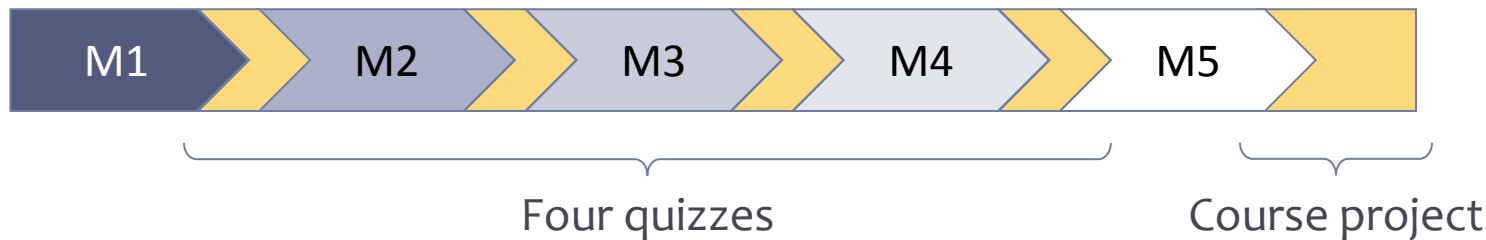- Module 4: User interface
- Module 5: Educational software

M1 M2 M3 M4 M5

Evaluation

Quizzes and project

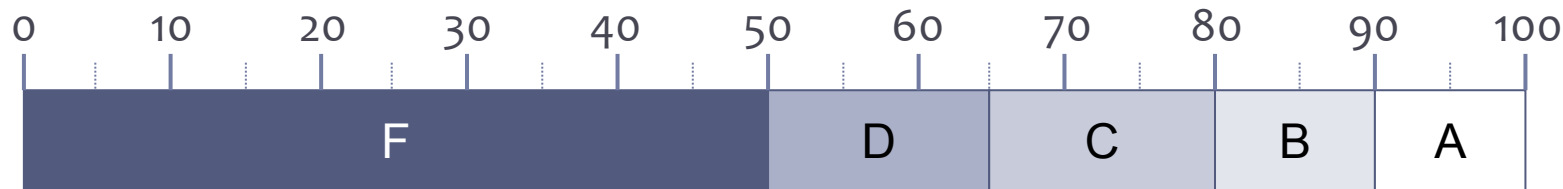- The first four modules have quizzes

- The last module has a course project

M1 M2 M3 M4 M5

Four quizzes   Course project

Evaluation

Score system

- Every quiz is 20 points
- The project is 30 points

Scale

- You need at least 50%

0	10	20	30	40	50	60	70	80	90	100
F					D		C		B	A

Course project

Topics

- A list of topics to chose from
- You may suggest your own topic, but is must be approved

Examples

- Educational content
- Interactive visualization of scientific concepts or phenomena
- Real-time experiments with models or simulations
- Recreational mathematics and educational games

Moodle

Used for the entire course

- Access to all materials
- Tests are made online
- Projects are submitted via Moodle
- Messages are sent via the forum

Frequently asked questions

Could you give me a topic for a project?

- **Yes**, there is a list of available topics
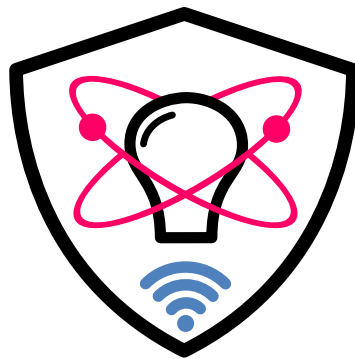
Could I change my topic?

- **Yes**, but you need to ask for permission

Could I use this code?

- **Yes**, but onlyy for learning, not for copy-and-pasting

Could you give me D?

- **Yes**, but only if you get 50% or more

End

Comments, questions