# Course description

Course name: Academic Year:	Introduction to 2023/2024	o 3D Graphics			Printed:	03.06.2024 03:26
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Department/Unit /	KGI / GDZ3E	)			Academic Year	2023/2024
Title	Introduction to	Introduction to 3D Graphics			Type of completion	Pre-Exam Credit
Accredited/Credits	Yes, 3 Cred.	Yes, 3 Cred.			Type of completion	
Number of hours	Seminar 3 [Ho	ours/Week]				
Occ/max	Status A	Status B	Status C		Course credit prior to	NO
Summer semester	23 / -	0 / -	0 / -		Counted into average	NO
Winter semester	0 / -	0 / 2	0 / 1		Min. (B+C) students	10
Timetable	Yes				Repeated registration	NO
Language of instruction	Czech				Semester taught	Winter, Summer
Optional course	Yes				Internship duration	0
Evaluation scale	SN					
No. of hours of on-premise						
Auto acc. of credit	Yes in the case of a previous evaluation 4 nebo nic.					
Periodicity	K					
Substituted course		1				
Preclusive courses						
Prerequisite courses		ı				
Informally recomn	nended courses	N/A				

#### Course objectives:

Course abbreviation:

KGI/GDZ3D

The aim of the course is to provide the students with competence to the effective use of software to create end edit 3-D models; to teach them practically and theoretically to handle the important procedures, to be able to use this software according to own needs and to orientate in its environment.

# Requirements on student

Credit requirements:

- regular attendance in seminars,
- completing all partial seminar tasks
- independent model development according to specified parameters in time

#### Content

- 1. Getting acquainted with the semester plan and teacher's requirements (semestral project). Initiate students into Rhinoceros setting.
- 2. Orientation in virtual 3D environment, using Rhinoceros tools.
- 3. Creating simple objects using line, refracted line.

Courses depending on this Course N/A

- 4. Creating simple objects using curve. Editing curves cutting, separating, joining.
- 5. Editing the curves through "Curves tools".
- 6. Creating objects as a ring, a square etc.
- 7. Using tools for creation letters and text.
- 8. Creation simple plane surfaces through created curves. Joining, cutting, separating.
- 9. 10. Editing simple plane surfaces through relevant tools.
- 11. Creating simple objects from curves or surfaces.
- 12. 13. Creating the scene using basic tools for visualisation.

Practical training is regularly accompanied by a theoretical interpretation of the teacher.

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#### Fields of study

#### Guarantors and lecturers

• Guarantors: MgA. Jan Zelinka

• Seminar lecturer: MgA. Mgr. Michal Poustka (100%), MgA. Jan Zelinka (100%)

#### Literature

• Basic: Puncman, Petr. Modelujeme v programu Rhinoceros 3D. Plzeň: Západočeská univerzita, 2008.

• **Recommended:** Manuál k aktuální verzi programu Rhinoceros.

• **Recommended:** web stránky s postupy modelování.

# Time requirements

# All forms of study

Activities	Time requirements for activity [h]				
Individual project (40)	20				
Contact hours	39				
Undergraduate study programme term essay (20-40)	20				
Total:	79				

#### assessment methods

# Knowledge - knowledge achieved by taking this course are verified by the following means:

Seminar work

Continuous assessment

# Skills - skills achieved by taking this course are verified by the following means:

Skills demonstration during practicum

**Project** 

Practical exam

#### Competences - competence achieved by taking this course are verified by the following means:

Seminar work

# prerequisite

### Knowledge - students are expected to possess the following knowledge before the course commences to finish it successfully:

to compare and analyze different artistic expressions by criteria of esthetics, semiotics and technique on basic level,

to reproduce knowledge of historical and recent artistic styles and canons,

to reproduce knowledge about visual means suitable for animated creation,

# Skills - students are expected to possess the following skills before the course commences to finish it successfully:

to work independently and flexibly react to evaluating commentary of the teacher

to show own creativity on generally assigned task, to show the will to find different artistic solutions, alter them and constructivelly evaluate

to make the effort to do artistic experiment and to find original and suitable solution to assigned matter

to be able to use on basic level computer guided and digital programs for creation of graphics, animations, etc.

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# Competences - students are expected to possess the following competences before the course commences to finish it successfully:

N/A

N/A

N/A

# teaching methods

### Knowledge - the following training methods are used to achieve the required knowledge:

Students' portfolio

One-to-One tutorial

Seminar classes

### Skills - the following training methods are used to achieve the required skills:

Skills demonstration

Students' portfolio

# Competences - the following training methods are used to achieve the required competences:

Discussion

### learning outcomes

# Knowledge - knowledge resulting from the course:

of basic tools and procedures of creating, editing and basic visualizing od 3D model,

of particular steps and procedures and their alterations and substitudes in different specific instances,

of options of usage of 3D vizualization in own discipline,

# Skills - skills resulting from the course:

to individually model an object in program Rhinoceros based on given parameters and in given time,

to use basic procedures for creating, editing and basic visualizatioon of 3D models,

to effectivelly use basic tools,

to present own work and defend in criteria of technics and aesthetics,

# Competences - competences resulting from the course:

N/A

N/A

N/A

# Course is included in study programmes:

Study Programme	Type of	Form of	Branch	Stage St	. plan v.	Year	Block	Status	R.year	R.
Fine Arts	Bachelor	Full-time	Illustration and Graphic Aspecialization Graphic Design	Art, 1	4	2023	Povinné předměty	A	1	LS
Fine Arts	Bachelor	Full-time	Illustration and Graphic A specialization Visual Communication	Art, 1	4	2023	Povinné předměty	A	1	LS
Graphic Design and Illustration	Bachelor	Full-time	Graphic Design and Digit Media	tal 1	1	2023	Povinné předměty	A	1	LS
Graphic Design and Illustration	Bachelor	Full-time	Graphic Design and Visu Communication	al 1	1	2023	Povinné předměty	A	1	LS