Subject code	Credits	
INF2023	3	

Title

AUDIOVIZUALIN S TECHNOLOGIJOS I

Title in English AUDIOVISUAL TECHNOLOGIES I

Subject goal and annotation

The course examines the concepts of digital video technology. Considered application areas include the digital video format, codec, video effects, editing, transition, nonlinear editing, titles, transparency, alpha channel, capture, export... etc.

Prerequisites

Basics of IT technologies

Relationship between the learning outcomes of the Programme and learning outcomes of the subject							
Learning outcomes of the Programme	Learning outcomes of the subject	Criteria for measuring the achievement of learning outcomes					
 sciences, and its relation to engineering. 4. Knowledge of basic and advanced multimedia theories and applications, ability to apply it. 5. Knowledge of basic art theory, history and methods in arts, their application. 14. Ability to analyze and evaluate art projects. 18. Critical analysis of Internet and multimedia projects context and their influence to business, culture and society. 19. Fast and efficient adaptation to the quickly changing cultural, economical and technological environment. 	used in realised projects	Oral student presentation, critical examination. Student demonstrates the ability to analyse video and media projects					
	creation	Student demonstrates the ability to analyse and evaluate video products (to do multimedia analysis).					
		Student demonstrates the ability to chose digital tools for digitalisation project and to make changes in the process. Student demonstrates the ability to evaluate the video elements of media project					
	To edit, exchange video and to make colour correction	Students are able to model, analyse and correct the elements of multimedia project					
	, , , , , , , , , , , , , , , , , , , ,	Students are able to model, analyse and correct the elements of multimedia project					
	To create video for multimedia projects	Student demonstrates the ability to work with video material in real multimedia projects.					

Subject content

	Lecture topics and contents	Hours
1.	History of audio technologies, sound in computer	3
2.	Sound out / in computer process, introduction to softwares and sound codecs	3
3.	Introduction to equipment of video editing	3
4.	Nonlinear film editing	3
5.	Lightening and working with video camera	3
6.	Multilayering film editing	3

7.	Basics of soundtrack, methods, technical parameters, coding and decoding	3
8	The composition of layers and injected video elements	3
9	Analysis of softwares for video editing	3
10	Analysis of technical instructions for audiovisual products	3
	Total	30

Practical work contents

1. Analysis and evaluation of technologies and digital tools used in the process of real projects

2. Analysis and modelling parts of video process; video digitalisation

3. Edit, exchange, use masks in video editing and colorise (colour correction)

4. Create video as a part of multimedia project

Evaluation of study results

Final written exam (50%), mid-term written exam (25%), and assessments of laboratory (practical) work (25%).

Distribution of subject study hours

 Lectures
 30

 Laboratory work and seminars
 15

 Individual studies (including studies in groups, preparation for the mid-term and final exams)
 36

 Total
 81

Recommended literature

		Number of copies available		
No	Authors of publication and title	in the Library of VMU	in specialized publication collections at VMU	in other libraries
Bas	ic materials			
1.	Erica Sadun. Digital Video Essentials: Shoot, Transfer, Edit, Share. Sybex, 2003		2	
2.	Borko Furht (Editor-In-Chief).(2006) Encyclopedia of multimedia, Springer, Florida Atlantic University. Springer, 2006		1	
Sup	plementary materials			
1.	Interaction design. (2005) Jonh Wiley&Sons. Jonh Wiley&Sons, 2005			
	ject prepared and coordinated by			
Lect	. Remigijus Venckus			