

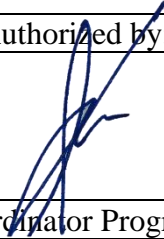




Faculty of Natural Sciences and Mathematics
Chemistry Department
Chemistry Education Study Program

Module name		Instructional Media in Chemistry		
Module level, if applicable		2 nd year		
Code, if applicable		SPK-430		
Semester(s) in which the module is taught		4 th semester		
Person responsible for the module		Artina Diniaty, M.Pd.		
Lecturer		Artina Diniaty, M.Pd. Beta Wulan Febriana, M.Pd.		
Language		Indonesia		
Relation to curriculum		Compulsory		
Teaching methods	Class size	Forms of active participation	Workload 91 hours	
Project based learning	40-50	Discussion, Presentation, Project designing instructional media	Lectures: 100 (min) x 16 (meeting)	27 hours
			Assignment: 120 (min) x 16 (week)	32 hours
			Independent study: 120 (min) x 16 (week)	32 hours
ECTS credit		3.25		
Credit points		2 SCU		
Requirements according to the examination regulations		Minimum attendance at lectures is 75% (according to UII regulation)		
Recommended prerequisites		N/A		
Related course		Producing Animation-based Learning Media Producing of Chemistry Textbook Producing Video-based Learning Media		
Module objectives/intended learning outcomes		On successful completion of the course: 1. Students can create Student Worksheets learning media for high school chemistry learning 2. Students can create PowerPoint learning media (PPT) for high school chemistry learning 3. Students can create game-based learning media for high school chemistry learning 4. Students can create song learning media for high school chemistry learning		
Content		1. Urgency of Using Instructional Media 2. Selection of Instructional Media		

	3. Student Worksheet 4. Presentation (PPT, Sway, Mind Map) 5. Game and Video Animation		
Study and examination requirements and forms of examination	Final score (NA) is calculated as follows:		
	Intended learning outcomes	Weight (%)	Technique of assessment
	1	30	Non test: project assessment (student worksheet)
	2	20	Non test: project assessment (media presentation)
	3	25	Non test: project assessment (game)
	4	25	Non test: project assessment (chemistry song)
Media employed	Modul, Google classroom, Power Point, Zoom		
Reading list	1. Azhar Arsyad, Media Pengajaran, Cet.1. Jakarta: Raja Grafindo Persada, 2010. 2. Nana Sudjana dan A. Rivai, Media Pengajaran. Bandung: Sinar Baru Algesindo, 2011. 3. Arief Sadiman, Media Pendidikan Pengertian, Pengembangan dan Pemanfaatannya. Jakarta: Raja Grafindo Persada, 2000 4. Muhammad Noer, 2012, Slide Inspiratif: Bagaimana Merancang Slide yang Menarik, Profesional dan Tampil Beda 5. Meigs, T. 2003. Ultimate Game Design: Building game worlds. California: McGraw-Hill/Osborne. 6. Zichermann, G. and Cunningham, C., 2011, Gamification by Design: Implementing Game Mechanics in Web and Mobile Apps, Canada: O'Reilly Media, Inc 7. Clark, R.C. and Mayer, R.E., 2016, e-Learning and the Science of Instruction: Proven Guidelines for Consumers and Designers of Multimedia Learning, USA: Wiley. 8. Hernandez, M. & Joe, K, 2010, Development and Assessment of a Chemistry Based Computer Video Game as a Learning Tool, (Online), (http://www.eric.ed.gov/ERICWebPortal/search/)		

Prepared by:	Verified by:	Authorized by:
		
Person responsible for the module	Student representative	Coordinator Program