The International Seminar on ICT for Education 2009 Yogyakarta State University, Indonesia 13 – 14 February 2009

THE DEVELOPMENT OF AN ADAPTIVE E-LEARNING SYSTEM BASED ON THE LEARNING STYLE DIVERSITY OF VISUAL-AUDITORY- KINESTHETIC

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2009

YOGYAKARTA STATE UNIVERSITY











AES Definition

- AES can be defined as all hypertext and hypermedia systems that accommodate some student characteristics into a student model and apply this model to adapt various learning material presentations.
- AES is used to enhance learning activity in webbased distance learning environment.

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Learning Styles				
Preference	Description	Recommended Representation		
Auditory	Preference to listen to instructional content	PowerPoint-style presentations with synchronous audio		
Visual	Preference to perceive materials as pictures	Diagrams, illustrations, graphs, flowcharts, animations		
Kinesthetic	Preference to interact physically with learning material	Interactive multimedia elements: puzzles, drag & drop, fill-ins, small games		

Learning Styles			
Preference	Description	Recommended Representation	
Sequential	Step by step logically to present material, outline the material in order	 Step by step to present material Constrict links 	
Global	Large picture before detail, large jump, context of the subject	 Give big picture of the course Provide all the links 	













Teacher View				
21				
Format @ Number of wee ks/tepics	Adaptive format			
Course start date 🕐	10 - January - 2009 -			
Hidden sections 🧿	Hidden sections are shown in collapsed form 💌			
News items to show 🧿	5 🗸			
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	Teacher View
23	
	Adaptive ⊡ Learning ያ?⊛ ≼ ×← ↑
	You are viewing: All Students Settings
	The International Seminar on ICT for Education 2009 Yogyakarta State University, 13 – 14 February 2009

T Adaptive Learning Se	eacher View	
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Quiz Score Limit 5		Save changes
	List of Styles	
 Style Group 1 Visual Auditory Kinaesthetic Style Group 2 Global Sequential 		

Student View				
Adaptive 3		You are logged in as Herman Student (Logout)		
Adaptive ► CF101 ► Questionnai	re			
	Questionnai	re Completed		
Result				
Style Group 1				
Visual	: 0			
Auditory	: 2			
Kinaesthetic	: 1			
Style Group 2				
Global	: 2			
Sequential	: 0			
Due to your que Global format.	estionnaire result, you	will take this course in Auditory -		
		>>		
The I Yogy	nternational Semina vakarta State Univers	r on ICT for Education 2009 sity, 13 – 14 February 2009		

Adaptive 3			You are logged in a	s Herman Student (Logout
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Participants		III News forum		(No news has been posted yet)
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Adaptive 3			You are logged in as Hern	nan Student (Log
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	17 January 2009 20:49:43	Style Group 1 Ovisual : 1 Auditory : 1 Kinaesthetic : 0 Style Group 2 Global : 1 Sequential : 1	Visual - Global	

Adaptive Elearning - Mozilla Firefox			
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Adaptive Elearning	Home	Daftar	Login
Adaptive Elearning adalah sistem elearning yang mampu mengadaptasi tampilan materi pembelajarannya sesuai dengan karakteristik peserta didik. Melalui elearning ini diharapkan para peserta didik dapat belajar secara optimal karena mereka mendapatkan materi pembelajaran sesuai dengan yang dibutuhkan. Materi yang disajikan dalam elearning ini tergantung dari kecenderungan gaya belajar peserta didik. Setelah peserta didik login dan memilih mata pelajaran, mereka akan mengisi kuesioner sehingga sistem akan mengidentifikasi bagaimana kecenderungan mereka. Kecenderungan gaya belajar dikategorikan menjadi tiga, yakni Visual, Auditory, dan Kinestetik.	Reso P Flor Flor Flor Ele P Ele P E-le P E-le P Per P Per	wchart (wchart s wchart s s arning s earning rsonal V rsonal B	Guru Siswa Jogja UNY Vebsite Blog
Skor hasil kuesioner akan menentukan apakah seorang peserta didik akan mendapatkan materi pembelajaran dengan orientasi Visual, Auditory atau Kinestetik. Dengan demikian dia akan mempelajari materi sesuai dengan keorenderungan gaya belajargua	Onlin	ne Use	rs 🛛
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