





Universidad de Alcalá













Pathway in Enterprise Systems Engineering (PENS)

Innovative TLA techniques

Georgios Dafoulas

Monday, 23/07/2018 Alcala de Henares

Agenda

- 1. SCATE Pedagogic model
- 2. Moodle for e-learning & blended learning
- 3. Virtual Worlds
- Gamification (virtual team projects) 4.
- 5. Role Playing (KPMG)
- 6. Student Observable Behaviours (SOBs)
- 7. Student Profiling
- 8. Social Learning Networks
- 9. Learning analytics
- 10. Augmented Reality (Google Glass)
- **11. Smart Learning Environments**





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SCATE Pedagogic model

- Scope
- Content
- Activity
- Think
- Extra





CASE STUDY

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Moodle for e-learning & blended learning

🕕 Cristiano Maia 👥 *	
Home My courses Study Resources Turnitin Help mythiltab Help	Re: Information Systems' components by Yash Kakkar - Thursday, 13 October 2016, 5:13 PM
Hone + 2016-17 851001 Boorness Information Systems in P> Week 2 +> Weekly Activities [forum] Image: Comparison of Compari	The Hardware that can be used to create the business information system like the mouse which will be used to move the information to one place another and keyboard as well so that the information can be added that is needed for the u. Data can be used to input the information on the information system this can be the data that the company needs from the customer like for example personal detail and if they are a new or current customer. This can also be used to find what offers are available for that customer if the user wants to input the data on the information system. Permalink Show parent Edit Split Delete Reply Export to portfolio Re: Information Systems' components by Cristiano Mala - Tuesday, 25 October 2016, 1:01 PM That is a good start but the answer is not completed. You are missing some components. Can you elaborate on them, please?
	Permalink Show parent Edit Split Delete Reply Export to portfolio
Permalink Edit Delete Reply Export to portfolio Re: Information Systems' components Information Composed Transfer: 11 October 2016, 152 2014	Re: Information Systems' components by Shelly illico - Tuesday, 8 November 2016, 10:54 AM
Construction of the series	Information systems components Components of information systems are human, hardware, data, software and process. Hardware is physical components of a computer system such as motherboard, fan, power supply system, DVD- drive and many other. Software are programs that performs activity or specific tasks. Data is raw facts such as numbers and characters. Process is a guidance step by step which must be followed to let the system works. Then there is Human is feedbacks given to managers and users. It can be different divided into three sectors: End-users Internal Users External Users
Re: Information Systems' components by Cristiano Maia - Tuesday, 25 October 2016, 12:59 PM	Re: Information Systems' components by Cristiano Maia - Tuesday, 8 November 2016, 11:07 AM
Good examples! You just missed the Human factor. What would you have to add about it? Permalink Show parent Edit Split Delete Reply Export to portfolio	Another good answer, keep up the good work!

Co-funded by the

Communication modes

	(T) No of threads	
	(B) No of branches per thread	
Status GROUP4-Subject	(I) No of initiators	
1.1 GASsigning a facilitator	(P) No of posts per thread	
🕨 5/5 👘 🔍 Task 1: Competition	(R) No of replies per thread	
🕨 49/49 🔲 🤍 Tásk 2: Job Ad vert	(L) Max level - deepest branch	
🕨 28/28 🔲 🔍 Tasle 3 :- Centerifugal Force	(W) Total Text Size	
🕨 3 4/34 🗖 🔍 Facilitator	(S) Average Text Size	
2/2		
🕨 2/2 🗖 🧠 Group 4 Home Page	(A) Additions (1) Diversity	
🕨 68/68 🗖 🔍 Task 4: Group ware Investi	(B) Richness	
Status GROUP6-Subject	(I) Proactive learning	
▶ 5/17 Ц Assigning a facilitatar	(P) No of posts per threa	ad ·
🕨 53/54 🛄 🤍 Task 1: Competition	(R) Interactivity	
▶ 32/23 🗖 🤍 Tásk 2: Job Ad vert	(L) Depth	
🕨 1103 . 📮 . 🔍 Task 3:: Centrifugal Force	(M) Deptin	
🕨 4/5 👘 🦳 The first Three Tasks, Gr	(VV) Participation	
2/2 Are group six ready to st	(S) Motivation	
• род · · 🗋 - Qtasks 'outcome.		
🕨 47/47 🔲 🤍 Tásk 4: Group Ware Investi	· · · · · · · ·	



Computer Assisted Assessment





Use of rankings

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	Your First Name :	Your First Name : Your Test Marks :							
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Total Score: 320 Please complete the Evaluation to see your Rank



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Virtual Worlds



Virtual Worlds





Virtual Worlds



Young Mandrake organisation sets up everything in the hospital

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Gamification (virtual team projects)



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	Aproda 05/12/07	Manates 05/12/07	Chat
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Erasmus+ Programme of the European Union



GSD interaction (patterns) monitoring of JMSE pilot teams





GSD interaction (patterns) monitoring of JMSE pilot teams





GSD project management monitoring of JMSE pilot teams



GSD communication frequency monitoring of JMSE pilot teams

Erasmus+ Programme

of the European Union



Gamification (virtual team projects)





Co-funded by Erasmus+ Programme of the European Union

http://www.pens.ps – Pathway in Enterprise Systems Engineering

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- Synthesis module (practice skills)
- Role playing (5 expert groups)
- Workshop delivery (case studies)
- Scenario specific (419 scam)
- Investigations in:
 - Chat log visual analytics
 - Social networks
 - Emails
 - Browser analysis
 - Hard disk investigation



- Key aspects:
 - The actual investigation
 - The role playing scenario (sample of an actual group report)
 - The involvement of KPMG and EY in assessment



Final year BSc Computer Forensics students visit Canary Wharf for a Dragon's Den-style event at the professional services firm

Third year students on the Computer Forensics degree at Middlesex gave their careers skills a boost recently, when they presented their work to managers at KPMG in London's Canary Wharf.

During the day-long 'business pitching' event, five groups of students each gave a presentation and demonstration of their work in a bid to secure a hypothetical contract for their forensic computing services.

Students presented their latest project in which they investigate a replica Nigerian internet café at the centre of an email fraud scam. After raiding the 'café', students seized computers, memory sticks and hard drives before analysing the materials to create a case against the fraudsters.





They presented their findings at KPMG, and managers from the professional services firm then assessed the students based on the accuracy and professionalism of their work. Vouchers worth £200 were awarded to the students who gave the best presentations.

Anthonia Essien was one of the students to present at KPMG, and said that she found the experience very helpful in terms of preparing for job interviews after graduation.

"It helped me realise that I am capable of getting the job I want at a firm as powerful as KPMG," she said.

Fellow student Francis Simpson agrees. "The thing I enjoyed the most was the opportunity to present to a senior director of one of the Big Four," he said. "If I can present to him, then I can present to anybody."





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Student Observable Behaviours (SOBs)

Middlesex University London							Lo	gged in as Christiano Maia (C.Maia@mdx.a
Dashboard Staff	Students	Topics	SOBs	Observe 👻	Attendance 💚	Reports 💚	Logout	
178 Total SOBs	5 Total Staff	67 Total Stu	dents					
Overall Progress								Filter
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Threshold Element 1 - Group Join a group 03.10.2016 23.10.2016 <u>70</u> Report Threshold Element 5 -W1) Create a Facebook Account 03.10.2016 23.10.2016 71 2 Eacebook 3 Threshold Element 5 -W1) Create a Linkedin Account 03.10.2016 23.10.2016 67 LinkedIn 4 Threshold Element 1 - Group Send 10 emails to the companies 24.10.2016 29.10.2016 <u>64</u> Report 5 Threshold Have an interview confirmation 06.11.2016 64 Element 1 - Group 31.10.2016 Report Element 1 - Group Do the interview 13.11.2016 6 Threshold 07.11.2016 60 Report 21.11.2016 27.11.2016 56 Threshold Element 1 - Group Produce interview notes in writing Report 8 Threshold Element 5 -W1) Group to identify an organisation to be used as a case study 10.10.2016 16.10.2016 69 Facebook 9 Threshold Element 5 -W1) Group to discuss plans for interview with manager / strategis 10.10.2016 16.10.2016 <u>67</u> Eacebook 10 Threshold Element 5 -W1) Group to discuss plans for research in published works 10.10.2016 16.10.2016 <u>67</u> Facebook 11 Threshold Element 5 -W1) Individuals to specify how they are contributing to the organisation's strategy 10.10.2016 16.10.2016 <u>64</u> LinkedIn 12 W1) Individuals to specify how they are contributing to the organisation's strategic management Threshold Element 5 10.10.2016 16.10.2016 66 LinkedIn 13 Threshold Element 1 - Group Create questions for interview 17 10 2016 06 11 2016 64 Report 14 13.11.2016 Threshold Element 1 - Group First draft shown in lab 07.11.2016 <u>61</u> Report 15 Threshold Element 1 - Group Second draft shown in lab 28.11.2016 04.12.2016 <u>61</u> Report

👙 SOB

🔶 Topic

SOBID 🖕 Level

Progress of all students Vs Progress expected by 27.04.2017





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Student Profiling





Student p



Team Role Summary Descriptions

Team Role	Contribution	Allowable Weaknesses
Plant	Creative, imaginative, free-thinking. Generates ideas and solves difficult problems.	Ignores incidentals. Too preoccupied to communicate effectively.
Resource Investigator	Outgoing, enthusiastic, communicative. Explores opportunities and develops contacts.	Over-optimistic. Loses interest once initial enthusiasm has passed.
Co-ordinator	Mature, confident, identifies talent. Clarifies goals. Delegates effectively.	Can be seen as manipulative. Offloads own share of the work.
Shaper 🥥	Challenging, dynamic, thrives on pressure. Has the drive and courage to overcome obstacles.	Prone to provocation. Offends people's feelings.
Monitor Evaluator	Sober, strategic and discerning. Sees all options and judges accurately.	Lacks drive and ability to inspire others. Can be overly critical.
Teamworker	Co-operative, perceptive and diplomatic. Listens and averts friction.	Indecisive in crunch situations. Avoids confrontation.
Implementer	Practical, reliable, efficient. Turns ideas into actions and organises work that needs to be done.	Somewhat inflexible. Slow to respond to new possibilities.
Completer Finisher	Painstaking, conscientious, anxious. Searches out errors. Polishes and perfects.	Inclined to worry unduly. Reluctant to delegate.
Specialist	Single-minded, self-starting, dedicated. Provides knowledge and skills in rare supply.	Contributes only on a narrow front. Dwells on technicalities.







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www.belbin.com

Student profiling – MBTI

What's Your Personality Type?

Use the questions on the outside of the chart to determine the four letters of your Myers-Briggs type. For each pair of letters, choose the side that seems most natural to you, even if you don't agree with every description.

 Are you outwardly or i Could be described as talkative, outgoing Like to be in a fast-paced environment Tend to work out ideas with others, think out loud Enjoy being the center of attention then you prefer Extraversion 	nwardly focused? If you: • Could be described as reserved, private • Prefer a slower pace with time for contemplation • Tend to think things through inside your head • Would rather observe than be the center of attention then you prefer	ISTJ Responsible, sincere, analytical, reserved, realistic, systematic. Hardworking and trustworthy with sound practical judgment. ISTD Steppentary of the sound practical judgment. Steppentary of the sound practical judgment. Steppentary of the sound practical judgment.	ISEFJ Warm, considerate, gentie, responsible, pragmatic, thorough, Devoted caretakers who enjoy being helpful to others.	IRANERS Idealistic, organized, insightful, dependable, compassionate, gentle. Besk harmony and cooperation, enjoy intellectual stimulation IRANERS Sensitive, creative, idealistic, perceptive, caring, loyal. Value inner harmony and personal growth, focus on dreams and possibilities.	INDEL Innovative, independent, strategic, logical, reserved, insightful, Driven by their own original ideas to achieve original ideas to achieve original ideas to achieve original ideas to achieve mprovements.	 3. How do you prefer to Make decisions in an impersonal way, using logical reasoning Value justice, fairness Enjoy finding the flaws in an argument Could be described as reasonable, level-headed then you prefer Thinking 	make decisions? If you: • Base your decisions on personal values and how your actions affect others • Value harmony, forgiveness • Like to please others and point out the best in people • Could be described as warm, empathetic then you prefer Feeling
 2. How do you prefer to ta Focus on the reality of how things are Pay attention to concrete facts and details Prefer ideas that have practical applications Like to describe things in a specific, literal way then you prefer Sensing 	 ake in information? If you: Imagine the possibilities of how things could be Notice the big picture, see how everything connects Enjoy ideas and concepts for their own sake Like to describe things in a figurative, poetic way then you prefer Note the provide the provided of the prov	ESTPP Outgoing, realistic, action-oriented, curious, versatic, spontaneous. Pragmatic problem solvers and skillful negotiators. ESTJ Efficient, outgoing, analytical, systematic, dependable, realistic, Like to run the show and get things done in an orderly fashion.	Playful, enthusiastic, friendly, spontaneous, tatful, flexible. Having istoring common sense, enjoy helping people in tangible ways. PESEB Friendly, outgoing, reliable, conscientious, organized, practical. Seek others, enjoy being active and productive.	EDDE Enthusiastic, creative, spontaneous, optimistic, supportive, playful Value inspiration, enjoy starting new projects, see potential in others DEDE EDDE String, enthusiastic, idealistic, organized, diplomatic, responsible. Skilled communicators who value connection with people.	ENTROP Inventive, enthusiastic, strategic, enterprising, ingivy new ideas and challenges, value inspiration.	 4. How do you prefer to l Prefer to have matters settled Think rules and deadlines should be respected Prefer to have detailed, step-by-step instructions Make plans, want to know what you're getting into then you prefer J Judging 	ive your outer life? If you: • Prefer to leave your options open • See rules and deadlines as flexible • Like to improvise and make things up as you go • Are spontaneous, enjoy surprises and new situations then you prefer P Perceiving

Student profiling – Adize's

Dimension	Р	А	E	I
Time Focus	Immediate	Past	Future	Present
Task Focus	Results	Process	Results	Process
Coordination of	Goals	Systems	Ideas	People
Scope	Individual	Systemic	Global	Local
Thinking	Concrete	Abstract	Possibilities	Relationships
Restraint	Unrestrained	Restrained	Unrestrained	Restrained
Regulation	Controlled	Controlled	Free	Free
Reasoning	Literal	Literal	Metaphorical	Metaphorical
Reference	Specific	Specific	Approximate	Approximate
Concerns	External	Internal	External	Internal
Positioning	Central	Peripheral	Central	Peripheral



Student profiling – VARK



Heal Fragmust Program the Homeschool Fundp. // OWV. pens.ps – Pathway in Enterprise Systems Engineering

Google Glass effectiveness and suitability for the task

- Average responses across all seven questions were quite similar for both modules with 71.4% and 71.9%.
- The simplicity of the device scored higher for both modules.
- The most challenging activity was to read from the screen while wearing the Google Glass.



Google Glass classified according to Belbin profiles

- 'Plants' seem to provide the lowest scores in most of the four tasks performed with the help of Google Glass.
- 'Implementers' and 'Monitor Evaluators' seem to find the use of Google Glass quite positive when performing the majority of the tasks.
- 'Coordinators' were the ones who found that Google Glass were comfortable to wear and easy to navigate more than anybody else.
- 'Shapers' were the ones who found it easier to use.

Completer			Monitor		Team		
Finisher	Coordinator	Implementer	Evaluator	Plant	Investigator	Shaper	Worker
64	51	105	49	41	60	77	73

	-
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					Belbin Role				
	All	Completer Finisher	Coordinator	Implementer	Monitor Evaluator	Plant	Resource Investigator	Shaper	Team Worker
were comfortable to wear	6.97	7.16	7.24	6.87	6.59	6.32	6.87	6.88	7.00
were easy to navigate	7.40	7.48	7.71	7.57	7.45	7.59	6.97	7.51	7.25
were simple to use	7.71	7.67	7.86	7.70	7.63	7.68	7.47	7.96	7.55
while browsing on computer screen	6.97	7.20	7.27	7.19	7.04	6.88	7.07	7.00	6.85
while reading on computer screen	6.79	7.09	6.96	7.00	6.73	6.78	7.00	6.91	6.58
while showing content on computer screen	6.92		7.25	6.92	6.86	6.83	7.00	7.03	6.75
while writing on computer screen	6.97	7.16	7.33	7.22	6.90	6.83	7.07	6.86	6.93

Google Glass classified according to MBTI profiles

- Virtuosos, also known as ISTP profiles (Introversion-Sensing-Thinking-Perception) and 'Protagonists' also • known as ENFJ (Extraversion-Intuition-Feeling-Judgment) seem to be the types that were really impressed with the technology and found it easy to use and helpful across most tasks.
- The 'Debater' type also known as ENTP (Extraversion-Intuition-Thinking-Perception) are the ones with the • most negative response for comfort, ease of use and ability to read while wearing the Google Glass.
- 'Mediators' known as INFP (Introversion-Intuition-Feeling-Perception) are more positive across most questions.
- 'Commanders' known as ENTJ (Extraversion-Intuition-Thinking-Judgment) provide more negative • responses.





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Google Glass classified according to VARK profiles

• Read-write and kinaesthetic profiles tend to provide similar responses on the way Google Glass facilitates the different learning tasks.



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Social Learning Networks

BIS3300_1617_13 @BIS3300_1617_13 · Mar 1



- Integrator - 12

2

11

20.5



Bis3300201610hen01



Week 7 - Group to determine practices for optimising social media use for agining competitive advantage (provide epecific examples)

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			Chronological
Visa adv gen part leac corr Like	ar Quqalla The use antage as it provid erating greater exp therships with othe ds especially if one upared to another of e - Reply - 16 Nove	e of social media can b es the following benef posure, increased sea r organisations and al organisation's compe one. mber at 12:12	e used for gaining competitive its to organisations such as rch engine rankings, gained new so manage to generate qualified titor lacks the use of social media
Dhi com eng med be a Like	ran Vekaria Practio npetitive advantage ines, This helps by dia or advertise mo aiming for scalabili e · Reply · 16 Nove	ces for opitimising soc es can be thinking of so r organisations giving re in certain areas of t ty of solutions and also mber at 15:53 - Edited	ial media use for gaining ocial media as vertical search out feedback posts on social he product. This organisation will o affordability of models/ products.
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Like · Reply · 16 November at 10:38

Dhiran Vekaria Also the most suitable can also be differentiation because most organisation tend to sell a product which is unique and is different from everyone else. This way more customers will be interested.



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CASE STUDY

- 1. SCATE Pedagogic model
- 2. Moodle for e-learning & blended learning
- 3. Virtual Worlds
- 4. Gamification (virtual team projects)
- 5. Role Playing (KPMG)
- 6. Student Observable Behaviours (SOBs)
- 7. Student Profiling
- 8. Social Learning Networks
- 9. Learning analytics
- 10. Augmented Reality (Google Glass)
- 11. Smart Learning Environments





Learning analytics – Twitter visualisation (isolated students)





Learning analytics – Twitter visualisation (student cohort links to the outside world)





Learning analytics – JMSE pilots

Node type

* Topic

Ali Asfour

Day



16SUGSD2





Learning analytics – JMSE pilots

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Augmented Reality (Google Glass)

SAFE

Supporting Assessment Feedback Engagement with Optical Head-Mounted Devices (OHMD)

Student:

Cristiano Maia

Supervisor:

George Dafoulas

Augmented Reality (Google Glass)

of the European Union

Google Glass experiment – Voting System

Google Glass experiment – Presentation Feedback

Google Glass experiment – Student Experience

http://www.pens.ps - Pathway in Enterprise Systems Engineering

Google Glass experiment – Learning portfolios & plagiarism detection

Google Glass experiment – Presentation Feedback

Google Glass experiment – Feedback on Feedback

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11. <u>Smart Learning Environments</u>

Smart Learning Environments -Architecture

Lab set-up (sensors)

of the European Union

Lab set-up (optimum arrangement)

Lab set-up (project meeting)

Lab set-up (project meeting)

Co-funded by the Erasmus+ Programme of the European Union

Lab set-up (presentation)

Dashboard view

Cabling & components for standalone sensor

Hard-casing 3D print prototype

Hard casing – laser cut versus 3D print

Assembly of battery pack, board, control button and LED operation

Considering the use of a soft pouch casing (yes this is a plastic bag from TESCO's...)

Smart Learning Environments – The design team

g.dafoulas@mdx.ac.uk

Thank you for your attention!

