Lecture Activity

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Why a lecture given by students?

Pragmatic things

Average retention rate (after 24h) for different learning techniques:

Lecture	5%
Reading	10%
Audio-visual	20%
Demonstration	30%
Discussion group	50%
Practice by doing	75%
Teach to others	90%

Taken from the National Training Laboratories, Bethel Maine USA.

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Presentation: Lecture activity

- What do we expect?
  - Academic presentation (oral and writing) on a specific topic
  - Literature search and analysis
  - Comprehension and understanding

- Scheduling

- **Mark**: 50% document + 50% presentation (ppt and notes) and interaction
  - Interaction = prepare 1 "good" question for the twin group
  - Oral presentation = 20 minutes

Presentation: Lecture activity

Lectures given by students (groups provided by teachers)
16/11/2018 & 30/11/2018 & 14/12/2018 (oral presentation)

- 15' problem statement delivery (guide)
- 2h searching for additional information (group)
- 2h reviewing and understanding the info (group)
- 2h searching for consensus. Preparation of 1st draft doc (group)
- 30' control with teachers (guide)
- 7h doc and presentation preparation (group)
- 15' last review of doc and presentation (guide)
- 2h last corrections and tests (group)
- 4h classroom presentation (control)

Agenda

setembre 2018

	dl.	dt.	dc.	dj.	dv.	ds.	dg.
						1	2
	3*	4*	5*	6*	7*	8	9
	10	11	12*◇	13*◇	14*◇	15	16
	17	18	19	20	21	22	23
A	24	25	26	27	28	29	30

octubre 2018

	dl.	dt.	dc.	dj.	dv.	ds.	dg.
B	1	2	3	4	5	6	7
A	8	9	10	11	12	13	14
B	15	16	17	18	19	20	21
A	22	23	24	25	26	27	28
	29	30^{djB}	31^{dvA}				

- ☐ Lectures
- ☐ Lab sessions
- ☐ Seminars
- ◯ Lecture activity

novembre 2018

	dl.	dt.	dc.	dj.	dv.	ds.	dg.
				1	2	3	4
B	5	6	7	8	9	10	11
A	12	13	14	15	16	17	18
B	19	20	21	22	23	24	25
A	26	27	28	29	30		

desembre 2018

	dl.	dt.	dc.	dj.	dv.	ds.	dg.
A						1	2
B	3	4	5	6	7	8	9
A	10	11	12	13	14	15	16
B	17	18	19	20	21	22	
	24	25	26	27	28	29	
	31						

gener 2019

	dl.	dt.	dc.	dj.	dv.	ds.	dg.
		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31			

Assignments

- Live random assignments (Matlab)

```matlab
clear, clc; rand('state',sum(100*clock))

% Load students list
vibot=importdata('students_MAIA18.xlsx');
list=vibot;

% Random groups
groups = randperm(size(list,1));

% Random lecture assignments
topics={'Cancer: breast/prostate','Cancer: Lung/Brain tumor','Neurodegenerative:Parkinson/MS',
        'Neurodegenerative:Autism/Schizophrenia','Brain vascular'};
set_topics=[1:5,1:5,1:4,3];
pos_topic=randperm(15);

for i=1:15,
    disp(sprintf('Group %d: %s and %s --> Assignment: %s \n ',i,list{groups(i*2-1),1},
    list{groups(i*2),1},topics{set_topics(pos_topic(i))}));
    pause
end
save groups_lecture_activity18.mat list groups topics set_topics pos_topic
```

Topics

- CAD systems in cancer (breast/prostate, lung/brain tumour)

- CAD systems in neurodegenerative diseases (Parkinson/Alzheimer/Multiple Sclerosis, Autism/Schizophrenia)

- CAD systems in brain vascular diseases (Stroke, Traumas)

Group assignments / topics

Group 1: ALYAFI, BASEL and HASAN, MD.KAMRUL --> Assignment: Cancer: Lung/Brain tumor

Group 2: NGIGE, KENECHUKWU HENRY and KHAN, AMJAD --> Assignment: Neurodegenerative:Autism/Schizophrenia

Group 3: GENKE, ELIZAVETA and TOSHPULATOV, ZAFAR DILSHOD O'G'LI --> Assignment: Brain vascular

Group 4: KERMAKUNOVA, NURGUL and BERRADA, ALI --> Assignment: Cancer: Lung/Brain tumor

Group 5: VANEGAS CAMARGO, DOIRIEL NORELLA and VALENCIA RODRÍGUEZ, LILIANA --> Assignment: Neurodegenerative:Autism/Schizophrenia

Group 6: UNGAN, GÜLNUR SEMAHAT and TURATBEK KYZY, CHOLPON --> Assignment: Neurodegenerative:Autism/Schizophrenia

Group 7: SEITKULOV, ADILET and ZOTOVA, DARIA --> Assignment: Cancer: breast/prostate

Group 8: TUSHAR, FAKRUL ISLAM and KOZYNETS, OLEH --> Assignment: Cancer: Lung/Brain tumor

Group 9: BURTON, BRIANNA BROOKE and DAHAL, LAVSEN --> Assignment: Neurodegenerative:Parkinson/MS

Group 10: HERRERA MURILLO, MARIA NATALIA and DI SANO, VALERIO --> Assignment: Neurodegenerative:Parkinson/MS

Group 11: RAKIC, MLADEN and YAWSON, AMA KATSEENA --> Assignment: Cancer: breast/prostate

Group 12: KHALID, FAHAD and BIRHANU, MAHLET ALIE --> Assignment: Brain vascular

Group 13: MELISOV, BEKTUR and PAN, KONSTANTIN --> Assignment: Neurodegenerative:Parkinson/MS

Group 14: DESMOULINS, GASPARD and YRYSOV, BEKSULTAN --> Assignment: Cancer: breast/prostate

Group 15: MERLET, ANTOINE JACKY RENÉ and BEZERRA CAVALCANTI ROCKENBACH, MARCIO ALOISIO --> Assignment: Neurodegenerative:Parkinson/MS

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