Faculty of Science - Earth System Science (ESSC_UG)

Course and Teaching Evaluation Individual Report, 2nd Term 2021-2022

Course Code:	ESSC2030_2	**Course Title:**	Introduction to Computational Earth System Science	**Teacher:**	Professor TAN Yen Joe
Class Size:	52	**No. Returned:**	22	**Response Rate:**	42.31%

a. Faculty Affiliation:	*ART*	*BAS*	*EDU*	*ERG*	*LAW*	*MED*	*SCI*	*SSC*	*OTHER*
	0.00% (0)	0.00% (0)	0.00% (0)	0.00% (0)	0.00% (0)	0.00% (0)	90.91% (20)	9.09% (2)	0.00% (0)
b. Level	*Undergraduate*	100.00% (21)	*Postgraduate*	0.00% (0)	*Other*	0.00% (0)			
c. Course Type	*Major required*	*Major elective*	*Minor*	*Elective*	*U Core*	*N/A*			
	27.27% (6)	59.09% (13)	4.55% (1)	9.09% (2)	0.00% (0)	0.00% (0)			
d. Perceived Primary Language Spoken in Class	*English*	*Cantonese*	*Putonghua*	*Others*					
	100.00% (22)	0.00% (0)	0.00% (0)	0.00% (0)					
Perceived Percentage of Usage of English	*51-60%*	*61-70%*	*71-80%*	*81-90%*	*91-100%*				
	0.00% (0)	0.00% (0)	0.00% (0)	18.18% (4)	81.82% (18)				
Perceived Supplementary Language Spoken *(can select more than one)*	*English*	*Cantonese*	*Putonghua*	*Others*	*N/A*				
	9.09% (2)	72.73%(16)	0.00% (0)	0.00% (0)	18.18% (4)				
e. Time Spent on Course Outside Class *(Hrs per week)*	*0-2.0*	*2.1-4.0*	*4.1-8.0*	*8.1-12.0*	*12.0+*	*N/A*			
	13.64% (3)	13.64% (3)	36.36% (8)	22.73% (5)	13.64% (3)	0.00% (0)			
f. Grade Self-Expected	*A*	*A-*	*B+*	*B/B-*	*C+ or below*	*N/A*			
	18.18% (4)	31.82% (7)	27.27% (6)	22.73% (5)	0.00% (0)	0.00% (0)			

		Mean		SD	Quartile				Strongly Disagree	Disagree	Slightly Disagree	Slightly Agree	Agree	Strongly Agree	Total	Invalid Answer	Mean by Self-Expected grade		
		Raw	*Adjusted*		*Q1*	*Med.*	*Q3*		*1*	*2*	*3*	*4*	*5*	*6*			*A/A-*	*B+/B/B-*	*C+ or below*
1	Presentation is clear	**4.05**	**4.35**	**1.55**	**3.50**	**5.00**	**5.00**	%	**13.64**	**9.09**	**0.00**	**22.73**	**45.45**	**9.09**			**3.91**	**4.18**	**0.00**
		4.58	4.81	0.91	3.98	4.75	5.34	#	3	2	0	5	10	2	22				
2	Examples relevant to learning	**3.91**	**4.20**	**1.70**	**3.25**	**4.00**	**5.00**	%	**22.73**	**0.00**	**0.00**	**31.82**	**31.82**	**13.64**			**3.82**	**4.00**	**0.00**
		4.64	4.89	1.05	3.92	4.65	5.53	#	5	0	0	7	7	3	22				
3	Teacher was enthusiastic	**4.27**	**4.60**	**1.54**	**4.00**	**5.00**	**5.00**	%	**13.64**	**4.55**	**0.00**	**18.18**	**50.00**	**13.64**			**4.36**	**4.18**	**0.00**
		5.12	5.34	0.87	4.48	5.40	5.74	#	3	1	0	4	11	3	22				
4	Class participation encouraged	**4.14**	**4.45**	**1.52**	**4.00**	**4.50**	**5.00**	%	**13.64**	**4.55**	**0.00**	**31.82**	**36.36**	**13.64**			**4.18**	**4.09**	**0.00**
		4.94	5.16	0.92	4.41	5.04	5.76	#	3	1	0	7	8	3	22				
5	Communication was effective	**4.09**	**4.40**	**1.65**	**3.75**	**4.50**	**5.00**	%	**18.18**	**0.00**	**4.55**	**27.27**	**31.82**	**18.18**			**4.36**	**3.82**	**0.00**
		4.86	5.09	1.01	3.99	5.02	5.67	#	4	0	1	6	7	4	22				
6	The course was interesting	**4.10**	**4.42**	**1.48**	**3.00**	**4.00**	**5.50**	%	**9.52**	**0.00**	**23.81**	**28.57**	**14.29**	**23.81**			**4.50**	**3.73**	**0.00**
		4.67	4.94	1.01	3.96	4.90	5.50	#	2	0	5	6	3	5	21	1			
7	The course was stimulating	**4.10**	**4.42**	**1.57**	**3.00**	**4.00**	**5.00**	%	**14.29**	**0.00**	**14.29**	**23.81**	**28.57**	**19.05**			**4.00**	**4.18**	**0.00**
		4.74	4.96	0.97	3.97	4.69	5.50	#	3	0	3	5	6	4	21	1			
8	Subject knowledge is enhanced	**4.43**	**4.79**	**1.37**	**4.00**	**5.00**	**5.00**	%	**9.52**	**0.00**	**4.76**	**28.57**	**38.10**	**19.05**			**4.60**	**4.27**	**0.00**
		5.00	5.22	0.88	4.47	5.10	5.76	#	2	0	1	6	8	4	21	1			
9	The course was well-organized	**3.82**	**4.10**	**1.67**	**2.75**	**4.00**	**5.00**	%	**18.18**	**4.55**	**13.64**	**18.18**	**31.82**	**13.64**			**4.00**	**3.64**	**0.00**
		4.58	4.79	0.96	3.90	4.44	5.53	#	4	1	3	4	7	3	22				
10	Clear learning outcomes	**4.41**	**4.75**	**1.47**	**3.75**	**5.00**	**5.00**	%	**9.09**	**4.55**	**9.09**	**9.09**	**50.00**	**18.18**			**4.64**	**4.18**	**0.00**
		4.71	4.88	0.78	4.02	4.69	5.49	#	2	1	2	2	11	4	22				
11	Appropriate assessment method	**4.45**	**4.80**	**1.44**	**4.00**	**5.00**	**5.00**	%	**9.09**	**4.55**	**4.55**	**13.64**	**50.00**	**18.18**			**4.55**	**4.36**	**0.00**
		4.78	5.01	0.90	4.27	4.94	5.37	#	2	1	1	3	11	4	22				
12	Appropriate workload amount	**3.86**	**4.15**	**1.46**	**3.00**	**4.00**	**5.00**	%	**9.09**	**9.09**	**18.18**	**27.27**	**22.73**	**13.64**			**4.27**	**3.45**	**0.00**
		4.63	4.85	0.98	3.88	4.69	5.51	#	2	2	4	6	5	3	22				
	Amount of workload											**Too Much**	**100.00**	8					
												Too Little	**0.00**	0					
13	Recommended readings useful	**2.86**	**3.17**	**1.96**	**1.00**	**2.00**	**5.00**	%	**42.86**	**14.29**	**0.00**	**14.29**	**14.29**	**14.29**			**2.67**	**3.00**	**0.00**
		4.34	4.47	0.96	2.98	3.71	4.34	#	3	1	0	1	1	1	7	15			
14	Content difficulty appropriate	**3.48**	**3.74**	**1.74**	**1.50**	**4.00**	**4.50**	%	**23.81**	**4.76**	**14.29**	**33.33**	**4.76**	**19.05**			**3.70**	**3.27**	**0.00**
		4.36	4.60	1.06	3.35	4.56	5.06	#	5	1	3	7	1	4	21	1			
	Content difficulty											**Too High**	**100.00**	8					
												Too Low	**0.00**	0					
15	Supported by library resources	**3.00**	**3.33**	**2.07**	**1.00**	**2.00**	**5.00**	%	**42.86**	**14.29**	**0.00**	**0.00**	**28.57**	**14.29**			**3.50**	**2.80**	**0.00**
		4.28	4.50	1.06	2.77	3.56	4.16	#	3	1	0	0	2	1	7	15			
16	Supported by IT resources	**3.82**	**4.10**	**1.75**	**2.00**	**4.00**	**5.00**	%	**18.18**	**9.09**	**9.09**	**18.18**	**27.27**	**18.18**			**4.40**	**3.33**	**0.00**
		4.25	4.48	1.10	2.96	3.69	4.40	#	2	1	1	2	3	2	11	11			
17	Satisfaction with course	**3.95**	**4.26**	**1.46**	**3.00**	**4.00**	**5.00**	%	**9.52**	**9.52**	**9.52**	**33.33**	**23.81**	**14.29**			**4.30**	**3.64**	**0.00**
		4.59	4.84	0.98	4.00	4.56	5.43	#	2	2	2	7	5	3	21	1			
18	Satisfaction with teacher	**4.10**	**4.42**	**1.60**	**3.50**	**4.00**	**5.00**	%	**14.29**	**4.76**	**4.76**	**28.57**	**28.57**	**19.05**			**4.10**	**4.09**	**0.00**
		4.85	5.06	0.88	4.35	4.89	5.53	#	3	1	1	6	6	4	21	1			

		Mean		SD	Quartile				Strongly Disagree					Strongly Agree	Total	Invalid Answer	Mean by Self-Expected grade		
		Raw	*Adjusted*		*Q1*	*Med.*	*Q3*		*1*	*2*	*3*	*4*	*5*	*6*			*A/A-*	*B+/B/B-*	*C+ or below*
a	enhanced understanding.	**4.05**	**4.41**	**1.67**	**3.00**	**4.00**	**5.00**	%	**15.79**	**5.26**	**5.26**	**26.32**	**26.32**	**21.05**			**3.90**	**4.22**	**0.00**
		4.46	4.71	1.06	3.79	4.47	5.36	#	3	1	1	5	5	4	19	3			
b	app. online materials	**3.48**	**3.74**	**1.82**	**1.50**	**4.00**	**5.00**	%	**23.81**	**14.29**	**4.76**	**19.05**	**23.81**	**14.29**			**3.40**	**3.55**	**0.00**
		4.30	4.59	1.26	3.38	4.52	5.34	#	5	3	1	4	5	3	21	1			
c	effective online interaction	**4.15**	**4.50**	**1.68**	**3.00**	**5.00**	**5.00**	%	**15.00**	**5.00**	**10.00**	**10.00**	**40.00**	**20.00**			**4.30**	**4.00**	**0.00**
		4.55	4.76	0.95	3.85	4.62	5.24	#	3	1	2	2	8	4	20	2			

Notes

1. 'Invalid answers' include (a) non-response and (b) selection more than one category. All other data are considered valid answers.
2. For each numbered question, top row (not shaded) reports **Course Statistics**, bottom row (shaded) reports **Departmental/Programme/School/College Statistics**.
3. Definitions: (a) **Raw Mean:** mean based on all valid answers (b) **Adjusted Mean**: Mean with bottom 10% valid answers removed; (c) **SD**: Standard Deviation; (d) **Q1**: 25th percentile; **Med.**: Median; **Q3**: 75th percentile; (e) #: number of respondents selecting the respective category; (f) **%**: percentage of # divided by number of valid answers; (g) **Total**: total number of valid answers; (h) **Mean by Expected Grade**: Raw mean based on responses of students expecting the corresponding grade.
4. All statistics, except adjusted means, are compiled based on valid answers.

No.	d) Under the limitation of the currently adopted system, what are some good features of the online teaching of this course? 在現行系統的限制下，本科的網上教學有甚麼優點？	e) Under the limitation of the currently adopted system, in what ways could the online teaching of this course be improved on? 在現行系統的限制下，本科的網上教學有甚麼能改善的地方？	Comments on the Course :	Comments for the Teacher:: (1) Professor TAN Yen Joe
1			good course but two lecturer are both very bad	he is just reading the notes, neither lead us to think nor delve into the teaching content. He always finish very fast, I learn nothing in his lecture.
2				no good features, a bad teacher who cannot explain the use of different codes clearly. He simply just read the PowerPoint slide but did not notice that his part is much more challenging than Andie's part. Students basically cannot understand what he is teaching during the lectures. His Cantonese is hard to understand sometimes when he tried to use Cantonese. I will give him 1 out of 10 marks.
3		Without direct tuition from TA in CW or HW in class or in 329, students easily get lagged behind or require much more time to finish a CW/HW, as well as asking questions which is also less sufficient. The content and pace of this programming course are already quick, and online teaching simply deteriorates the situation. A slower pace or even some cut in syllabus in online mode are recommended. After all, the learning experience is poor if 2030 becomes online teaching and amplified the existing problems.	This course is indeed useful. However, the pace of the course is too fast, especially in online teaching and after L06. Based on feedback from peers' struggles, more content to enhance our debugging technique, and training in functions, loops, and graph-plotting are recommended.	
4			A new course, but the content covers every basics we'd need for the ESSC advance coding courses. I especially appreciate the geoscience and machine learning modules. Highly recommended for all ESSC students instead of taking other coding courses not in python offered by other departments. I put all 6 in the above ratings is because I'm really satisfied with ESSC2030.	Very nice and helpful. Clear explanations.
5			Looking forward to similar courses in higher level	

No.	d) Under the limitation of the currently adopted system, what are some good features of the online teaching of this course? 在現行系統的限制下，本科的網上教學有甚麼優點？	e) Under the limitation of the currently adopted system, in what ways could the online teaching of this course be improved on? 在現行系統的限制下，本科的網上教學有甚麼能改善的地方？	Comments on the Course :	Comments for the Teacher:: (1) Professor TAN Yen Joe
6	no good features with a bad teacher who cannot explain the use of different codes clearly.	change the teacher.	learning curve is not suitable. The last half of the course content is very challenging (Yen Joe's part)	
7	no, time cost larger	many	too harsh	not bad lecturer, good interaction with student.
8	Breakout room of zoom is useful	Lowering the difficulty of the course.	More example can be given, or more basic skills can be teach first (like the concept of programming or the skills of writing code). More guideline at the beginning will be great for beginners to catch up the course, as Google may show a much complicated case which beginners are very difficult to read.	clear explanation
9	No			
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