COURSE ANALYSIS, postgraduate course

Third cycle courses, EECS School, KTH, from 2018

Example of brief course analysis (green text: the same each course offering)

An asterix (*) denotes non-compulsory data.

Course data	
Course name	MAGNETOHYDRODYNAMICS
Course ID	FED3230
Credits	8 hp
Time period for course	VT2020
Teachers	Jan Scheffel (jan.scheffel@ee.kth.se)
Classroom hours	4 x 2
Nr of registered students	3
Examination rate, in %	100

Goals

Global course goals	 When completing the course, the student should be able to Provide the details of the derivation of ideal and resistive MHD equations Describe and explain the domains of validity of one-fluid MHD Demonstrate the basic properties of ideal MHD Give detailed examples of MHD equilibria and their properties Discuss MHD waves Derive the Energy principle Apply the Energy principle to the Rayleigh-Taylor instability
How the course design helps to fulfill these goals	The course is given as a set of four discussion meetings. Each student is expected to have studied the corresponding sections of the course and to have prepared five questions to discuss jointly at the meetings.
	The course design stimulates the students to continual studies. Also, at the course meetings, subject understanding can be obtained in due time.
	A comprehensive set of course problems should be solved at home and defended at a brief oral examination at the end of the course.

Pedagogical development - I

Changes made since previous time course was given No major changes. The course literature is now fully available electronically through KTHB (Primo).

Course evaluation; comments from students

Based on the questionnaire used at the Division. If the course has less than 10 students, the questionnaire can be replaced by informal discussions.

Evaluation response rate*

Overall student view* Positive comments	 "This course is perfect as in introduction to MHD." "explains very well what MHD is."
Negative comments	 "Utöver de frågor man tar med sig till mötena skulle jag gärna ha sett lite mer lärarledda diskussioner. Jag tror att om vi gemensamt hade gått igenom innehållet (som vi redan läst naturligtvis) hade man kunnat få till intressanta diskussioner." "Dessutom hade jag gärna sett lite mer problemlösning (snarare än bara härledningar och teorifrågor).
Pre-knowledge, comments* Course design, comments*	
Literature, comments	 "Good because there are much harder literature" "Bra litteratur, jag tycker att de olika böckerna kompletterade varandra bra." "gav en bra översikt, och att man i de andra böckerna kunde fokusera mer på detaljerna istället för helheten."
Examination, comments	 "Examinationen var bra. Bra att få tydlig feedback på inlämningarna så att man kunde rätta till det senare." "Fine. Preferred actually."
Particularly interesting* comments	

Course teacher's impressions from the evaluation

Comments	Only three students,	but quite in	nteractive during I	learning.
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Course teacher's summary

Overall view	Course worked well.
Positive comments	Appreciated introduction of MHD using continual
	learning.
Negative comments	More teacher led introductions and more problem solving seem desirable.
View on pre-knowledge*	
View on course design*	
View on course material	Fine.
View on examination	Works well.

Pedagogical development - II

Outcome of course changes made since last time course	Course literature is now more appreciated.
was given	
Changes to be made before	• Consider preparing brief introductions to each of the
next time course is given	four meetings in the course.
-	• Possibly introduce some problems for individual activity
	in order to strengthen understanding.