

PX430:Gauge Theories for Particle Physics

[Dashboard](#) / [Courses](#) / [Science](#) / [Physics](#) / [2020/21](#) / [PX430 \(20/21\)](#) / / [Module questionnaire 20/21 \(PX430\)](#) / [Analysis](#)

Module questionnaire 20/21 (PX430)

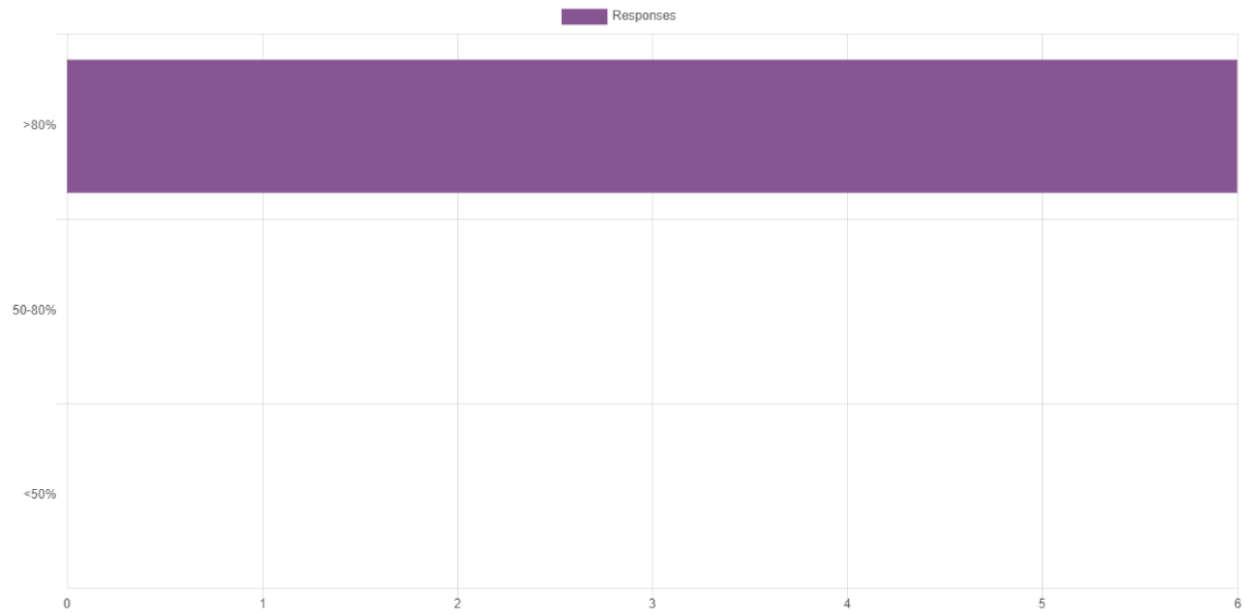
[Overview](#) [Edit questions](#) [Templates](#) [Analysis](#) [Show responses](#)

Export to Excel

Submitted answers: 6 / 37

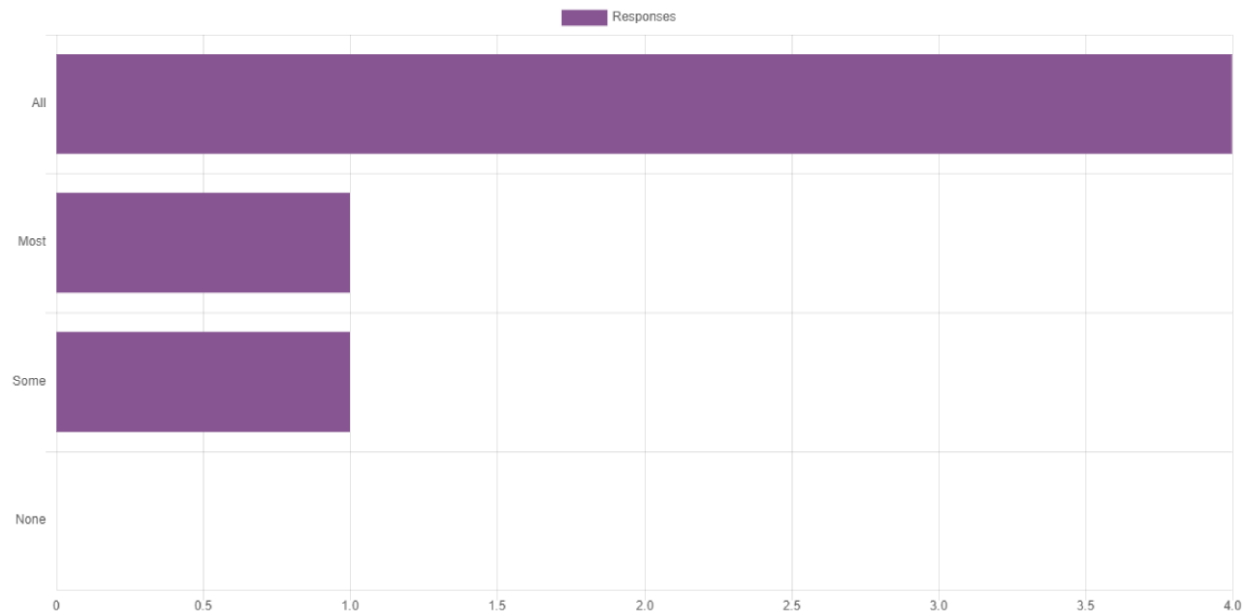
Questions: 21

(Q1) I watched or read through the notes of (...?) of the online lecture material



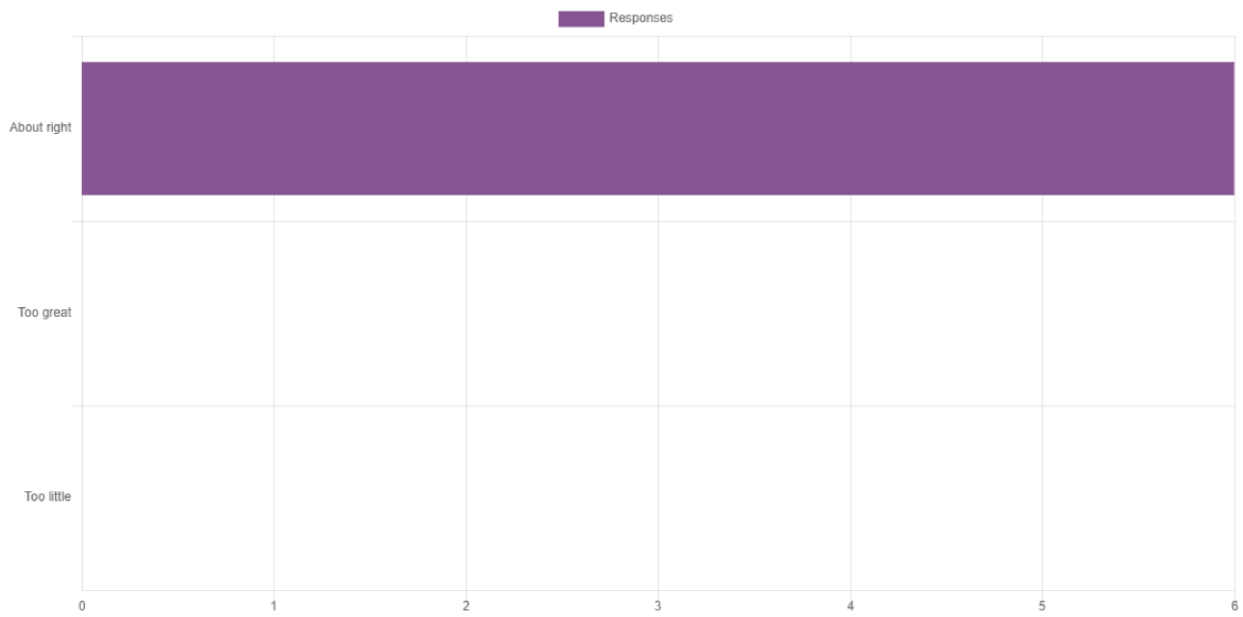
[Show chart data](#)

(Q2) I attended (...?) of the Live events for this module



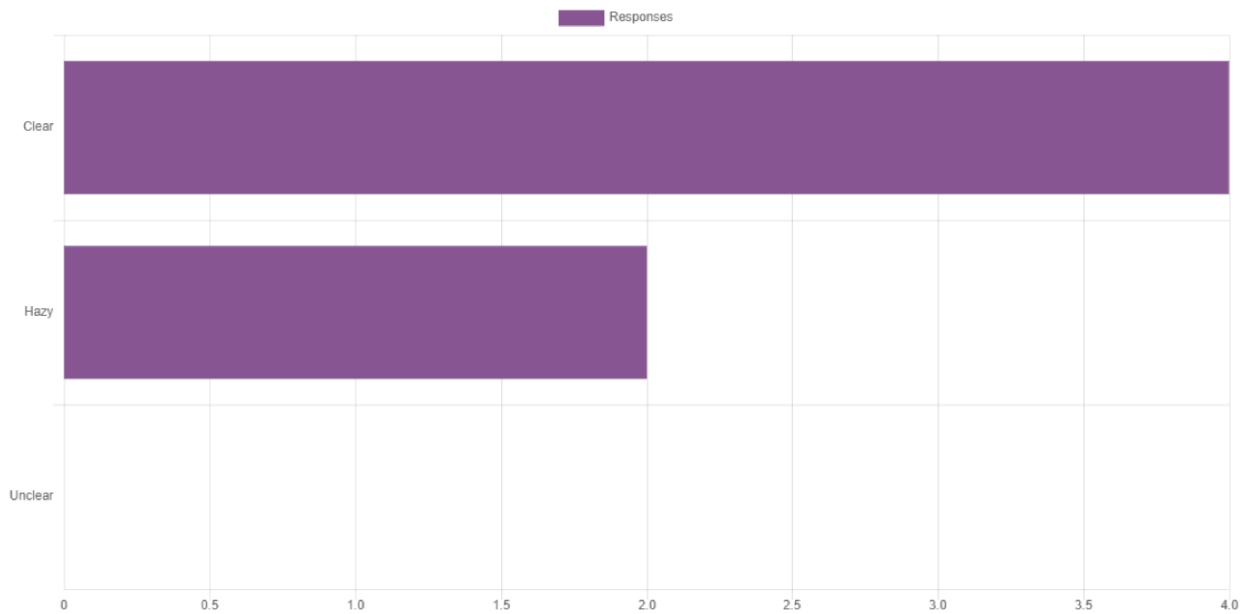
[Show chart data](#)

(Q3) The quantity of material was



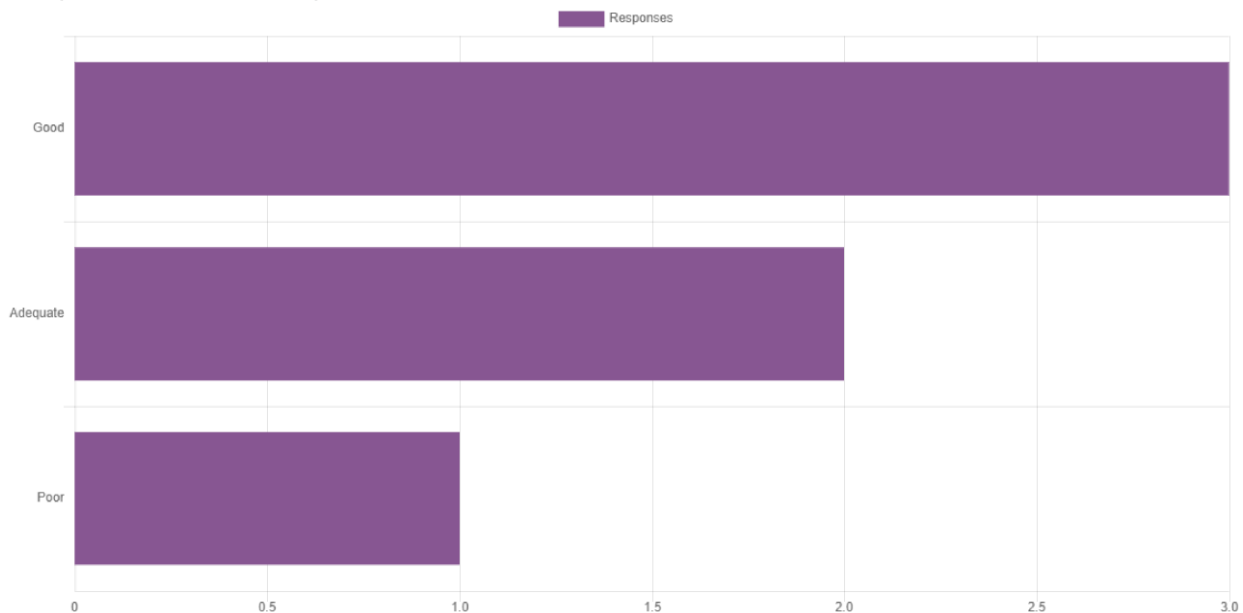
[Show chart data](#)

(Q4) By the end of the module its purpose and direction were



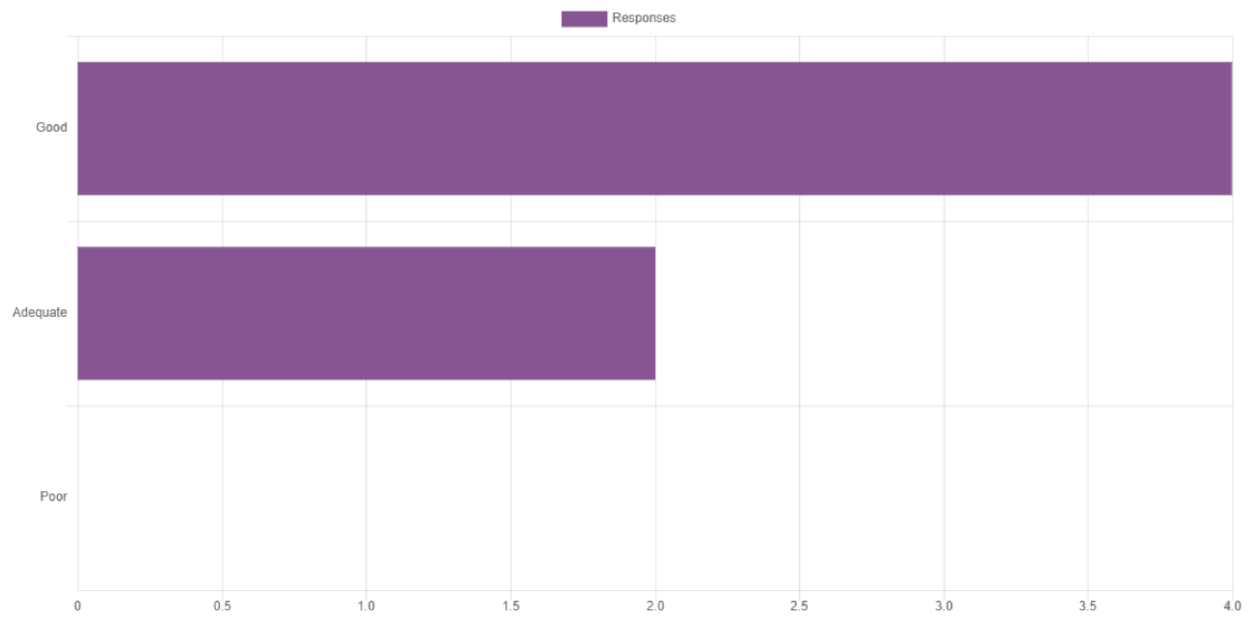
[Show chart data](#)

(Q5) Explanation of new terms and concepts was



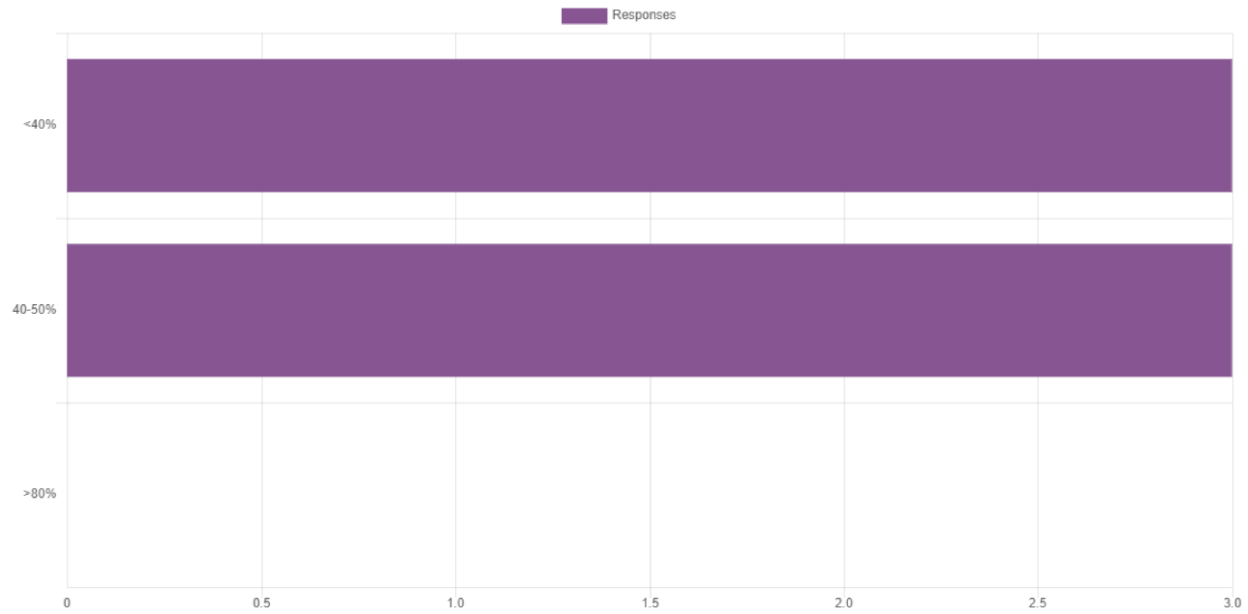
[Show chart data](#)

(Q6) I have a (...?) set of notes



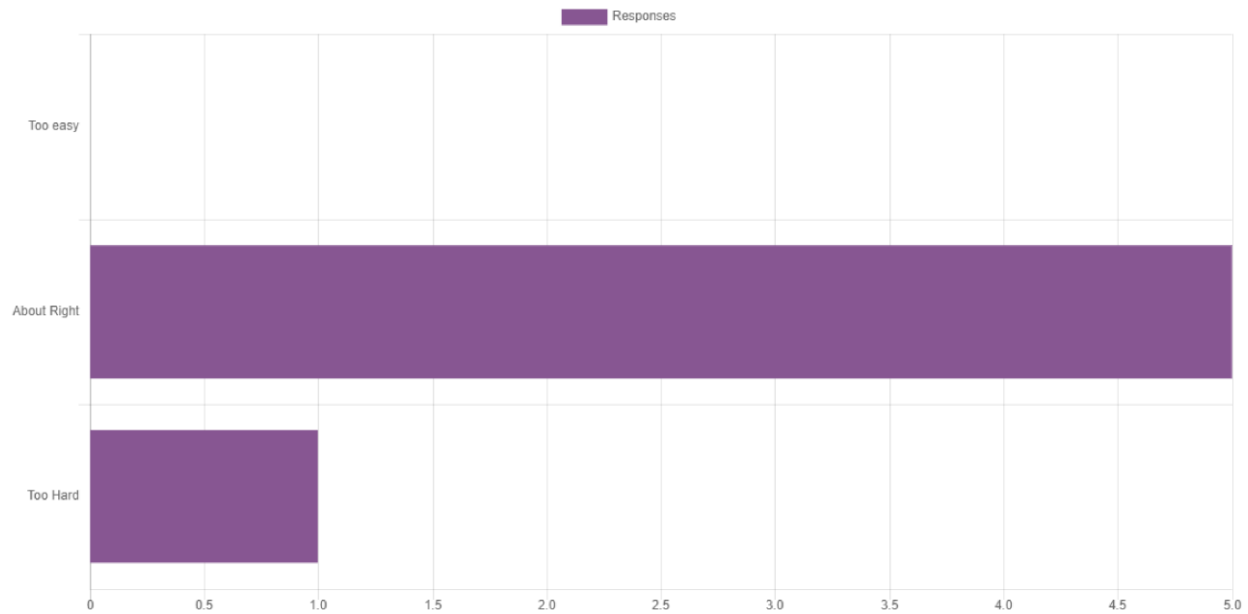
[Show chart data](#)

(Q7) I attempted (...?) of examples sheet questions



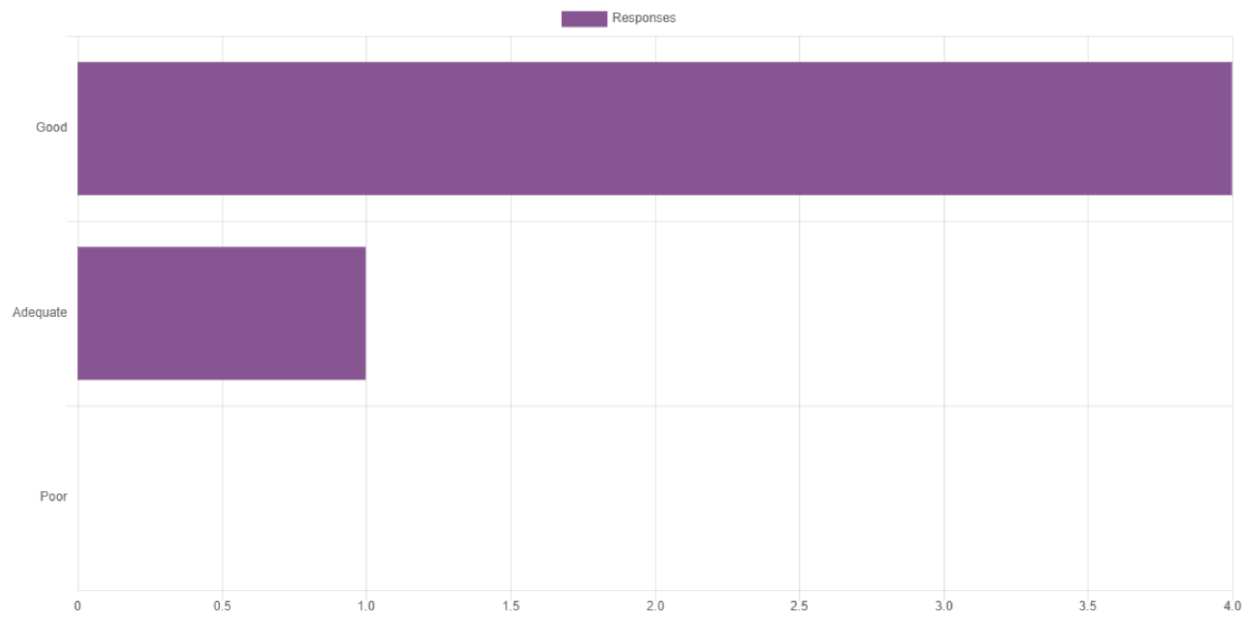
[Show chart data](#)

(Q8) The examples sheet questions were



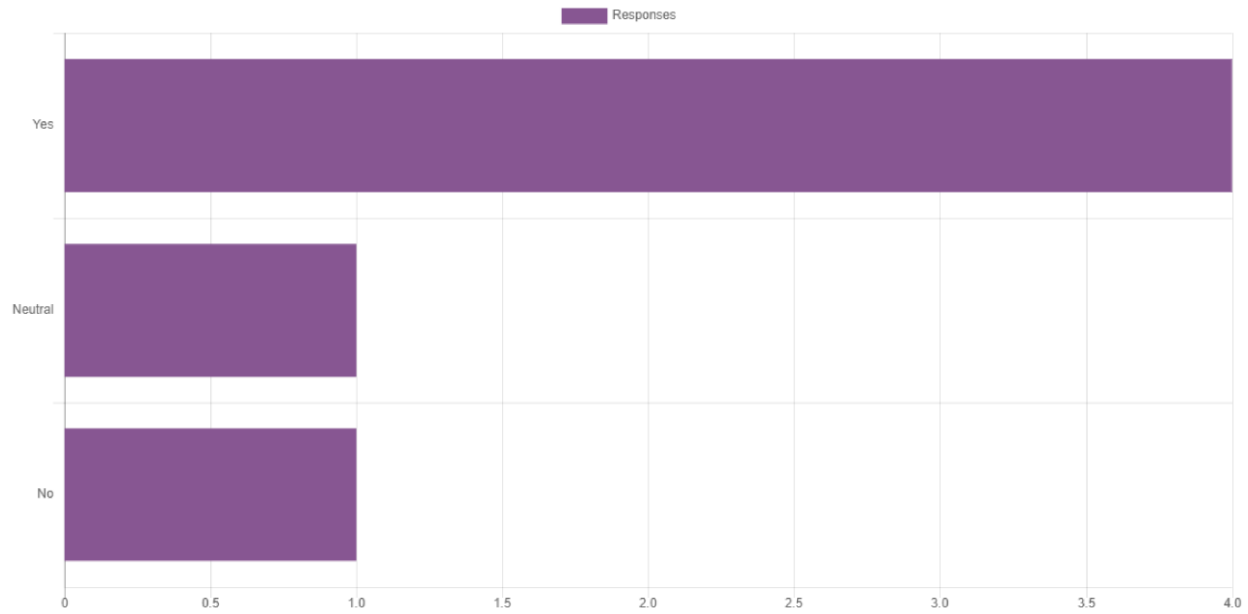
[Show chart data](#)

(Q9) Promptness of feedback on submitted coursework was



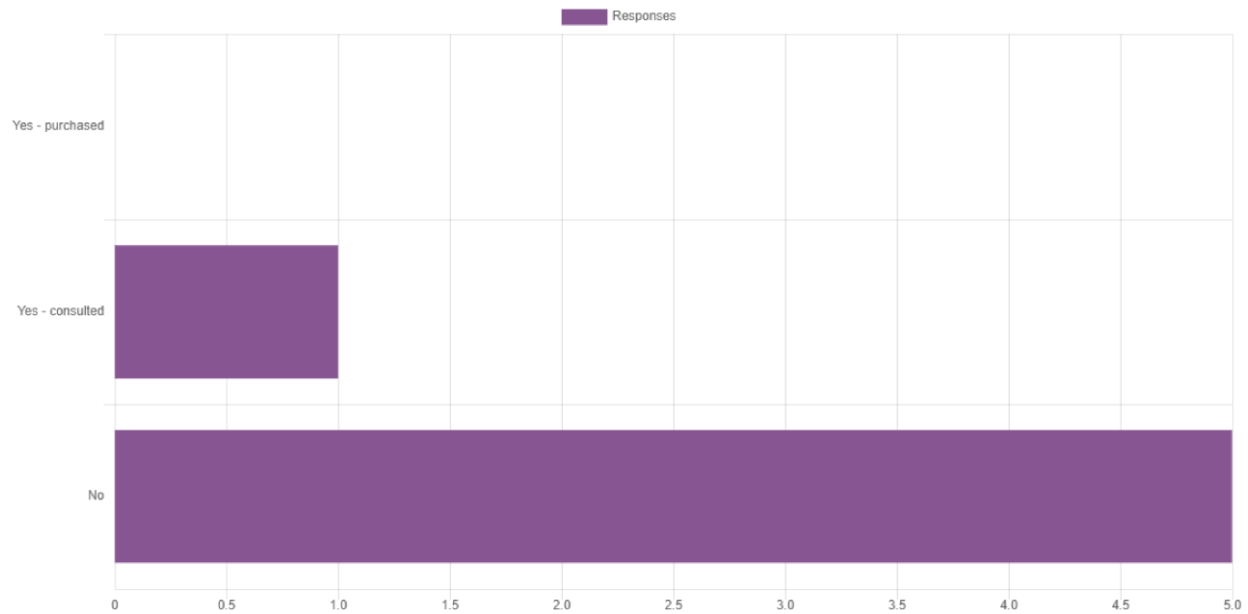
[Show chart data](#)

(Q10) Would you like a course taking this subject further ?



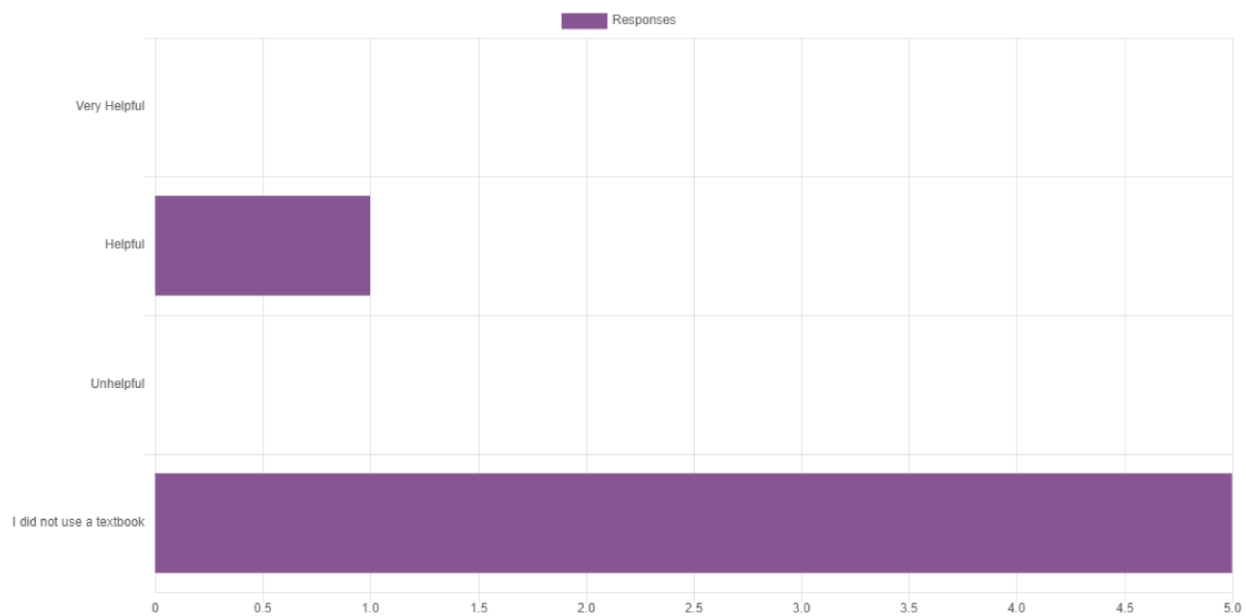
[Show chart data](#)

(Q11) Did you use any of the recommended/suggested textbooks?



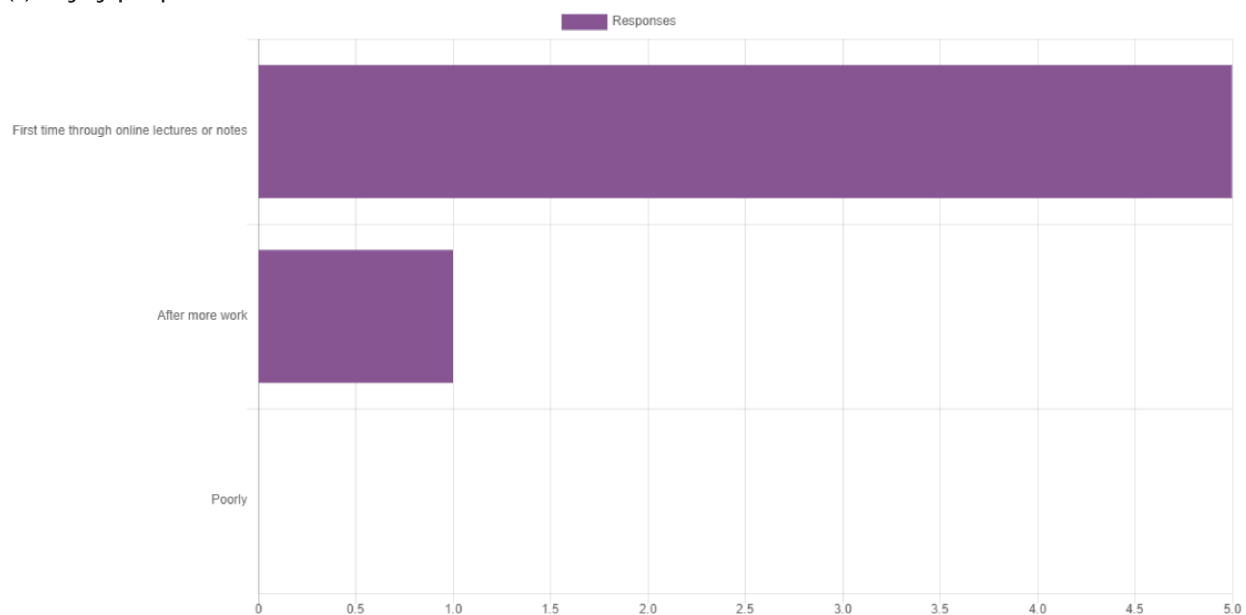
[Show chart data](#)

(Q12) I found the textbook(s) used to be



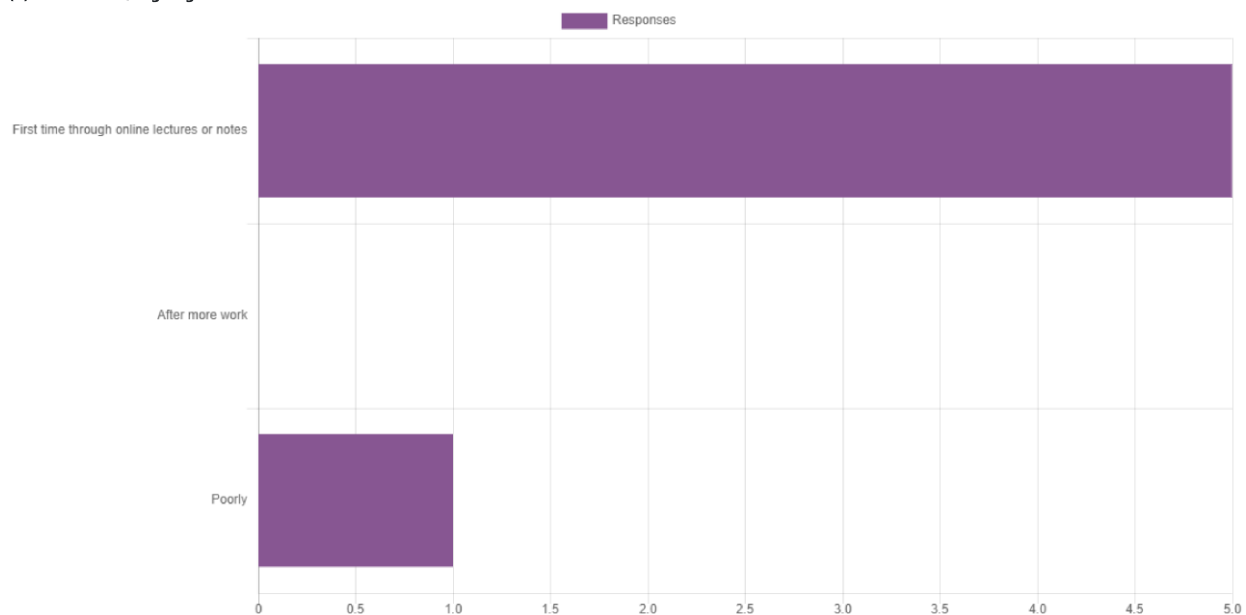
[Show chart data](#)

(A) The gauge principle



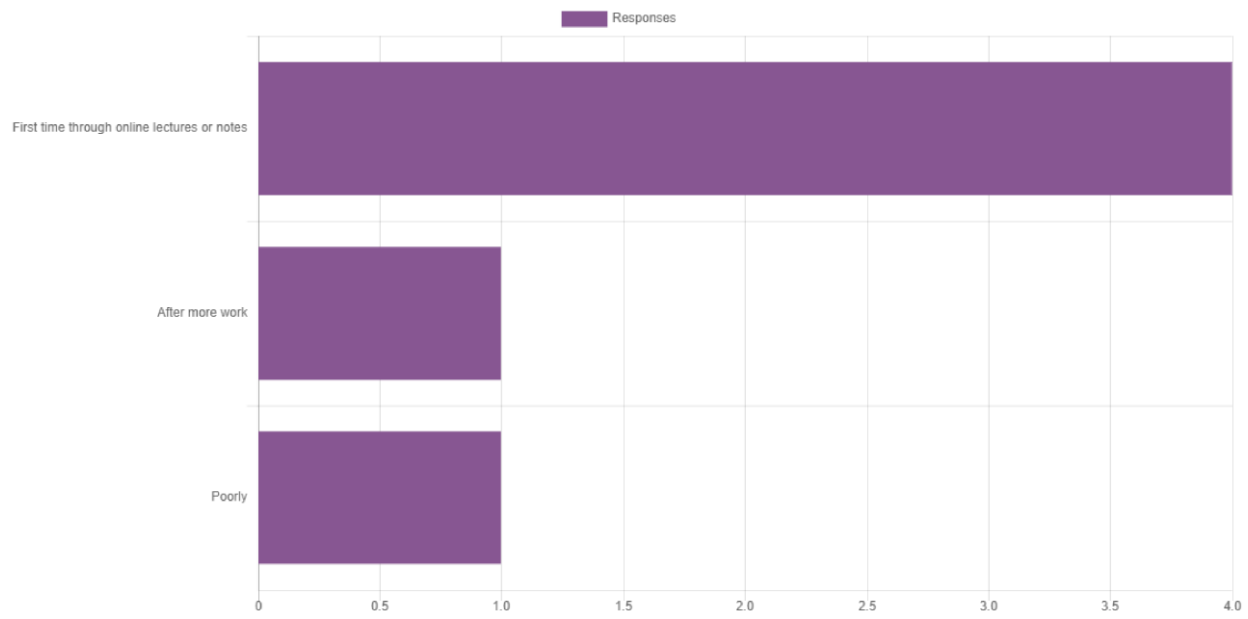
[Show chart data](#)

(B) Hamiltonian/Lagrange formulation



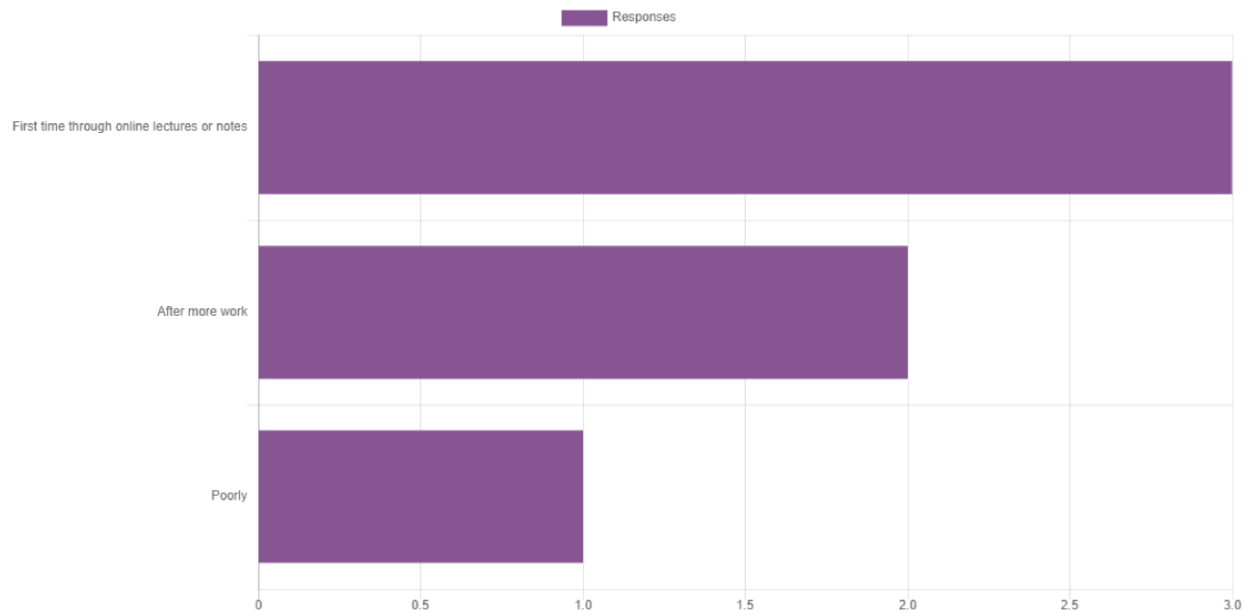
[Show chart data](#)

(C) Quantum field theory



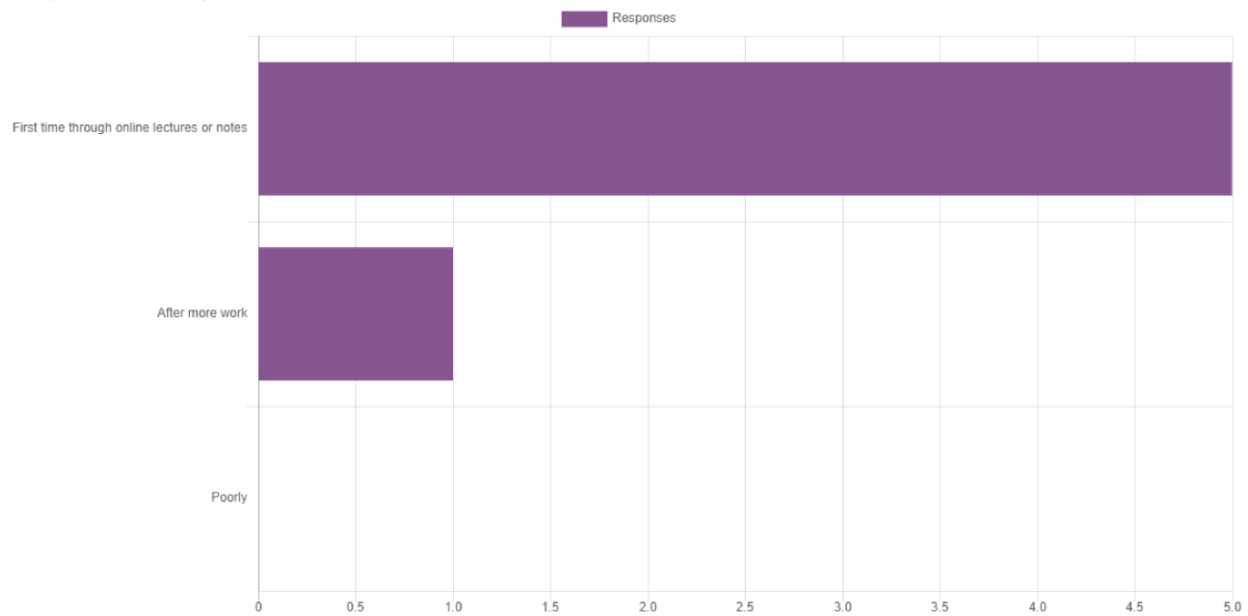
[Show chart data](#)

(D) Interacting fields and QED



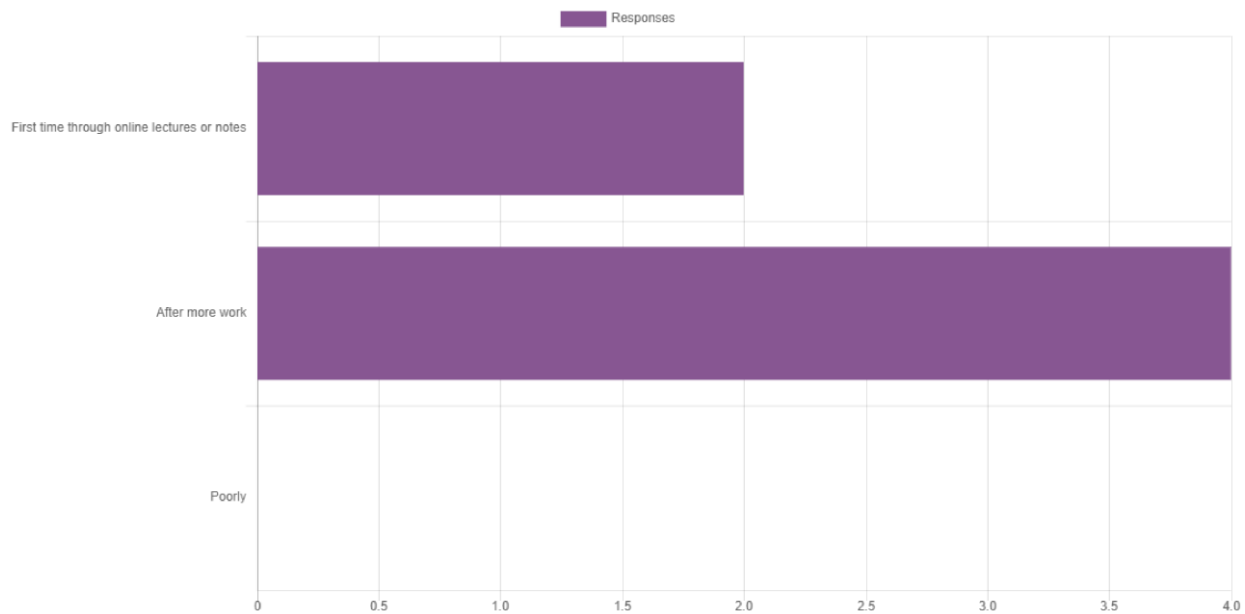
[Show chart data](#)

(E) Feynman rules and diagrams



[Show chart data](#)

(F) Non-abelian gauge theories



[Show chart data](#)

The best features of this module were:

- interesting content
- I appreciate the module being delivered with follow-along notes
- Understanding the cutting-edge developments of PP
- The handouts for this module are excellent. Explanation of concepts was great. Content was delivered with a clear structure and flow, and was done so engagingly. This was a brilliant course.
- Excellent lecture typeset notes, extremely well detailed and very helpful. Good lecture videos for consolidation of knowledge. Useful live sessions and good response to questions asked over email or forum.
- The compelling concepts, how well it led on from the previous module PX408 and how it promotes individual reading/taking PX445.

Any particular aspects/items needing improvement (and suggestions how):

1. The videos were a bit...awkward. There were lots of moments when nothing was said or written!
 2. There were many parts of the videos where results appeared almost "magically", i.e. without any good physical explanation (in particular QCD, Electroweak and Higgs). I also know many people that did not understand QFT properly (I did only because I did a project about it). I think the typed notes were much better. Maybe consider following them a bit more.
 3. Sometimes videos were not posted enough in advance. On Wednesday (9/12), I did not know what it was going on since I hadn't had enough time to review the material properly! We do have final year projects and other modules going on, so please consider posting the video one week in advance.
 4. Live sessions were good, but...
 - A. I would not spend too much time on what we did last week (should be less than 5 minutes in my humble opinion)
 - B. Be prepared for questions that might come up
- A minor thing but occasionally the lecturer will make reference to things being very easy or trivial, which kind of feels like a poor choice of words in this module which I've found to be very conceptually challenging.
 - I think some explanations were a bit brief- it felt like some steps were missed with the physical explanations (rather than the mathematical steps).
 - Perhaps more pointers to further texts in the notes to follow alternative derivations of things as you go along. Maybe lecture videos that follow the structure of the notes a little more closely.
 - It would be nice if the lecturer in the future at some point explicitly showed the use of the fourier decomposition integrals and how the A/C field quanta commutations relate to the equal-time commutation, as it isn't immediately obvious and the calculation is very involved.

Any other comments:

- Really great, thank you Kathrin!
- Thank you! :)
- I would say the module was interesting overall and I do not regret reading it. Nonetheless, there is still room for improvements
- Some of the derivations were a bit repetitive but I think that is more the nature of the course material than the lecturer's fault.
- I do feel like there was less emphasis on worked questions when compared to its predecessor PX408, and that could be a hindrance as PX430 could be considered more mathematically challenging

Jump to...

[Announcements](#) ▶

You are logged in as [Leah Edwards](#) ([Sign out](#))

[Moodle Docs](#) for this page

[About Moodle](#) | [Moodle Help](#) | [Search courses](#) | [MyPortfolio](#) | [Email](#) | [Insite](#) | [Categories](#)

