Managing individual project assessment using a Moodle database

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With help from
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Background – final year projects

Unit features

- 24-30 credits
- Involves all academics
- Multiple assessed components
  - Interim report
  - Final report
  - Project execution
- Double blind marking required

Motivation

Previous solutions

- Paper-based
- Using existing Moodle structures
  - Inflexible
  - Clunky
  - Poor acceptance from academics

Moodle database

- Most flexible Moodle tool

Implementation

Instructions

FYP marking database

This database is for the marking of all EEE final year projects, i.e. BEng and MEng but not IMEE.

It is designed to allow all the marks for each aspect of the assessment to be stored along with feedback and justification. It also allows the ability for the supervisor and assessor to 'blind mark' the final reports, with the further opportunity for a 3rd marker to be assigned.

Instructions:

1. **Find your students** in the 'View list' tab by typing your name into the '*Search*' box at the bottom of the page
   - You can tick the '*Advanced Search*' box for a more precise search.
2. **Click the cog symbol** to add or edit your marks for each student.
   - Tip: right-click on the cog and open in a new tab. You won't then lose your list of students.
   - Note: You can only add/edit marks for students for which you are specified as the Supervisor or Assessor and you will only be able to see your own marks, not those of the other marker.
3. **Check the student name** to ensure you are marking the correct student.
4. **Click the relevant tab** for the element that you are marking.
5. **Calculate the total** by pressing the '*Calculate Total*' button after you have entered the marks for each of the elements.
   - Please ensure that you complete the '**Feedback**' and '**Justification**' sections.
   - Tick the '**Marking complete**' box when your marks are complete for this element for this student (Otherwise the Unit Convenor will assume the marks are draft only).
6. **Click the 'Save and View' Button** at the bottom of the page to save your marks.
7. Any problems/questions, email: *p.shields@bath.ac.uk*

Database

View list | View single | Search | Add entry | Export | Templates | Fields | Presets

Student	Course	Supervisor	Assessor	3rd Marker	Supervisor marks			Assessor marks	3rd Marker marks	Unit Convenor	Add/edit marks	Admin
					Interim	Report	Execution	Report	Report			
	MEng	Philip Shields	Pedro Estrela	Philip Shields	Yes	Yes	Yes	Yes	Yes	Philip Shields		
	MEng	Peter Wilson	Christopher Clarke	Robert Watson	Yes	Yes	Yes	Yes	Yes	Philip Shields		
	MEng	Simon Le Blond	Nicholas Mitchell		Yes	Yes	Yes	Yes		Philip Shields		
	MEng	Simon Le Blond	Cathryn Mitchell		Yes	Yes	Yes	Yes		Philip Shields		
	MEng	Peter Wilson	Peter Shepherd		Yes	Yes	Yes	Yes		Philip Shields		
	MEng	Peter Wilson	Christopher Clarke	Peter Wilson	Yes	Yes	Yes	Yes	Yes	Philip Shields		
	MEng	Philip Shields	Manuchehr Soleimani	Philip Shields	Yes	Yes	Yes	Yes	Yes	Philip Shields		
	MEng	Robert Watson	Adrian Evans		Yes	Yes	Yes	Yes		Philip Shields		
	MEng	Peter Shepherd	Ivan Astin		Yes	Yes	Yes	Yes		Philip Shields		
	MEng	Biagio Forte	Cathryn Mitchell	Biagio Forte	Yes	Yes	Yes	Yes	Yes	Philip Shields		

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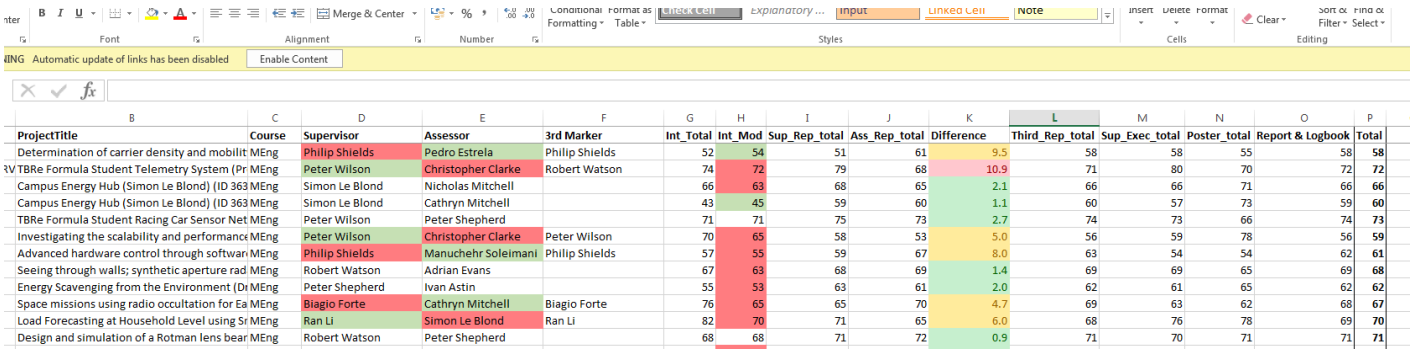
Student	Course	Supervisor	Assessor	3rd Marker	Supervisor marks			Assessor marks	3rd Marker marks	Unit Convenor	Add/edit marks
					Interim Report		Execution Report				
	MEng	Philip Shields	Pedro Estrela	Philip Shields	Yes	Yes	Yes	Yes	Yes	Philip Shields	
	MEng	Peter Wilson	Christopher Clarke	Robert Watson	Yes	Yes	Yes	Yes	Yes	Philip Shields	
	MEng	Simon Le Blond	Nicholas Mitchell		Yes	Yes	Yes	Yes		Philip Shields	

- Each student is a database record
- Each marker is a ‘non-editing teacher’

Steps

1. **Upload details** via Excel spreadsheet
   - student names (from SAMIS), course details, markers
   - Search for student, supervisor etc.
2. Marker clicks '**cog**' on student
3. **Access** depends on marking status via Moodle logon name
   - Unit convenor sees all tabs
   - Supervisor/ Assessor sees only their own tabs
   - 3rd marker sees both Supervisor & Assessor tabs
4. **Total mark** calculated from element marks and weighting
5. **Monitor** marking progress via main listing
6. **Download** all results to Excel
7. Use Excel references to **update master summary file**

Excel referencing



ProjectTitle	Course	Supervisor	Assessor	3rd Marker	Int_Total	Int_Mod	Sup_Rep_total	Ass_Rep_total	Difference	Third_Rep_total	Sup_Exec_total	Poster_total	Report & Logbook	Total
Determination of carrier density and mobilit	MEng	Philip Shields	Pedro Estrela	Philip Shields	52	54	51	61	9.5	58	58	55	58	58
TBRe Formula Student Telemetry System (Pr	MEng	Peter Wilson	Christopher Clarke	Robert Watson	74	72	79	68	10.9	71	80	70	72	72
Campus Energy Hub (Simon Le Blond) (ID 363	MEng	Simon Le Blond	Nicholas Mitchell		66	63	68	65	2.1	66	66	71	66	66
Campus Energy Hub (Simon Le Blond) (ID 363	MEng	Simon Le Blond	Cathryn Mitchell		43	45	59	60	1.1	60	57	73	59	60
TBRe Formula Student Racing Car Sensor Net	MEng	Peter Wilson	Peter Shepherd		71	71	75	73	2.7	74	73	66	74	73
Investigating the scalability and performance	MEng	Peter Wilson	Christopher Clarke	Peter Wilson	70	65	58	53	5.0	56	59	78	56	59
Advanced hardware control through softwar	MEng	Philip Shields	Manuchehr Soleimani	Philip Shields	57	55	59	67	8.0	63	54	54	62	61
Seeing through walls; synthetic aperture rad	MEng	Robert Watson	Adrian Evans		67	63	68	69	1.4	69	69	65	69	68
Energy Scavenging from the Environment (Di	MEng	Peter Shepherd	Ivan Astin		55	53	63	61	2.0	62	61	65	62	62
Space missions using radio occultation for Ea	MEng	Biagio Forte	Cathryn Mitchell	Biagio Forte	76	65	65	70	4.7	69	63	62	68	67
Load Forecasting at Household Level using Sr	MEng	Ran Li	Simon Le Blond	Ran Li	82	70	71	65	6.0	68	76	78	69	70
Design and simulation of a Rotman lens bear	MEng	Robert Watson	Peter Shepherd		68	68	71	72	0.9	71	70	71	71	71

- Master file referencing downloaded file from Moodle
  - Allows master file to be automatically updated as marks come in

Under the hood

- Database configured via templates
- HTML code creates tables & tabs
- Javascript (created by Hitesh Aduja, e-learning team) used for
  - Hiding tabs
  - Calculating totals
- Javascript easily editable –
  - little coding knowledge required
  - Support available from Yvonne/Rachel

Conclusion

- Highly configurable tool
- Requires willingness to tinker
- Database structure easy to reproduce via ‘Presets’

BUT

- Need to keep an eye on Moodle upgrades