



# Track Your Progress – the Exeter Effective Learning Analytics Project

Chris Boulton, Sue Milward





Streattham Campus

Penryn Campus



# Effective Learning Analytics

Success for all of our students so that they can be the best they can be

Using data intelligently with students and staff to enhance teaching excellence

Provide personalised support for all of our students



# Exeter's Unique Approach

- Focus on success
- Student-led
- Evidence and research based
- Diagnostic, not predictive



# Project Themes

Project Board and six Workstreams:

Research

Data Modelling

Design

Technical

Ethics

Interventions



# Exeter Research

- Sonderlund, A. L., Hughes, E. A., & Smith, J. R. (in press) Effectiveness of academic learning analytics interventions: A systematic review. *British Journal of Educational Technology*.
- Exeter Data Mining Project :
  - Kent, C., Boulton, C. A., Williams, H. T. P., Towards Measurement of the Relationship between Student Engagement and Learning Outcomes at a Bricks-and-Mortar University (2017) MMLA-CrossLAK@LAK17: Vancouver, BC, Canada  
<http://dblp.org/db/conf/lak/mmla2017>
  - Boulton, C. A., Kent, C., Williams, H. T. P., Virtual learning environment engagement and learning outcomes at a 'bricks-and-mortar' university (2018) *Computers & Education*, 126, 129-142  
<https://www.sciencedirect.com/science/article/pii/S036013151830174X>



# What have we achieved

- Student consent process
- Mining Exeter's engagement data to predict success
- Code of practice
- Tutor and student dashboards
- Tutor support material



# Student Consent





# Diagnostic Dashboards



Meeting records



Employability activity



Digital Engagement



Grades



Attendance



## PROJECT AIMS

Students learn to manage their learning and personal development

Tutors support them with effective conversations and signposting

## OUTPUTS

Guidance embedded in the dashboard

Face to face and online tutor training

Academic tutor group session

## POSSIBLE FUTURE DEVELOPMENTS

Portfolio for uploading documents

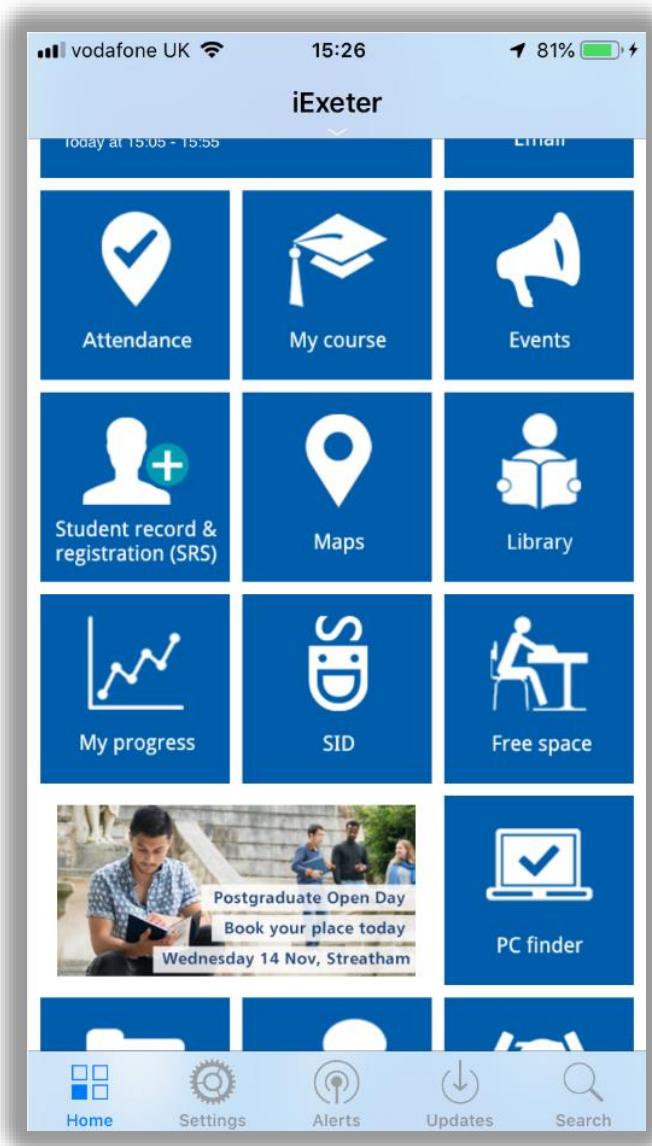
Customisable checklists

Facility to book meetings

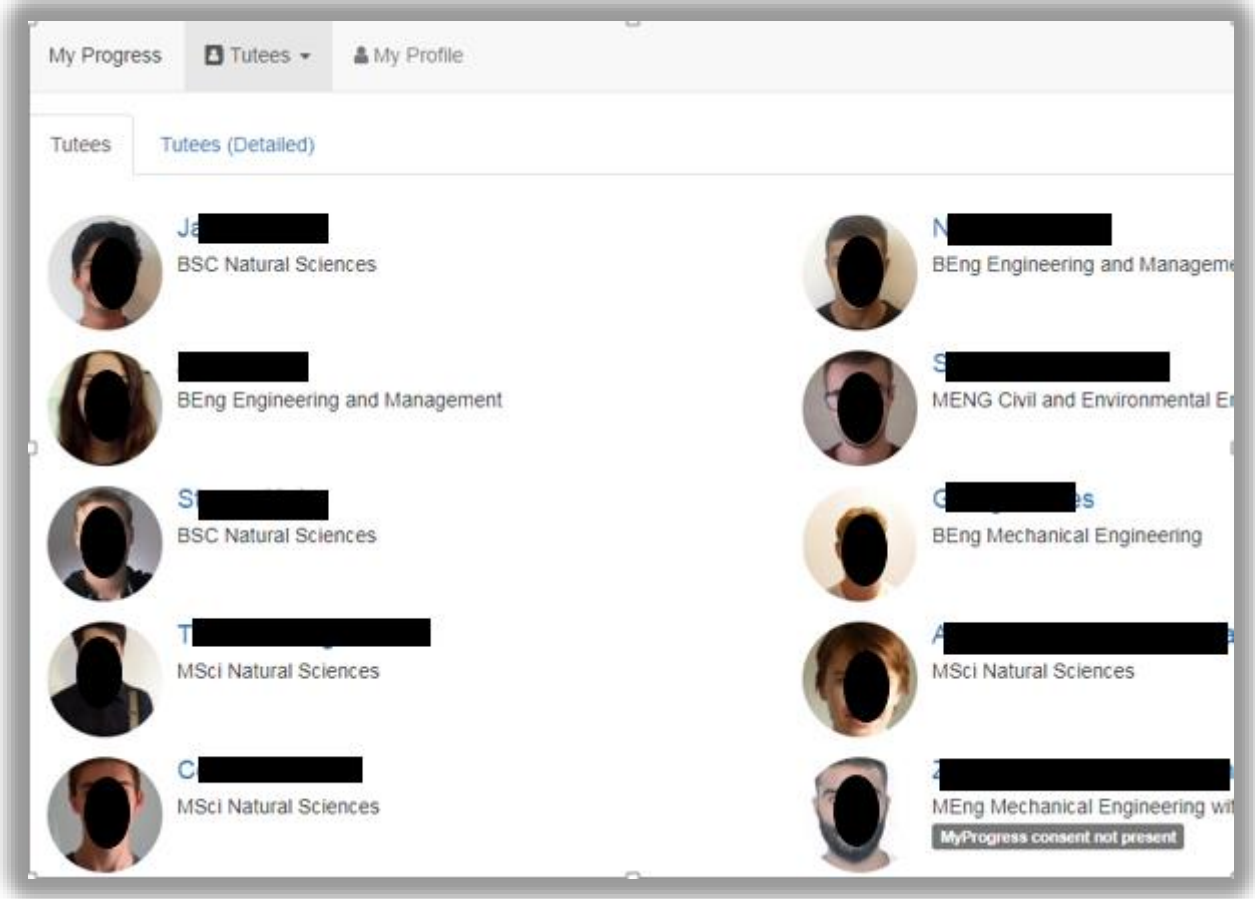
Tutor alerts



# iExeter



# Tutee Summary View



# Tutee Detailed View

My Progress Tutees My Profile Dashboard guide Feedback Milward, Sue

Tutees Tutees (Detailed) [Information about student list and consent](#)


Previous Next

Name	Student Number	Course	Year of Study	Average Grade	Career Planning	MyProgress Consent
Search	Search	Search	Search	Search	Search	Search
[Redacted]	[Redacted]	BSC Natural Sciences	Year 2	n/a	Unknown	Yes
[Redacted]	[Redacted]	MEng Engineering and Management with Industrial Experience	Year 3	n/a	Unknown	No
[Redacted]	[Redacted]	MENG Civil and Environmental Engineering	Year 2	n/a	Unknown	Yes
[Redacted]	[Redacted]	MSci Natural Sciences	Year 4	n/a	Unknown	Yes
[Redacted]	[Redacted]	BEng Engineering and Management	Year 3	n/a	Unknown	Yes
[Redacted]	[Redacted]	MEng Electronic Engineering with Industrial Experience	Year 3	n/a	Unknown	No
[Redacted]	[Redacted]	MSci Natural Sciences	Year 4	n/a	Unknown	Yes



# Meetings

My Progress Tutes - Student Profile (2015-19) Dashboard guide

 **[REDACTED]**  
BSC Natural Sciences Year 2 - Provisionally Enrolled  
Student Number: [REDACTED]  
ILP No: [REDACTED]

Meetings Engagement Employability Grades Attendance

### Record a new meeting

Meeting Date  
29/05/2018 09:01

Note Author  
Milward, Sue

Meeting Notes

\* Validating meeting notes \*

Submit

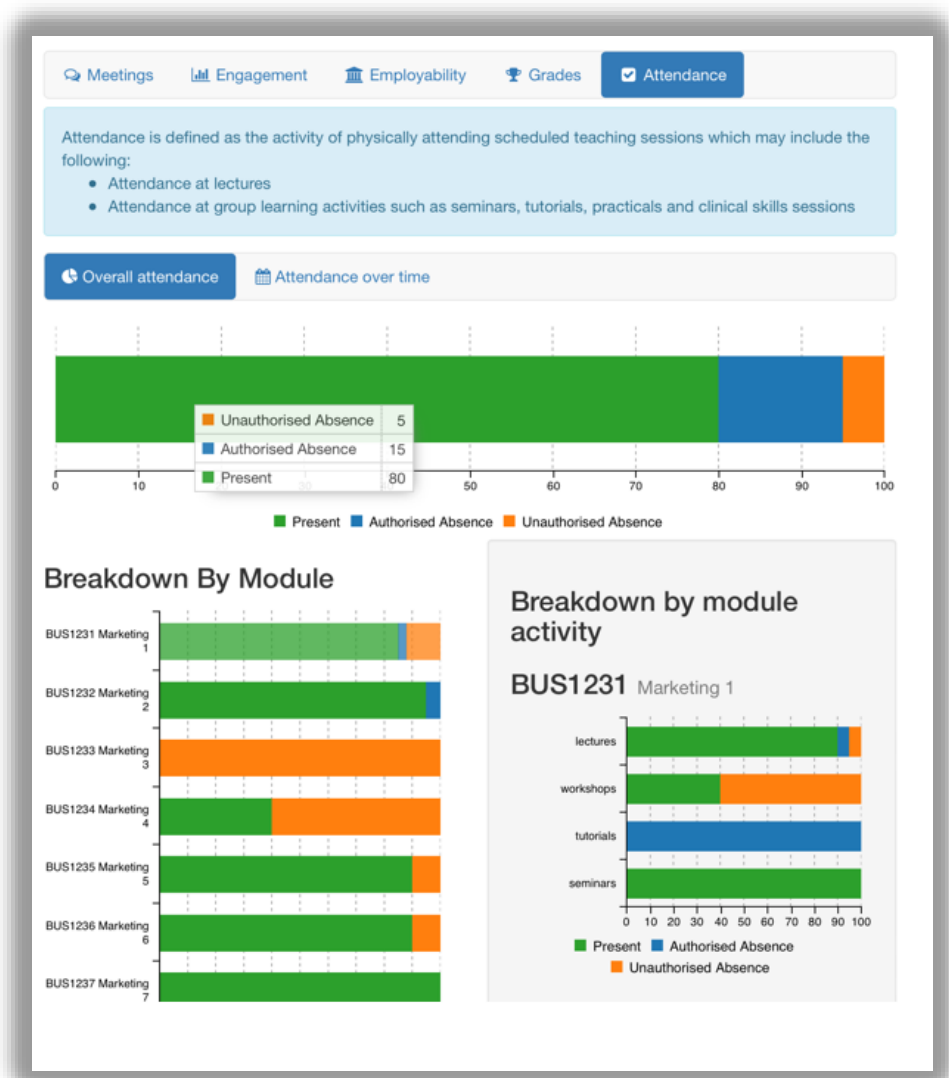
### Previous Meetings

Date	Name	Notes
No data available in table		

UNIVERSITY OF EXETER  
MyProgress - Learn more about this system on the [help/cookies](#) page



# Attendance



# Engagement



**BLOGGS, Joe**

BSc Marketing Year 3

Student Number: 645098990

Date Of Birth: dd/mm/yyyy

Academic Year: 2017/18

Meetings

Engagement

Employability

Grades

Attendance



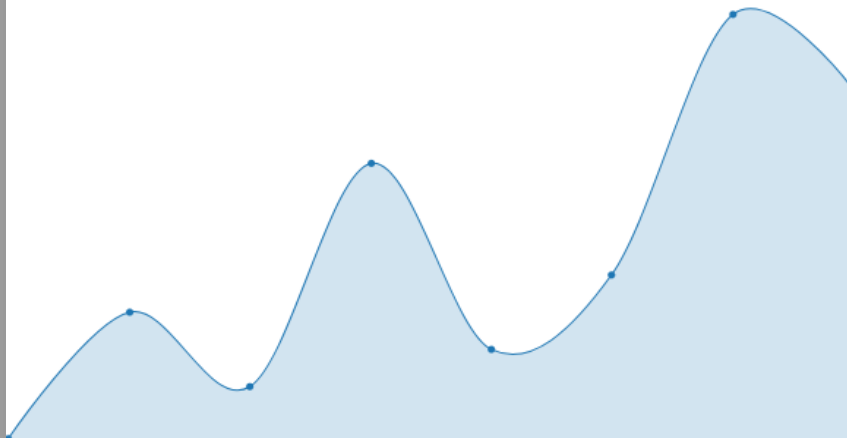
1st Jan 2018

until



19th Feb 2018

View



Your engagement profile is calculated via the way you interact with the University's digital resources.

To find out more about how your profile is calculated, click or hover over one of the engagement points

**For the week starting January 22, 2018 you:**

- Spent an average of 27.1 minutes per day using **ELE**
- Made an average of 79 menu choices per day on **iExeter**
- Attended 2 **career hub** events

**Engagement Score: 400**



# Employability

Meetings Engagement **Employability** Grades Attendance

### Exeter Award 84% Complete [i](#)

Events and Appointments [i](#)

	Attended	Booked	Absent
Events	2	0	0
Appointments	1	0	0

### Work Experience [i](#)

I have no work experience to date

### Career Planning Stage [i](#)

**Decision Making** | I am still deciding what I want to do after university

### Event Listing

Event	Status	Date	Time
Efficient Reading and Preparing for your Literature Review	Attended	12/03/18 2 months ago	16:00 - 17:00
Marketing eXfactor	Attended	09/01/18 4 months ago	10:00 - 12:00
To PhD or not to PhD?	Attended	03/02/18 3 months ago	14:00 - 16:00





# Grades



# Futures

- Planning for a sustainable model for Learning Analytics at Exeter:
  - Modelling further data sources
  - Manual adjustment of models by discipline experts
  - Develop predictive algorithms
  - Further academic research and review
  - Review of technology



# Thank you

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