Transforming Assessment
Webinar Series

9 December 2015: 07:00AM GMT

Providing meaningful learning analytics data to teachers: a tool to complete the loop

Professor Gregor Kennedy, Dr Linda Corrin and
Ms Paula De Barba (University of Melbourne, Australia)

A recall ascilite2015 webinar session

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e-Assessment SIG
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SHAPING THE FUTURE OF TERTIARY EDUCATION

Providing meaningful learning analytics data to teachers: a tool to complete the loop

Gregor Kennedy, Linda Corrin

& Paula de Barba

THE UNIVERSITY OF MELBOURNE   MACQUARIE UNIVERSITY   University of South Australia

Project Details

Project leader: Professor Gregor Kennedy, *University of Melbourne*

Project team: Dr Linda Corrin, Professor David Williams, Professor Raoul Mulder
University of Melbourne

Professor Lori Lockyer, Dr Susie Khamis
Macquarie University

Professor Shane Dawson, Mr Scott Copeland
University of South Australia

Project officer: Ms Paula de Barba, *University of Melbourne*

Programmer: Ms Aneesha Bakharia, *University of South Australia*

Reference group: Professor Barney Dalgarno, *Charles Sturt University*
Professor Sue Bennett, *University of Wollongong*
Dr David Jones, *University of Southern Queensland*
Professor Diana Laurillard, *University of London*
Professor Maarten de Laat, *Open University Netherlands*

Funding body: Office for Learning and Teaching

Background

The field of learning analytics offers the potential to enhance teaching and learning practices in higher education by providing an empirical basis for educational design and delivery

01010101010101010101010101010
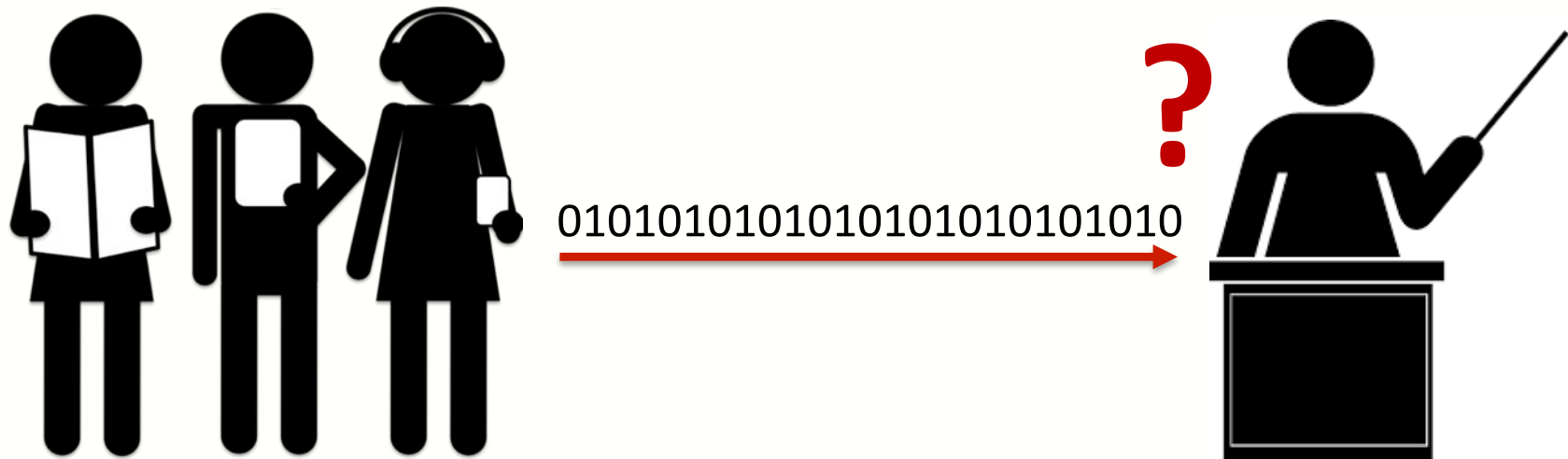
Background

The field of learning analytics offers the potential to enhance teaching and learning practices in higher education by providing an empirical basis for educational design and delivery
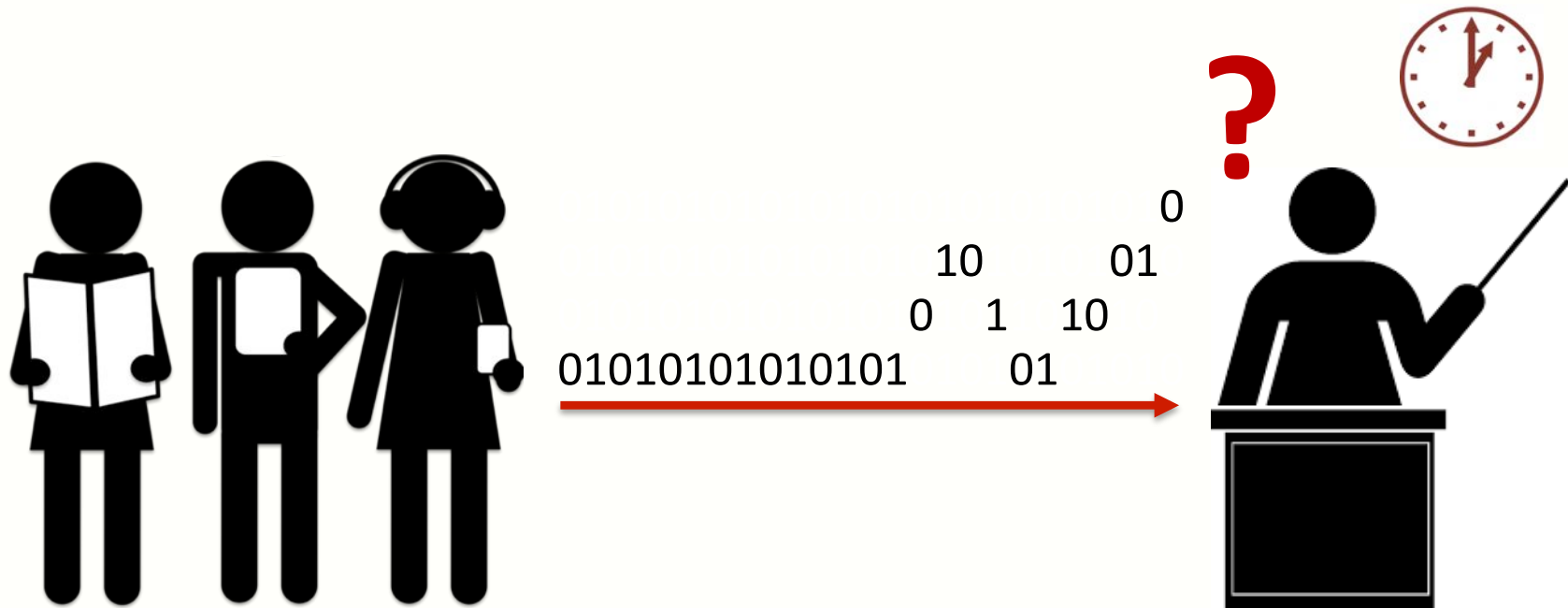
Aims of the project

This project will investigate ways to deliver useful learning analytics to academic teachers in higher education.

It aims to:

1
Better understand how analytics can be interpreted, applied and actioned by teaching academic staff

2
"Complete the loop" by providing easily accessible data to teachers about their students' interactions in online learning environments

Phases of the Project

1	Explore teaching problems and analytics solutions

Interviews with 12 teaching academics
(4 from each participating institution)

- Pedagogical intent
- Educational technologies
- Educational problems/situations
- Needs and wants

Kennedy, G., et al., (2014). Completing the loop: returning learning analytics to teachers. *Proceedings ascilite Dunedin 2014* (pp. 436-440).

Findings from Phase 1

1	Explore teaching problems and analytics solutions

Participants had fairly basic requests concerning their needs and ideas of how leaning analytics can be used and retrieved from their courses.

Findings from Phase 1

1	Explore teaching problems and analytics solutions

Such requests mainly focused on analytics around student engagement, specifically frequency of access to resources.

Findings from Phase 1

1	Explore teaching problems and analytics solutions

Due to the blended nature of their teaching, few participants made use of interactive online activities such as quizzes and discussions, limiting the availability of data.

Findings from Phase 1

1 Explore teaching problems and analytics solutions

Some participants wanted to relate data from the learning management system with data from other sources. For example, student evaluation surveys.

Findings from Phase 1

1	Explore teaching problems and analytics solutions

Participants expressed concern about their own ability to interpret the data, and identified a need for training in this area.

Findings from Phase 1

1	Explore teaching problems and analytics solutions

They were also concerned about the time it would take to collect, analyse and develop actions based on the learning analytics data.

Challenges for Phase 2

1	Explore teaching problems and analytics solutions

2	Development of a web-based analytics tool

Pedagogical intent

↑

CHALLENGE ⟩ Sophisticated analytics

↓

Basic analytics

Support for analysis and interpretation
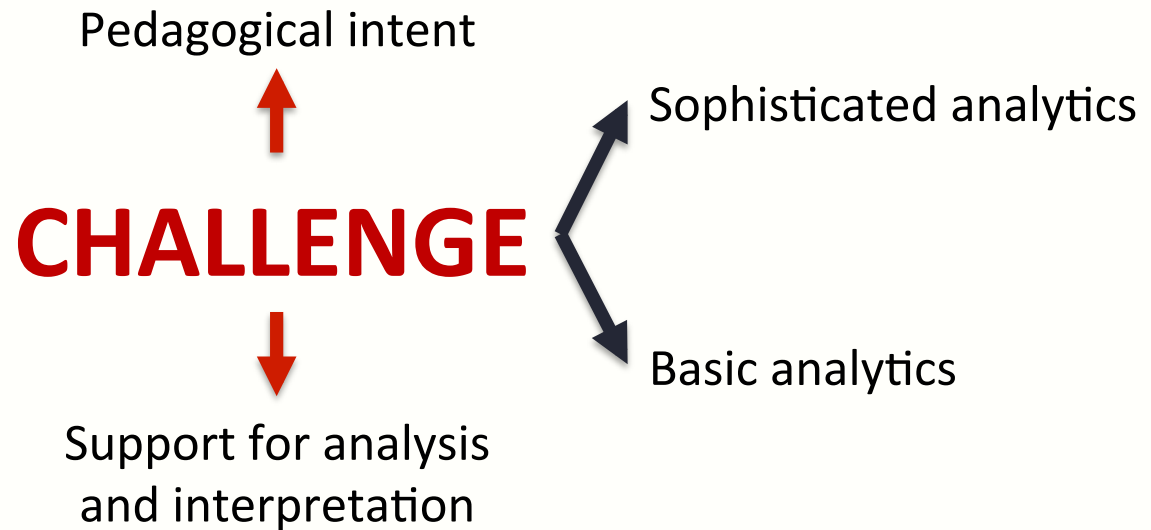
Phases of the Project

1 Explore teaching problems and analytics solutions

2 Development of a web-based analytics tool

Web-based tool
Extract data from Moodle/Blackboard
Pedagogical intent, technological tools & data

Loop - Learning Design Analytics

📊 Course Dashboard

📁 Course Access

👤 Students

🏠 My Courses > Course: TEST - Dummy Course > Dashboard

Course Weekly Dashboard: Week 1 (July 27, 2015 - Aug. 2, 2015)

Week 1 ▾ **Change Week**

🗒 Pageviews
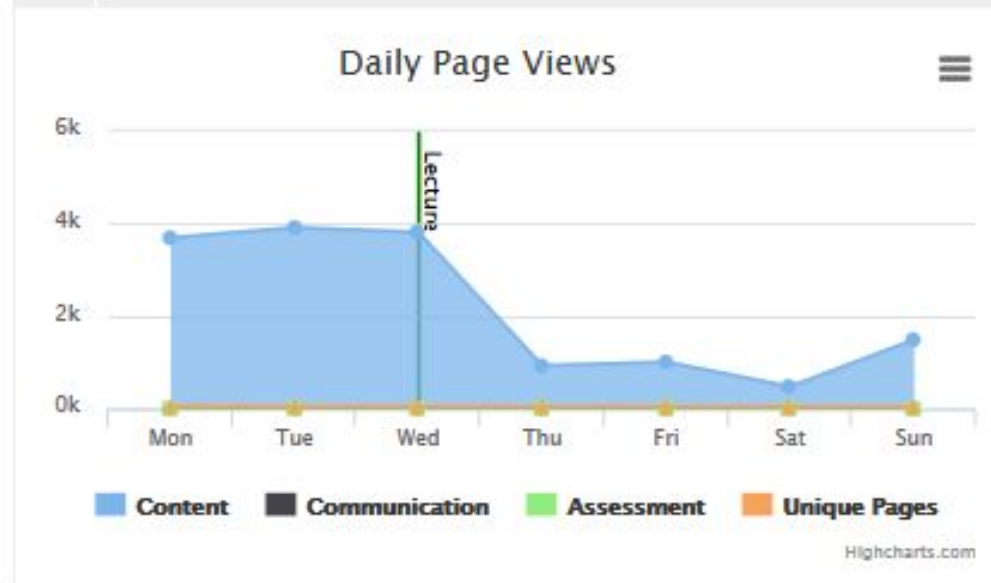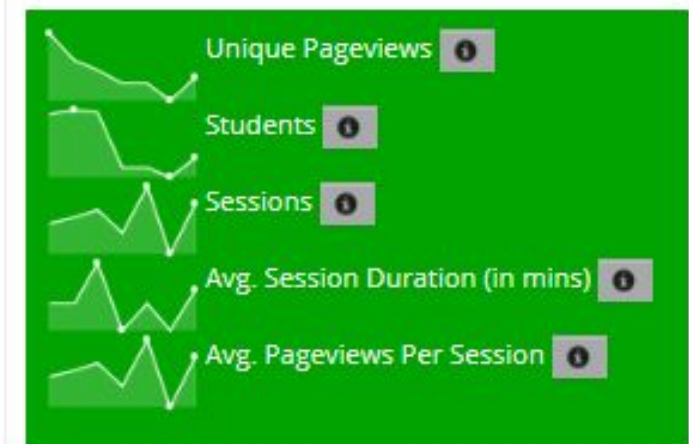
Daily Page Views ☰

■ **Content** ■ **Communication** ■ **Assessment** ■ **Unique Pages**

Highcharts.com

☰ Week Metrics

Unique Pageviews ℹ

Students ℹ

Sessions ℹ

Avg. Session Duration (in mins) ℹ

Avg. Pageviews Per Session ℹ

☰ Student Pageviews Histogram ℹ
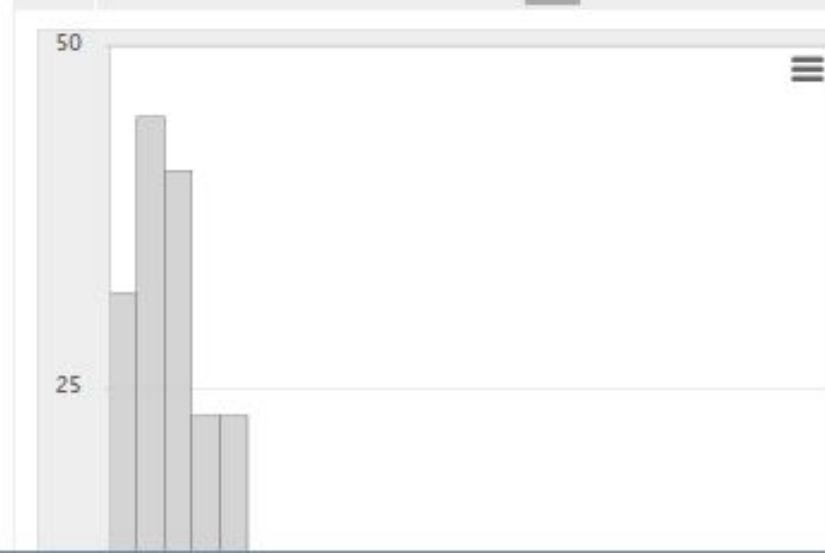
☰ Top Accessed Content

Page	Type	Student Visits	Pageviews
Lecture 2	resource/x-bb-document	173	1182
Introduction lecture	resource/x-bb-file	172	1124
--TOP--	resource/x-bb-folder	171	1080
Lecture 4	resource/x-bb-document	170	1078

📊 Course Dashboard

📁 Course Access

👤 Course Members

🏠 My Courses > Overall Course Dashboard - TEST - Dummy Course

View All ▾   **Change Week**

📋 Pageviews

Zoom 1m **3m** 6m YTD 1y All   From Mar 2, 2015 To May 31, 2015 ≡

25   25 Pageviews

Quiz: Start Date

Quiz: End Date

Assignment 1: Start Date

Guest Lecture

Assignment 1: End Date

0

2. Mar   9. Mar   16. Mar   23. Mar   30. Mar   6. Apr   13. Apr   20. Apr   27. Apr   4. May   11. May   18. May   25. May

23. Feb   9. Mar   23. Mar   6. Apr   20. Apr   4. May   18. May

— **Pageviews**   ■ **Single Course Events**   ■ **Submission Events**
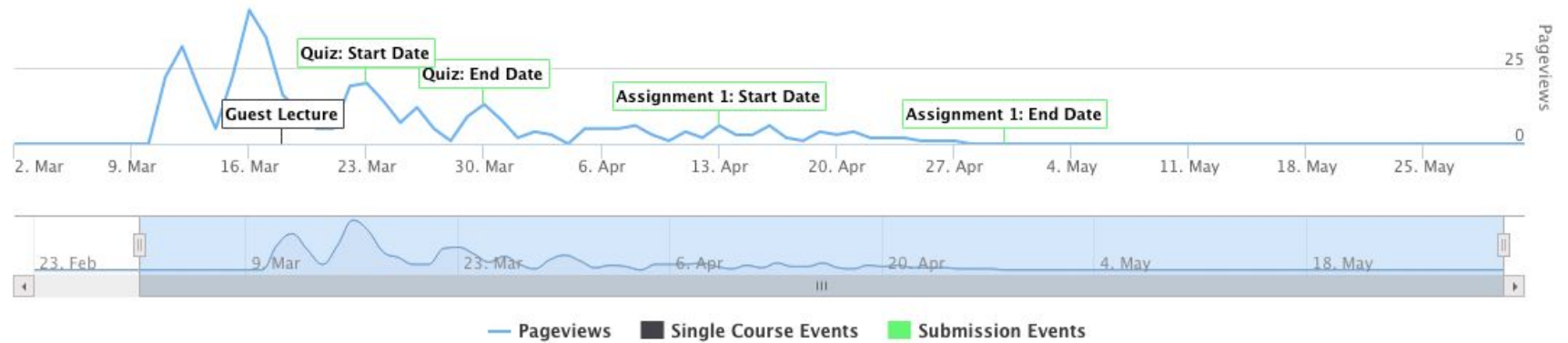
Highcharts.com

Update Based On Date Selection

☰ User Pageviews Histogram

25
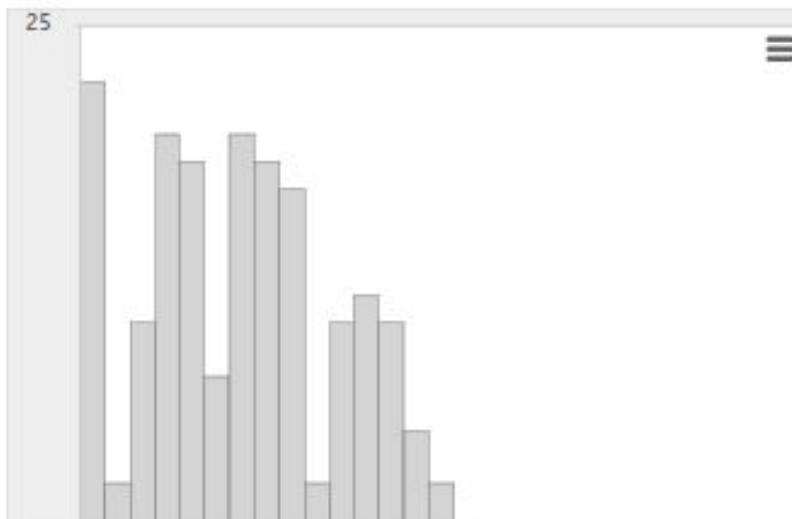
☰ Top Accessed Content

Page	Type	Student Visits	Pageviews
Lecture Capture	resource/x-osc-basiclti	186	10152
--TOP--	resource/x-bb-folder	225	9304
--TOP--	resource/x-bb-folder	235	9248
Lecture 14	resource/x-bb-document	230	9232

Top Site Visitors

Firstname	Surname	Role	Pageviews
Student	Student	STUDENT	2850
Student	Student	STUDENT	2804
Student	Student	STUDENT	2537
Student	Student	STUDENT	2399
Student	Student	STUDENT	2169
Student	Student	STUDENT	2092
Student	Student	STUDENT	2074
Student	Student	STUDENT	1913
Student	Student	STUDENT	1876
Student	Student	STUDENT	1865

Communication Tool Access

Title	Type	Unique Students	Pageviews	No Posts
Drugs news	resource/x-bb-discussionboard	25	130	6
Tutorial discussions	resource/x-bb-discussionboard	11	46	2
Lecture discussions	resource/x-bb-discussionboard	11	36	1
Peer marking	resource/x-bb-discussionboard	4	14	1

Assessment Access

Title	Type	Unique Students	Attempts	Average Student Score
Drugs that Shape assignment	resource/x-turnitin-assignment	0	0	0
Peer assessment marks submission	resource/x-turnitin-assignment	0	0	0
Online test	assessment/x	207	410	0

📊 Course Dashboard

📁 Course Access

📄 Content

📄 Communication

📄 Assessment

👤 Students

⌂ My Courses > Course: TEST - Dummy Course > Content

⊞ Course Content

Events　　Unique Students　　Pageviews

Expand all | Collapse all

Name	Type	View	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	We 11
Main Course Homepage	Course		0	0	0	0	0	0	0	0	0	0	0
📄 Announcements	resource/x-bb-announcement	View	11	2	13	12	8	0	1	8	3	3	7
📄 View Gradebook	course/x-bb-gradebook	View	8	8	13	35	33	20	29	88	44	18	62
▶ 📁 How much do we drink survey	course/x-bb-coursetoc	View	0	0	0	0	0	0	0	0	0	0	0
▶ 📁 Staff Information	resource/x-bb-stafffolder	View	0	0	0	0	0	0	0	0	0	0	0
▼ 📁 Lecture Capture	course/x-bb-coursetoc	View	0	0	0	0	0	0	0	0	0	0	0
▶ 📁 --TOP--	resource/x-bb-folder	View	256	218	250	201	126	136	162	241	164	60	14
▼ 📁 Timetable	course/x-bb-coursetoc	View	0	0	0	0	0	0	0	0	0	0	0
▶ 📁 --TOP--	resource/x-bb-folder	View	113	53	59	47	42	32	53	36	38	15	32
▼ 📁 Assessment	course/x-bb-coursetoc	View	0	0	0	0	0	0	0	0	0	0	0
▶ 📁 --TOP--	resource/x-bb-folder	View	143	104	163	505	261	258	236	780	945	103	54
▶ 📁 Subject Information	course/x-bb-coursetoc	View	0	0	0	0	0	0	0	0	0	0	0
▶ 📁 Court visit	course/x-	View	0	0	0	0	0	0	0	0	0	0	0

📊 Course Dashboard

📁 Course Access

📄 Content

📄 Communication

📄 Assessment

👤 Students

⌂ My Courses > Course: TEST - Dummy Course > Content: > --TOP-- (resource/x-bb-folder)

Title: --TOP--
Type: resource/x-bb-folder

🗏 Pageviews

Zoom 1m **3m** 6m YTD 1y All   From Aug 16, 2015   To Nov 16, 2015 ☰

Quiz: Start Date

Quiz: End Date

100

0

Pageviews

17. Aug   24. Aug   31. Aug   7. Sep   14. Sep   21. Sep   28. Sep   5. Oct   12. Oct   19. Oct   26. Oct   2. Nov

Sep '14   Sep '15   Nov '15

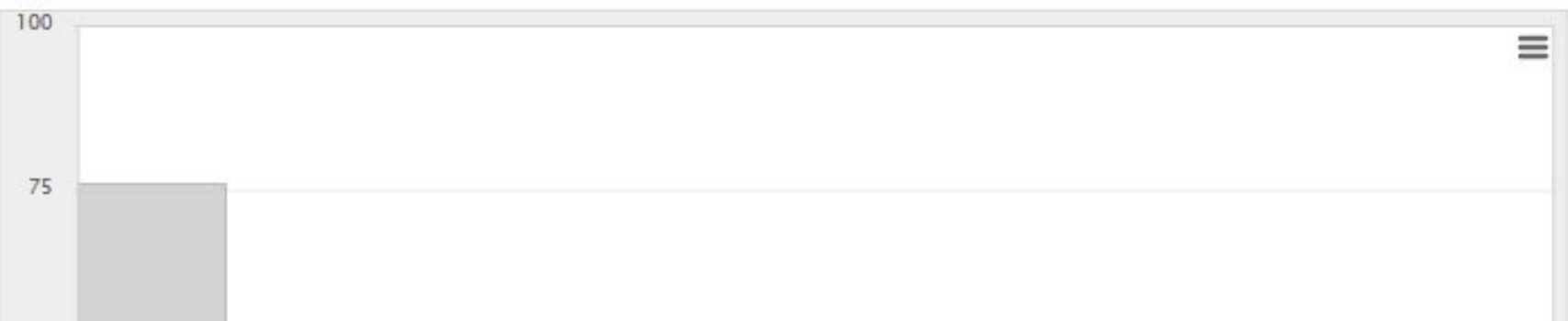— Pageviews   ▮ Single Course Events   ▮ Submission Events

Highcharts.com

Update Based On Date Selection

🗏 Student Pageviews Histogram ⓘ

100

75

	50

Bars — Curve Filled Curve

Students with no views

10 ▾ records per page		Search:	
Firstname	**Surname**	**Email**	**Role**
Student	Student	email@test.com	STUDENT
Student	Student	email@test.com	STUDENT
Student	Student	email@test.com	STUDENT
Student	Student	email@test.com	STUDENT
Student	Student	email@test.com	STUDENT
Student	Student	email@test.com	STUDENT
Student	Student	email@test.com	STUDENT
Student	Student	email@test.com	STUDENT
Student	Student	email@test.com	STUDENT

Loop - Learning Design Analytics

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Course Dashboard

Course Access

Content

Communication

Assessment

Students

🏠 My Courses > Course: ACCT1006 - Financial Accounting > Communication

▦ Course Communication

Events   Unique Students   Posts

Pageviews

Name	Type	View	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11
All Forums ⓘ	Forum		0	0	0	0	0	0	0	0	0	0	0
Financial Accounting 1 - Course Content Forum	forum	View	0	0	0	99	261	201	423	983	43	29	68
Financial Accounting 1 - Off-Campus Student Forum	forum	View	0	0	0	63	144	45	89	395	16	54	59
Financial Accounting 1 - Administrative Queries Forum	forum	View	0	0	0	32	69	70	64	111	5	10	28
News forum	forum	View	0	0	0	0	2	0	0	0	1	0	0
Total			0	0	0	194	476	316	576	1489	65	93	155

Loop - Learning Design Analytics

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📁 Course Access

📄 Content

📄 Communication

📄 Assessment

⚏ Course Communication

Events   Unique Students   Posts

Pageviews

Name	Type	View	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Wee 11
All Forums ⓘ	Forum		0	0	0	0	0	0	0	0	0	0	0
Accounting 1 Course Content Forum	forum	View	0	0	0	99	261	201	423	983	43	29	68
Financial Accounting 1 - Off-Campus Student Forum	forum	View	0	0	0	63	144	45	89	395	16	54	59
Financial Accounting 1 - Administrative Queries Forum	forum	View	0	0	0	32	69	70	64	111	5	10	28
News forum	forum	View	0	0	0	0	2	0	0	0	1	0	0
Total			0	0	0	194	476	316	576	1489	65	93	155

All Forums refers to views of the page that has links to each discussion forum

Loop - Learning Design Analytics

📊 Course Dashboard

📁 Course Access

📄 Content

📄 Communication

📄 Assessment

👤 Students

🏠 My Courses > Course: ACCT1006 - Financial Accounting > Communication

⚏ Course Communication

Events | Unique Student

Repeating Course Events: Lecture (Tuesday) ▼ [Update]

Note: Blue indicates the forum was viewed before the selected event, and Red after the event. The size of the circle is related to the number of p indicate higher number of posts.

Name	View	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
News forum	forum	View	🔴	🔴🔵	🔴🔵	🔴🔵	🔴	🔴🔵	🔴🔵	🔴🔵	🔴🔵	🔵	
General Course & Assessment	forum	View	🔴	🔴🔵	🔴🔵	🔴🔵	🔴🔵	🔴🔵	🔴🔵	🔴🔵	🔴🔵	🔵	
Student Lounge	forum	View	🔴	🔴🔵	🔴🔵	🔴🔵	🔴🔵	🔴🔵	🔴🔵	🔴🔵	🔴🔵	🔵	

📊 **Course Dashboard**

📁 **Course Access**

📄 **Content**

📄 **Communication**

📄 **Assessment**

👤 **Students**

🏠 My Courses > Course: BIOM200002 - Human Structure and Function > Assessment

⚏ Course Assessment

Events   Unique Students   Grades   Access

Pageviews

Name	Type	View	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Wee 11
Induction Declaration questions	assessment/x-bb-qti-test	View	1454	803	1185	1257	57	172	31	33	88	34	35
Concept Check 1: Membrane Potential	assessment/x-bb-qti-test	View	0	0	0	0	0	0	0	0	0	0	0
Concept Check 1: Membrane Potential(1)	assessment/x-bb-qti-test	View	0	0	0	0	0	0	0	0	0	0	0
Concept Check 2: Nerve/Muscle Integration	assessment/x-bb-qti-test	View	0	0	0	0	0	0	0	0	0	0	0
Concept Check 1: Membrane Potential(1)	assessment/x-bb-qti-test	View	0	0	0	0	0	0	0	0	0	0	0
Concept Check1: Membrane Potential	assessment/x-bb-qti-test	View	0	0	0	0	0	0	0	0	0	0	0

Course Dashboard

Course Access

Students

Course Assessment

Events | Unique Students | Grades | Access

Pageviews

Name	Type	View	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Total	%
Induction Declaration questions	assessment/a-lab-qti-test	View	1042	800	1329	1797	47	127	31	55	88	56	59	42	175	49	9711	0.2898
Concept Check 1: Membrane Potential	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Concept Check 1: Membrane Potential(1)	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Concept Check 2: Nerve/Muscle Integration	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Concept Check 1: Membrane Potential(1)	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Concept Check 1: Membrane Potential	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Concept Check 2: Muscle and Motor Control MCQ	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
MST: Practice questions	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Concept Check 4: Digestion	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Concept Check 4: Reproduction	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Practice MCQs	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
MST2: Practice MCQs	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Concept check 7: Respiration	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	147	419	2485	241	982	267	9999	0.1595
Concept Check 3: ANS and Endocrine System	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Concept Check 4: Digestion	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Concept Check 4: Reproduction	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Concept Check 1: Membrane Potential	assessment/a-lab-qti-test	View	0	3838	1608	729	449	1461	76	119	163	477	1962	297	392	711	11238	0.9677
Concept Check 2: Nerve/Muscle Integration	assessment/a-lab-qti-test	View	0	0	1	2036	639	1864	78	121	178	367	1360	214	366	278	7338	0.6797
Concept Check 3: ANS and Endocrine System	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Concept Check 4: Reproduction	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	1	0	475	806	738	0.0676
Concept Check 4: Digestion	assessment/a-lab-qti-test	View	0	0	0	0	0	0	148	886	788	672	3887	274	543	267	9069	0.2688
Concept Check 5: Kidney	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Week 01 Quiz	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Week 07 Quiz	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Week 04 Quiz	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Week 05 Quiz	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Week 10 Quiz	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Week 07 Quiz	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Week 17 Quiz	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Week 09 Quiz	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Week 06 Quiz	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Week 08 Quiz	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Week 11 Quiz	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Week 03 Quiz	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Concept Check 2: Action Potentials and Neural Integration	assessment/a-lab-qti-test	View	0	0	2799	906	480	1014	72	111	179	362	1330	211	383	268	10806	0.9266
CAL 2: Action Potentials and Neural Integration Review	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Concept Check 5: Cardiovascular System	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	548	746	989	2673	299	1669	264	6216	0.6538
CAL 4: Cardiovascular System Review	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000
Concept Check 8: Kidney	assessment/a-lab-qti-test	View	0	0	0	0	0	0	0	0	0	0	1	281	449	449	1073	0.0928

Loop - Learning Design Analytics

📊 **Course Dashboard**

📁 Course Access

📄 Content

📄 Communication

📄 Assessment

👤 Students

🏠 My Courses > Course: TEST - Dummy Course > Students

▦ Students

Events   **Pageviews**

Firstname	Lastname	Account Type	View	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Student	Student	STUDENT	View	195	113	104	136	126	32	0	294	109	0
Student	Student	STUDENT	View	43	0	112	83	8	61	11	143	124	0
Student	Student	STUDENT	View	37	5	2	26	60	24	3	35	135	0
Student	Student	STUDENT	View	160	41	159	195	169	143	543	147	215	133
Student	Student	STUDENT	View	28	25	65	67	44	65	116	79	101	0
Student	Student	STUDENT	View	82	164	85	129	89	114	105	23	20	56
Student	Student	STUDENT	View	0	18	0	0	3	0	37	0	112	66
Student	Student	STUDENT	View	122	42	48	61	41	30	94	60	105	0
Student	Student	STUDENT	View	0	0	7	7	0	0	5	43	136	0
Student	Student	STUDENT	View	27	48	95	72	75	45	24	49	87	0
Student	Student	STUDENT	View	147	46	96	100	91	94	12	11	98	14
Student	Student	STUDENT	View	214	90	156	458	277	172	65	619	127	24
Student	Student	STUDENT	View	24	48	87	146	126	34	0	1	30	0
Student	Student	STUDENT	View	1	25	42	66	51	25	38	71	40	0

Pageviews

Zoom 1m **3m** 6m YTD 1y All   From | Aug 16, 2015 | To | Nov 16, 2015 | ≡

Quiz: Start Date

Quiz: End Date

200

Pageviews

0

17. Aug   24. Aug   31. Aug   7. Sep   14. Sep   21. Sep   28. Sep   5. Oct   12. Oct   19. Oct   26. Oct   2. Nov

Sep '14   Sep '15   Nov '15

— Content   — Communication   — Assessment   ■ Single Course Events   ■ Submission Events
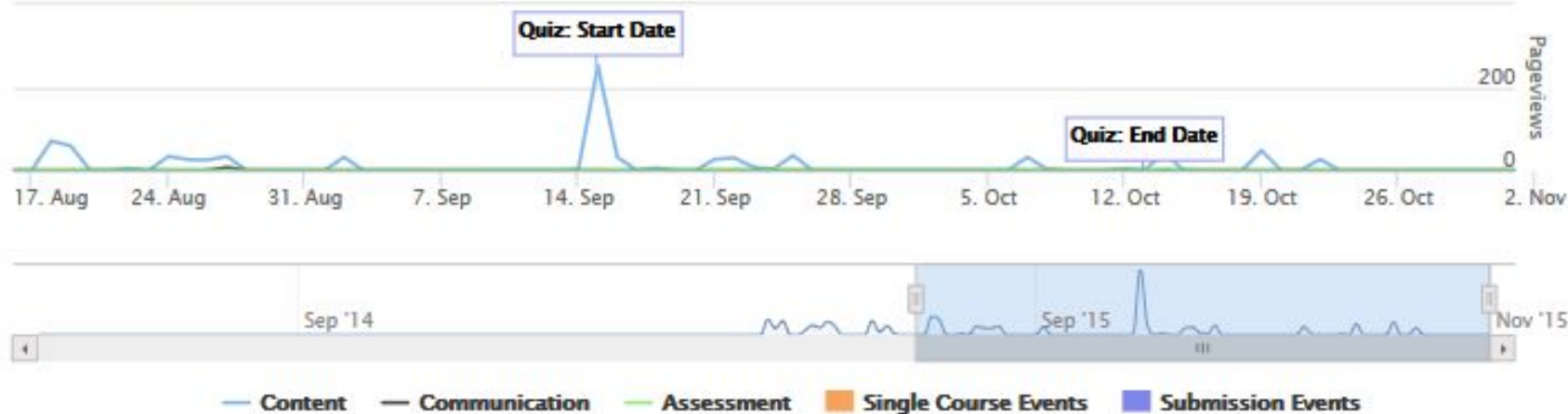
Highcharts.com

Update Based On Date Selection

Course Communication

Title	Type	Pageviews	Posts
Lecture discussions	resource/x-bb-discussionboard	4	0
Tutorial discussions	resource/x-bb-discussionboard	4	0
Drugs news	resource/x-bb-discussionboard	12	0

Course Assessment

Title	Type	Pageviews	Attempts	Average Student Score
Online test 1 2015	assessment/x-bb-qti-test	2	1	90.00
Online test 2	assessment/x-bb-qti-test	2	1	120.00

What's next?

1   Explore teaching problems and analytics solutions

2   Development of a web-based analytics tool

Pedagogical Helper

Input of learning outcomes

Connection with activities/assessments

Connection with technologies used

Available for consultation within the Loop tool/print

Pedagogical Helper Tool

Learning Outcomes → Learning Activities & Assessment → Tools

| Print | Save PDF | Edit |

What's next?

1	Explore teaching problems and analytics solutions

2	Development of a web-based analytics tool

3	Tool trial and dissemination

Analysis of tool pilot data
Further development of pedagogical support tool
Review of tool
Dissemination

Outcomes of the Project

1	Explore teaching problems and analytics solutions

2	Development of a web-based analytics tool

3	Tool trial and dissemination

Web-based analytics tool

Technical framework

Workshop series

Handbook

Academic papers
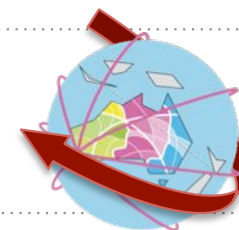
Final report

Website

THANK YOU

www.cshe.unimelb.edu.au/research/teaching/completingtheloop/

Transforming Assessment
Webinar Series

This was a recall ascilite2015 webinar session

Session feedback:

With thanks from your hosts

Professor Geoff Crisp,
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Recording available
http://transformingassessment.com

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