Technology Enhanced Learning

Seven Approaches to Feedback Integrating Technology

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Date: 7th June 2018
This resource highlights seven approaches to feedback on students’ work. It encompasses feedback given from staff to students (in yellow) and where students self-monitor, review and critically evaluate their own and/or their peers’ work (in purple). It sets outs different technologies to support these approaches.

<table>
<thead>
<tr>
<th>Approach</th>
<th>Examples</th>
<th>Technology type</th>
<th>Example of tools</th>
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</table>
| 1 Feedback given to an individual student: on an early draft prior to summative assessment | Oral feedback to the student (synchronous)                                | Online meeting or virtual classroom tools which can facilitate individual feedback sessions where drafts could be discussed, documents shared/edited on screen. | - Blackboard: Collaborate Ultra  
  - Brightspace: YouSeeU (TBC)  
  - Google Hangouts Meet, Skype |
|                                                                         | Written feedback on draft assignment                                       | Annotations within VLE, feedback files and markup documents (via VLE/email), rubrics/marking grids and other markup document tools | - Blackboard: Box view, in-built rubrics  
  - Brightspace: Annotations via Critique^It, text feedback on assignments, add feedback files (markup individual/multiple), in-built rubrics  
  - Feedback files/markup documents e.g. Google Docs (revision history) MS Word (track changes) |
|                                                                         | Audio and video feedback to student (asynchronous)                       | Inbuilt VLE tools to record audio or video feedback in VLE and other audio and video creation tools | - Blackboard: create feedback files with other tools and then upload feedback  
  - Brightspace: inbuilt option to directly record audio or video feedback  
  - Audio feedback files e.g. Audacity (window/mac), Garageband (mac), Kaizena (works with Google Docs); Video feedback: screencasts are audio and video combined; e.g. Camtasia, Screencast-o-matic, Jing, Echo360 Personal Capture  
  [Further Info (TEL Quick Guide)] |

UCD Teaching and Learning: June 2018
2. **Feedback given to an individual student, post assessment:**

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<tr>
<th>Type of Feedback</th>
<th>Methodology</th>
<th>Tools and Options</th>
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| Oral feedback to the student (synchronous) | Online meeting or virtual classroom tools which can facilitate individual feedback sessions where drafts could be discussed, documents shared/edited on screen. | - Blackboard: Collaborate Ultra  
- TEL Quick Guide - Virtual Classroom  
- Brightspace: YouSeeU (TBC)  
- Google Hangouts Meet (available via UCD Google Suite), Skype |
| Written feedback on draft assignment | Annotations within VLE, feedback files and markup documents (via VLE/email), rubrics/marking grids and other markup document tools | - Blackboard: Box view, in-built rubrics  
- Brightspace: Annotations via CritiqueIt, text feedback on assignments, add feedback files (markup individual/multiple), in-built rubrics, intelligent tutoring (agents)  
- Feedback files/markup documents e.g. Google Docs (revision history) MS Word (track changes) |
| Audio and video feedback to student (asynchronous) | Inbuilt VLE tools to record audio or video feedback in VLE | - Blackboard: create feedback files with other tools and then upload  
- Brightspace: inbuilt option to directly record audio or video feedback  
- Audio feedback files e.g. Audacity (window/mac), Garageband (mac), Kaizena (works with Google Docs); Video feedback: screencasts are audio and video combined; e.g. Camtasia, Screencast-o-matic, Jing, Echo360 Personal Capture, TEL Quick Guide - Screencasts |

3. **Feedback given to a group of students (whole class), post assessment:**

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<th>Methodology</th>
<th>Tools and Options</th>
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</table>
| Oral feedback to the class (synchronous) | Online meeting or virtual classroom tools which can facilitate group feedback sessions where drafts could be discussed, documents shared/edited on screen. | - Blackboard: Collaborate Ultra  
- TEL Quick Guide - Virtual Classroom  
- Brightspace: YouSeeU (TBC)  
- Google Hangouts Meet (via UCD Google Suite), Skype |
| Written feedback to whole class, or groups of students within the class. | VLE functionalities (class/group announcements, feedback text files, rubrics/marking grids) and markup document tools | - Blackboard: Announcements, feedback text files, in-built rubrics  
- Brightspace: text feedback on assignments, in-built rubrics  
- Feedback files/markup documents e.g. Google Docs (revision history) MS Word (track changes) |
| Generic feedback to class via video or audio (asynchronous) | VLE tools to record audio or video feedback in VLE, other tools that allow creation of audio and video (screencast) feedback files | - Blackboard: create feedback files with other tools and then upload  
- Brightspace: inbuilt option to record audio or video feedback  
- Audio feedback files e.g. Audacity (window/mac), Garageband (mac), Kaizena (works with Google Docs); TEL Quick Guide - Screencasts |
|   | **Online automated feedback:** | Online graded/ungraded quizzes and self assessments | VLE quiz and survey tools providing standardised feedback for particular responses | Video feedback: screencasts are audio and video combined; e.g. Camtasia, Screencast-o-matic, Jing, Echo360 Personal Capture.  
[TEL Quick Guide - Screencasts](#) |
|---|--------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 4 |                                | Automated feedback based on student performance of a task | Intelligent tutoring automates feedback on tasks, triggered by a specific score on a quiz or associated rubric | -Blackboard: Tests with instant/delayed feedback and grading  
-Brightspace: Quizzes with instant/delayed feedback and grading, self assessments |
| |                                | Feedback on writing development, grammar and spell checker | Plagiarism software | -Brightspace: Intelligent agents/release conditions |
| | **Use of Exemplars:** | Opportunities to peer and/or self-review using exemplars of other students’ work, either in class/online (prior to assessment) | Online Exemplars shared and judged by the students | -Blackboard: SafeAssign  
-Brightspace: (TBC) Urkund, Turnitin, Unicheck  
-Grammarly, Bibme combines both grammar plagiarism checker |
| 5 | **Self-monitoring and discussion:** | Activities to facilitate students to self-monitor and talk about their work | VLE inbuilt tools for quizzes, surveys and discussions | -Blackboard: Self assessment tests and surveys (ungraded), discussion forums  
-Brightspace: Self assessments, surveys, discussions |
| |                                | EPortfolio and personal development planning tools for reflection and discussion | | -Blackboard: Mahara (available via Bb)  
-Brightspace: integrated ePortfolio  
-Tiki Toki Timelines |
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<tr>
<th>Concept/mind mapping online tools either in class/online/out-of-class (prior to assessment)</th>
<th>- Mindmeister, Coggle, Sketchboard, bubbl.us, Vue</th>
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<tbody>
<tr>
<td>Student Response Systems</td>
<td>- Qwizdom, Socrative, Poll Everywhere and Mentimeter (TEL Quick Guide - Student Response Systems)</td>
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<td>Blogs/social networking sites/online communities etc</td>
<td>- Blackboard: blogs, wikis, journals - Brightspace: blogs, ePortfolio - Edmodo, Whatsapp, Slack</td>
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<tr>
<td>Self-evaluation against competencies</td>
<td>- Competency based Self Evaluation Tools (eTaitava, MAPP Assessment)</td>
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<td><strong>Students active engagement with assessment criteria:</strong></td>
<td>Students actively working on criteria in-class/online assessment; peer reviewing against criteria; use of a self-assessment form when submitting work;</td>
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<tr>
<td>Peer assessment tool integrated in VLE</td>
<td>- Blackboard: Self/Peer Assessment Tool, WebPA - Brightspace: Critique^It - Teampmates, Sparkplus</td>
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