Establishing and Maintaining a Dynamic Learning & Teaching Community via an Online Learning Management System Platform

ABSTRACT

Teacher Learning Communities (TLC) have been recognised as key factors in achieving high level engagement and quality outcomes for both teaching staff and for students. Their purpose is to create a shared space in which disciplinary knowledge and issues of practice can be shared and discussed. However, in the context of issues in our institution, such as lack of time, space, funding, and a highly casualised working environment, establishing and maintaining such a community is a challenge.

Creating an online community offered a solution to a number of these issues. The Learning Management System at our institution was chosen to establish a TLC for the following reasons: it was immediately accessible to all staff members and offered a range of tools for cross communication. Further, it provided staff with a selection of specialised pedagogical resources and enabled collection and collation of action research. From a design perspective, the project was informed by current research which has found that users make decisions on the usefulness and user friendliness of online learning systems based on their reactions to the environment. Thus a secondary aim was that the site should act as an exemplar of a highly engaging LMS, one which motivates by being aesthetically pleasing, well organized, and inclusive of multi-modal content.

Regular activities are designed to promote knowledge building, exchange of ideas and to embed a significant level of reflection to encourage teaching staff to adapt and improve their practice. This enables staff to take an active role in collecting and sharing their own observational research thus integrating both praxis and reflection.

Moreover, the use of the LMS platform gives staff the opportunity to explore a range of e-learning and teaching tools and to practice using such tools to create engaging course content. The Teacher Learning Community via the Blackboard platform thus integrates both the technological and pedagogical aspects of professional development.

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Introduction

Over the past twenty years Teacher Learning Communities (TLC) have been recognised as key factors in achieving high level engagement and quality outcomes for both staff and students.

Their purpose is to create a space in which disciplinary knowledge and issues of practice can be shared and discussed. Thus an overarching pedagogical framework can be maintained and professional development embedded.

Within such communities, collaboration provides a suitable educational context for critical thinking processes which then enables deep learning to take place. As noted by Kanuka and Garrison (2004), this form of constructivism in which shared knowledge and meaningful interactions occur, is an essential element of higher order learning. Participants are able to observe differing perspectives and reflect on their own views, creating the opportunity for the building of new meanings. A key component, reflection, is important in helping participants take personal control of professional development. This in turn, encourages self-monitoring of performance and problem solving approaches.

Without critical reflection, unexamined interpretations and assumptions become embedded in practice (Larrivee 2000). The reflective process can assist in bringing about a more conscious approach to teaching methods and initiate a more student-centred, flexible and innovative learning environment (Kroll 2010). Richards and Lockhart (1996) concur that heightened levels of communication and problem solving approaches can be derived through the integration of aesthetic elements (David & Glore 2010), that there can be hesitation on the part of academics to integrate aesthetic elements within their work for fear of being judged as “hiding poor scholarship”, the site seeks to model elements required to achieve engaging as well as pedagogical content. A considerable body of research indicates that heightened levels of communication and engagement can be derived through the integration of aesthetic elements (David & Glore 2010; Junk, Deringer & Junk, 2007).

TECHNOLOGICAL CONSIDERATIONS

Initially, research was undertaken in order to decide on the best platform to utilise. The use of a website was not an option due to lack of funding. A secure system which was free and accessible to teaching staff was required. Moodle and Blackboard Learning Management Systems both fitted this category. A number of studies indicated that both instructors and students preferred Moodle (Machado & Tao 2007). Reasons cited range from finding the system more dynamic in terms of sequential construction of activities for instructors to easier for both instructors and students (Corich 2005).

These findings correlated with our own experiences of the technologies. However, a number of other features needed to be taken into account. The long term viability of the platform was a fundamental consideration. The fact that Moodle is an open source system means that it does not have support in the same way as a fee paying system. In addition, the Discussion Board was seen as superior on the Blackboard LMS (Ural & Ural 2011). Another feature of Blackboard is that it gives opportunity for meetings to be organised synchronously if required. It also provides a number of other embedded tools such as Voice-board, used for language development and feedback, and Turnitin used for developing awareness of plagiarism issues.

A further point in favour of Blackboard was that the storage capacity is far superior to that of Moodle (Corich 2005, p.158). Thus Blackboard was chosen as the platform, even though it was felt to be somewhat less user friendly than Moodle. The Blackboard platform offered capacity, the availability of a wide range of e-learning and teaching tools, long term viability, a technical support system and was immediately accessible to all staff members. Furthermore, as the Blackboard LMS is used in our centre, utilising this platform for our TLC means that meetings can either be arranged synchronously if required. The Blackboard platform offers capacity, the availability of a wide range of e-learning and teaching tools, long term viability, a technical support system and was immediately accessible to all staff members. Furthermore, as the Blackboard LMS is used in our centre, utilising this platform for our TLC means that meetings can either be arranged synchronously if required. It also provides a number of other embedded tools such as Voice-board, used for language development and feedback, and Turnitin used for developing awareness of plagiarism issues.

As in the non-virtual world the success of group meetings can either be inhibited or enhanced due to simple aspects such as the quality of the space and seating arrangements. Therefore, during the construction phase, as the TLC co-ordinators, we took on the roles of architects and designers. Our goal was to create a strong structure with fixed multiple “rooms” which had a simple interface, that is, were easy to enter and exit from. These areas were designated to be used as either co-ordinator uploaded content zones or interactive zones for members to upload to. In order to preserve the integrity of the structure the control of the platform was established by enrolling participants as students whilst the TLC co-ordinators were assigned instructor status.

Design was a key feature in the initial development of the online platform. This involved further research and decisions in regard to graphic elements such as branding, font, images, organisation and layout (see Figure 1). Contrary to the view of Lynch (cited David & Glore 2010), that there can be hesitation on the part of academics to integrate aesthetic elements within their work for fear of being judged as “hiding poor scholarship”, the site seeks to model elements required to achieve engaging as well as pedagogical content. A considerable body of research indicates that heightened levels of communication and engagement can be derived through the integration of aesthetic elements (David & Glore 2010; Junk, Deringer & Junk, 2007).

Figure 1: View of entry page
PEDAGOGICAL CONTENT MANAGEMENT

In addition to the roles of architect and designer, it was necessary for the co-ordinators to take on pedagogical and managerial roles (Junk, Deringer & Junk, 2007). These roles, also known as “cognitive presence” (Kanuka & Garrison 2004, p21) imply a level of decision making on the part of co-ordinators of online communities. This is undertaken in the knowledge that simply establishing the platform does not guarantee the participation in and success of an online learning community. In fact, even the best designed site may not encourage discussion and collaboration (Hung & Chen 2001).

The central function of the Online Teaching and Learning Community draws on the work of Garrison and Kanuka (2004, p 99). They caution that in order to achieve higher levels of learning in an online environment, it is necessary for more than an exchange of views to occur. Thus a range of activities are made available to ensure participation is diverse and meaningful. These involve requesting responses to research articles or video content, discussion forums, practicums, surveys, guided reflection and peer mentoring opportunities (see Figure 2).

RESEARCH CAPACITY BUILDING

An additional feature of the online teaching and learning community is its ability to provide a permanent storage facility for research material. A library of relevant quality source material is regularly updated and made available to staff. Collection and collation tools have also been made available within the platform. Staff are encouraged to share and consolidate their own observational research via Blogs and Discussion Boards. This type of research is a valuable resource and is instrumental in enabling and supporting teachers to integrate their research into their practice (Cochrane-Smith & Lytle, 1993 in Shollier 2006).

In addition, staff are encouraged to establish blogs to share resource links. Such activities are not only designed to develop knowledge and enable an exchange of ideas, but also to embed a significant level of reflection to encourage teaching staff to adapt and improve their practice (Kroll 2010). An example of this is a set of guided reflection tasks which ask the members to reflect on their practice and then join a discussion on what they have learned and brainstrom how they might modify their future practice.

E-LEARNING AND E-TEACHING DEVELOPMENT

The online model also offers the opportunity for professional development of Information and Communication Technology enhanced teaching practice. As highlighted by Hughes (2005 in Hew & Thomas 2007, p227) “teachers need to have technology supported-pedagogy knowledge and skills base, which they can draw upon when planning to integrate technology into their teaching”. This goal is in keeping with the work of Shin (2007) whose research found that the more teachers perceive the usefulness and ease of use of ICT, the more positive their attitudes will be to integrate ICT into their teaching. So in our context, by building teachers technology-supported-pedagogy, the challenge is to lead the teaching staff towards understanding the need for change and to consequently revise their professional practice. This will encourage confidence in replacing traditional learning content delivery without depleting curriculum coverage (Hew & Thomas 2007).

Rather than skills development focusing on the way the technology is operated (Watson 2001) the online pedagogical and managerial roles (Junk, Deringer & Thomas 2007, p227) “teachers need to have technology supported-pedagogy knowledge and skills base, which they can draw upon when planning to integrate technology into their teaching”. This goal is in keeping with the work of Shin (2007) whose research found that the more teachers perceive the usefulness and ease of use of ICT, the more positive their attitudes will be to integrate ICT into their teaching.

Figure 3: Example of Discussion using Table Format in WIKI

<table>
<thead>
<tr>
<th>Confidence</th>
<th>The self-confidence comes from drawing out their skills and making them aware that they are actually able to communicate successfully with students from other cultures, including the local students.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group work</td>
<td>The students come with good study skills so it seems important that we foster and instil confidence and a belief in themselves.</td>
</tr>
<tr>
<td>Different styles of education make it hard for Ss &amp; educators. However, all international Ss are risk takers &amp; need confidence. As educators, we can assist Ss in gaining confidence.</td>
<td></td>
</tr>
<tr>
<td>How can we practically ease the process of transition and transformation in students? Both local and international students are shifting to a global perspective.</td>
<td></td>
</tr>
</tbody>
</table>

TLC seeks to model as well as give opportunity for practice which can then transfer directly to their classroom (see Figure 3). Through participation, teaching staff are able to utilise a range of tools and be exposed to a variety of online exemplars. This means that staff are able to develop their ICT knowledge and skills in an integrated manner. This experience of ICT based pedagogy in the role of teacher learner is intended to assist teachers to gain confidence and to encourage them to adopt ICT into their regular content delivery as a way to enhance their teaching. This integration of delivery mode with embedded practice is also one which has been adopted by a number of teacher training courses (Jung 2005).

SOCIAL ENGAGEMENT

A further essential factor in successful online interaction, referred to by both Bonk and Dennen (2005 in David & Glore 2010) and Junk et al (2007) is the need to provide a social environment. At the ELC, staff members may not know each other as there is a degree of dispersion in the work in environment. To overcome this anonymity, members are asked to share resource links. Such activities are not only designed to develop knowledge and enable an exchange of ideas, but also to embed a significant level of reflection to encourage teaching staff to adapt and improve their practice (Kroll 2010). An example of this is a set of guided reflection tasks which ask the members to reflect on their practice and then join a discussion on what they have learned and brainstrom how they might modify their future practice.
to utilise the Blackboard LMS personalisation tool. Individuals upload their own image which then indicates their presence visually in discussions, blogs and wiki pages etcetera. This means all entries show a staff member’s entry alongside an image of them (see Figure 4). This enhances the contact between members by enabling staff to recognise each other in corridors and lifts and face to face meetings. This is also done in part through aesthetic design, as discussed earlier, but also requires activities, information and opportunities for interchange which encourage collaboration and community building. Moreover, the Online TLC site goes beyond the immediate collaboration and community building. Moreover, the Online TLC site goes beyond the immediate collaboration and community building. These involve strategic, ongoing participation levels, activities have been incorporated as asynchronous components of regular paid meeting times. Another challenge is the time demands on the coordinators to manage the site by keeping it up to date, relevant and sustainable.

CONCLUSION

The aim of developing our online TLC was to facilitate a depth of knowledge building and creation of a place of exchange where practice is shared and inquiry and reflection encouraged. It sought to resolve issues of isolation and bring together in a meeting place free of time and space constraints. A key challenge is to maintain a long term viable system which is technically supported. Moreover, the maintenance of engagement levels and achieving openness in forums are also key concerns. This means careful attention has to be taken to ensure that the tools do not become onerous and that a connection to professional development is evident. It is important to take into account studies which indicate that membership of these types of learning communities are usually voluntary (NTCE 2010). However, a lack of time can be a strong inhibitor even for volunteers. Therefore, in order to encourage involvement and participation levels, activities have been incorporated as asynchronous components of regular paid meeting times. Another challenge is the time demands on the coordinators to manage the site by keeping it up to date, relevant and sustainable.

However, though there have been some challenges in the Stage One phase, it is a positive step forward that there now exists a place in which quality communication and professional development can occur. Furthermore, it is a place in which teaching staff can actually practice using e-learning and teaching tools specific to the University’s learning management system.

Stage Two of the project will seek to gather data to measure participation levels and any professional development benefits derived for our centre.

REFERENCES


