

Student Perceptions of Effective E-moderation: A Qualitative Investigation of E-College Wales

Brychan Thomas, Paul Jones, Gary Packham and Christopher Miller

University of Glamorgan
wpjones1@glam.ac.uk

ABSTRACT

This study examines student perceptions of effective e-moderation and contrasts against existing literature. The study investigates the online BA Enterprise offered by the University of Glamorgan, supported by “Blackboard” software. The methodology involved interviews with 35 students using a semi-structured questionnaire to elicit responses on perceptions of effective e-moderation. Questionnaire analysis revealed that students identified quality and quick turnaround of feedback, availability of a tutor at key times and approachability as constituents of effective e-moderation. The e-moderator was characterised as a councillor, tutor and subject specialist. This study can be utilised by e-learning practitioners to develop an effective code of practice for e-moderators.

Keywords

Student, effectiveness, characteristics, perception, e-moderation

INTRODUCTION

The development and emergence of e-learning provides challenges for the providers of on-line courses in the development of effective pedagogy. A key facet to the emergent pedagogy is the role of the on-line tutor or e-moderator. The e-moderator faces a diversity of challenges including instructional design and organisation, facilitating discourse and directing student instruction (Anderson & Garrison, 1998). To achieve an understanding of what behaviour constitutes effective e-moderation it is critical that the student experience and perceptions of e-moderation are investigated. This investigation of the student experience will form the basis for the development of a code of practice for effective e-moderation within E-College Wales (ECW). This paper reports the results of a survey of student perceptions of effective emoderation. The aim of this study was to elicit responses as to what factors constituted effective e-moderation and the role of the on-line tutor. The research instrument asked respondents to identify examples of effective and ineffective e-moderation practice, characteristics of the e-moderator and suggestions for “best practice”.

STUDENT PERCEPTIONS OF EFFECTIVE E-MODERATION: A LITERATURE REVIEW

Literature concerning student perceptions of effective e-moderation can be reviewed according to student perceptions and experience, student attitudes and satisfaction, student contributions and relationships, and course effectiveness. These are described below.

Student perceptions

Student’s perceptions of distance learning, on-line learning and the traditional classroom were considered by O’Malley and McCraw (1999). They noted that until the late 1980’s, the primary educational delivery model for colleges was essentially the traditional lecture. Students were predominantly single, residential eighteen to twenty-three year olds although non-traditional working students were increasing. With the New Millennium a greater proportion of the student population is changing to married, employed and non-residential. With new technologies, knowledge delivery modules have also developed to better equip the educational sector in order that they can adequately respond to this market demand. These now include on-line education (with access through the Internet) and distance education involving interactive learning. From the study undertaken it was found that students perceive distance and on-line learning technologies to have provided some benefits. Pearl (2003) reports that online learning courses are aimed at those who prefer student centred learning which enables

them to manage their time within course constraints. This gives students the means to study at home, in the office or on the move.

Picciano (2002) goes beyond student perceptions and considers issues of interaction, presence and performance in an online course. Questions exist on the nature and extent of the interaction and the effect on student performance. Much research is based on student perception of the quality and quantity of their interactions and how much they learn on an online course. The purpose of the study reported by Picciano (2002) was to examine online course performance in relationship to student interaction and the sense of presence on the course. The study attempted to go further than typical institutional performance measures such as grades and withdrawal rates and examined measures linked to course objectives. The results of a survey (Volery and Lord, 2000) concerning students enrolled on an on-line management course at an Australian University identified three critical success factors as technology, the instructor and the previous use of the technology from a student's perspective.

Student experience

It is apparent that successful e-learning takes place within a system involving the student experience of e-learning and the teaching-learning context (Alexander, 2001). This conception of e-learning has a major influence on what students learn. A paper by Childs (2003) describes the ANNIE project (Accessing and Networking with National and International Expertise), which aimed to enhance student's learning experience in Theatre Studies. This was achieved by enabling access to research-led teaching and to workshops led by practitioners of national and international standing. Most participating students had little or no experience of educational technologies and the participating university departments had not developed a distance-learning infrastructure. The project therefore initiated the development of expertise and technological support for remote access to experts in the departments.

Cox, Clark, Heath and Plumpton (2000) examined the online processes of 700 students' experiences and made recommendations for good practice. They remark that an environment exists where technological change is daily and that the understanding of student learning online is in its infancy. Denard (2003) offers a reflection on experiences of designing Web activities that seek to develop student autonomy and creativity in learning as well as supporting student's collaborative work. This is set in the context of resource-based learning, which takes place most effectively when students are engaged in creating, manipulating, editing and interpreting resources.

Students' attitudes and satisfaction

Arbaugh (2001) has assessed how instructor immediacy behaviours affect student satisfaction and learning in Web-based MBA courses. In this study instructor classroom behaviours 'immediacy behaviours' were considered to determine whether they were significantly associated with student learning and satisfaction. It was noted that immediacy behaviours represent instructors' attempts to reduce the social distance between themselves and students. The study found that while immediacy behaviours were positive predictors of student learning and satisfaction other factors such as student attitudes towards course software, length of course and prior student experience with Web-based courses were also significant predictors.

Wang (2003) comments that current models for measuring students' evaluation of teaching effectiveness are perceived as inapplicable for measuring learner satisfaction with asynchronous e-learning systems since they are aimed at either organisational information systems or the classroom education environment. As a consequence his study developed a comprehensive model and instrument for measuring learner satisfaction.

Student contributions and relationships

Benfield (2000) notes that the teacher is at the behest of the students' actions (or lack of them) when moving from face-to-face teaching to online delivery. As a consequence student passivity or 'silence' is difficult to interpret. Accordingly there is a need to establish a welcoming, 'safe' environment that encourages students to contribute to written discussions. By using student self-assessment it is possible to create a learning environment that is characterised as more student-centred than teacher centred (Berge, 1996). Evidence shows that there is a long history in the Open University and its Business School of a social constructivist approach to distance education emphasising a facilitative pedagogical style encouraging dialogue to, and from, the student at a distance (Salmon and Giles, 1997).

Coppola, Hiltz and Rotter (2002) describe the affective role of e-learning which relates to relationships with students and requires new tools to express emotion while making the relationship more intimate. This is in contrast with the managerial role, which deals with student monitoring. They report a change in the teaching persona emphasizing multilogues with students.

Course effectiveness

Drago, Peltier and Sorenson (2002) form measures of quality of on-line course content by using a standard student evaluation questionnaire. They note that there are a growing number of studies, which have been directed at programmes where an instructor is teaching students simultaneously in multiple sites in a synchronous learning environment where course material is presented and discussions occur for all students at the same time. It is reported that few studies have explored quality issues for programmes where students take a course completely on-line in an asynchronous learning environment and students have some control over when the material is viewed and when they wish to participate in discussions. They conclude that research on the teaching effectiveness of on-line courses is necessary for these courses to offer the quality that students expect. It is recognised that on-line moderators need to help students migrate quickly to the asynchronous environment to minimise learning disruption (Kiernan, Thomas and Woodroffe, 2001).

According to Mazoué (1999) the aim of effective online course design is to produce a network-learning environment where students are able to construct adequate models of a targeted knowledge domain and acquire competence in using them in real-life. Motivational support is provided to students, which is necessary for an effective online course. The question remains whether student perceptions of emoderation are markedly different from the identified literature.

E-COLLEGE WALES

The study is based on the on-line BA Enterprise programme, part of the Objective 1 funded ECW initiative designed by the University of Glamorgan, which aims to help improve the entrepreneurial capacity of Wales. The programme is funded by the European Social Fund (ESF) and supported by a network of Welsh Further Education colleges whose primary objective is to maintain and develop the learning in regional centres throughout Wales. The course is supported by “Blackboard” software and utilises a number of synchronous and asynchronous communication mechanisms including discussion boards, e-mail and virtual classrooms. Course materials are linked to “Blackboard” via a virtual learning environment (VLE) supporting text based learning material and case studies utilising graphical and audio techniques.

METHODOLOGY

The methodology consisted of forty-minute interviews with students from the University of Glamorgan and partner colleges utilising a semi-structured questionnaire developed by the study authors. The aim of this research instrument was to elicit responses from respondents as to what factors constituted effective e-moderation and student perceptions of the role of the on-line tutor. The questionnaires asked the respondents to identify examples of effective and ineffective e-moderation practice, characteristics of the e-moderator and suggestions for “best practice”. Students from the University of Glamorgan and partner colleges were invited to take part in the study and thereafter a series of interviews were arranged from September to November 2003 in each of the centers. Thirty-five students from the 2nd and 3rd year of the BA Enterprise programme completed this process. The questionnaire results were then evaluated and cross-compared to identify commonality and key trends.

FINDINGS

This section will appraise the results of the survey to identify what factors constitute effective emoderation and to rank these in order of significance. Thereafter ineffective emoderation is appraised and again ranked in order of importance. Examples of both practices are provided from reflection on emoderator experience. This section concludes by identifying the key characteristics of an emoderator.

Age Groups	20-30	31-40	41-50	51-60	61-70
Frequency	3	11	12	9	0
%	8	31	35	27	0

Thirty-five students from the BA Enterprise programme completed the interview process including 20 (58%) males and 15 (42%) females. The student population was mature with 62% aged over 41 (see Table 1). Only 8% were aged 20-30 years of age. The main explanation for the phenomena is the target market for the BA Enterprise programme. The purpose of the course was to encourage entrepreneurship within non-traditional learners. Students who undertook the course were typically middle aged and in employment and undertook to study the course around their working and personal lives.

Effective E-moderation

Students were asked to consider what factors in their opinion constituted effective e-moderation. Five prime factors were identified namely regular and rapid feedback, constructive and positive feedback, support and encouragement, enthusiasm and organisation and direction. Each of these prime factors is not considered in turn: - *Regular and Rapid feedback*

Twenty-seven (77%) of students identified regular and rapid feedback as an essential element of effective e-moderation. Four respondents suggested a timeframe of 48 hours for e-moderator to reply to student communications. Students' expected prompt and regular feedback from their e-moderators' quotes included: -

"The better e-moderators respond regularly and quickly to my needs".

"I would like to see any email or discussion board thread responded to in 48 hours or less. I don't think this is unrealistic and at the beginning of the course it should be less".

Constructive and Positive Feedback

Thirteen students (38%) identified the importance of constructive and positive feedback from e-moderators for coursework and weekly activities.

"Distance learning is different to more traditional methods of study & requires student self regulation, so it is important for e-moderators to foster & reinforce learning goals and targets, using positive feedback"

"My time on line is precious. So what I need is realistic criticism of my work where both its strengths and weaknesses are identified and evaluated".

Support and Encouragement

Seven (19%) of students identified the importance of support and encouragement from the e-moderator. Students expected e-moderators to provide ongoing support and encouragement to individual students.

"Enthusiasm and support from the e-moderator is essential to create a positive learning atmosphere"

Enthusiasm

Fifteen students (42%) identified the importance of e-moderator enthusiasm. This factor has obvious links with the support and encouragement factor.

"Enthusiasm in all e-moderator activities such as responding to threads, enthusing about the subject matter and boosting your confidence are all very important to me".

Organised & directed

Thirty-one percent (11%) of surveyed students identified the importance of an organised e-moderator. Students liked e-moderators to demonstrate several competencies including subject knowledgeability, organisation and guidance and advice skills. E-moderators that possessed these skills made the student learning experience more enjoyable and structured and therefore less stressful.

"I find it important that the e-moderator provides direction in terms of managing the learning in terms of weekly tasks. This includes directing, managing and closing the discussion. Providing summaries of these discussions is also useful.

Effective E-moderation factors by order of Significance

Students were asked to rank the factors that constituted effective e-moderation in order of significance. Of these the top ranked factor was regular and rapid feedback with 19 first rankings. Thereafter constructive and positive feedback and support and encouragement were equally 2nd ranked with six top rankings. The significance of these factors is reinforced by average rankings whereby regular and rapid feedback attains the

lowest average (1.38) followed by constructive and positive feedback (1.8) and organised and directed (1.86). E-moderator enthusiasm was considered of less importance with only one top ranking and an average of 2.62.

Examples of effective E-moderation

Students were asked to provide examples of effective e-moderation and how they had impacted on the student and their studies: -

“The feedback from the first assignments helped spur me to work harder for the second. Thus at least I considered I was being rewarded for the work done. The feedback was both positive and also identified improvements”.

“The feedback so far has been positive and made me want to contribute more. Leaving threads can be a demanding experience because you want to leave something of value, which often requires background reading. The feedback has made me comfortable with this process and the value of my contributions”.

“In the early stages of this course a helpful, knowledgeable e-moderator makes the difference between finishing and staying on the course”.

“I have personally had the need for a lot of support due to personal problems since the start of the course. The tutors helped me through and encouraged me to carry on”.

“The feedback on the discussion board encouraged me to contribute further and to research more into the subject that I was studying. It also provided me with a different perspective which broadened my view on the topic being studied”.

“I also felt encouraged when tutors replied to my contributions, as I knew they had been read and my point of view has been considered. As this was our main form of communication, this contact was important”.

Ineffective E-moderation

Students were asked to identify ineffective e-moderation practices. Three main factors were identified namely infrequent and delayed communication/feedback, ineffective e-moderator organisation and negative or brief feedback.

Infrequent and Delayed Communication/feedback

Sixty two percent (22) of survey respondents identified infrequent and delayed communication or feedback as a prime cause of student dissatisfaction. This factor included delayed, late or infrequent responses to student email or discussion threads and posting one general message to respond to several student messages. Student responses included: -

“Lack of response, which indicates forum postings are not being read, makes the student feel isolated”.

“Lack of feedback and communication initially made me feel isolated and I had to find my own solutions to the problems I faced. These were not always the best solutions and sometimes caused me more work. This resulted in great frustration and probably undermined my confidence”.

Ineffective E-moderator organisation

Nineteen percent (5 respondents) of students identified ineffective e-moderator organisation as a cause of frustration. These included the changing of dates and the reorganisation of course related issues at the last minute, the late return of assignment feedback and the lack of clear instruction in terms of task and assignment completion. Student responses included: -

“There was a lack of organisation from the e-moderator in one particular module. We were very much left to fend for ourselves with very little help or assistance. We had no idea when to complete tasks and the e-moderator did not summarise the contributions, which had been made. I found the whole thing extremely frustrating”.

Negative or Brief Feedback

Negative or brief feedback was identified as an example of ineffective e-moderation by 58% (20 respondents). This behaviour included limited, brief and negative feedback to tasks and assignments, which undermined confidence and motivation. Student responses included: -

“Negative or brief feedback, both of these are ineffective as they stunt a student’s confidence. It is paramount that behaviour is avoided”.

“Negative feedback can be very discouraging, and when given impersonally with no encouragement or praise to ease the pain it can be very damaging to progress”.

Ineffective E-moderation by order of Significance

Survey respondents were asked to rank the identified factors of ineffective e-moderation. The problem of infrequent and delayed communications was identified as the most significant factor with 25 top rankings and the lowest average of 1.07. Thereafter negative/brief feedback (4 top rankings, 1.81 average) and ineffective e-moderation/organisation (1 & 1.96) were 2nd and 3rd ranked factors.

Impact of Ineffective E-moderation

Students were asked to comment on the impact of ineffective e-moderation on their studies:-

“Online manner can have this effect. One e-moderator I have encountered did not have a positive online personality. As a result I avoided participating in this module. Their comments were often dismissive and did not encourage further discussion”.

“I have not had feedback to all my submissions, but had favourable responses to most so I cannot say that I was affected by infrequent communication. However without communication between the student and tutor there seems little point of contributing because there is no way of knowing whether or not you are on the right track”.

“Feedback from assignments is varied. Some come back within days others take 4 weeks. This means checking email often to see whether feedback has arrived. Waiting for results can be nerve wracking. Feedback varies and in general I am not always sure where the loss of points comes from. I find feedback quite general”.

Characteristics of e-moderator in 5 key words

Students were asked to identify the key characteristics of the role of the e-moderator in 5 key words. Six main characteristics were identified (see Table 2) whereby the e-moderator’s ability to support and understand the student were given most credence with 92%, followed by organised and efficient 73% and flexible and approachable 65%.

Characteristic	Frequency	%
Supporting, Understanding and Encouraging	32	92
Organised Efficient and effective	26	73
Flexible and Approachable	23	65
Knowledgeability of Subject matter	14	40
Motivated	15	5
Facilitator and Communicator	8	24

CONCLUSIONS

Our research has indicated that students have predetermined expectations of what they expect of an e-moderator and certain characteristics and behaviours are required to ensure effective e-moderation. The initial student perceptions of what to expect from the e-moderators is probably biased by previous educational experiences of traditional teaching. This phenomenon is enhanced within this particular study, as the respondents were non-traditional learners with the majority of the group over the age of forty. This study has identified a range of factors that students consider prevalent within effective and ineffective e-moderation. Some factors can be considered essential skills including communication, feedback and organisation, whilst certain personal qualities and character traits were identified such as enthusiasm, support and encouragement, flexibility and approachability and knowledge. Effective e-moderation skills included regular and rapid feedback, constructive and positive feedback, support and encouragement, enthusiasm and organisation and direction. Ineffective e-moderation included infrequent and delayed communication and feedback, ineffective organisation direction and negative and brief feedback. As would be expected the ineffective e-moderator factors are the direct opposite of effective e-moderation, although e-moderator enthusiasm and support and encouragement were given less prevalence. This factor can be attributed to the fact that students were generally satisfied with e-moderator

support and enthusiasm and considered them less significant than the other factors. When asked to identify the characteristics of the e-moderator the same trends emerged as the effective e-moderation query with the addition of factors such as knowledgeability and tutor's flexibility and approachability. This research has reinforced the need for effective e-moderator skills and the evaluatory framework presented in Figure 1 is suggested as a mechanism through which to gauge the effectiveness of individual tutors by both tutors and students.

Figure 1: An Evaluatory Framework for Assessing E-moderation Competencies							
Experience Scale		Negative		Neutral	Positive		Experience Scale
E-moderator Skills	Infrequent & delayed communication	1	2	3	4	5	Frequent & effective communication
	Negative & brief feedback	1	2	3	4	5	Constructive & positive feedback
	Ineffective Organisation	1	2	3	4	5	Organised and directed learning
Personal Qualities & Characteristics	Lack of emoderation enthusiasm	1	2	3	4	5	Positive Emoderation enthusiasm
	Ineffective Support & Encouragement	1	2	3	4	5	Effective support & encouragement
	Insufficient Tutor flexibility & Approachability	1	2	3	4	5	Effective Tutor flexibility & Approachability
	Insufficient Subject Knowledge	1	2	3	4	5	Expert Subject Knowledge

This research has provided the course team with some interesting data with regard to what students expect in terms of practice and behaviour from the emoderating team. An open dialogue was encouraged to ensure that all e-moderating issues would be identified and addressed. Given that the BA Enterprise programme was a pilot e-learning course within the University of Glamorgan problems were bound to occur. For example traditional teaching staff within the University and partner colleges had to be trained in the use of Blackboard and thereafter develop their own online moderating style. Initially standards of practice were varied. However, a code of practice has emerged based mainly on the asynchronous communication mechanisms (discussion boards and email). Students can expect individual feedback within 48 hours from an email or discussion thread. In addition, emoderators are expected to open weekly activity schedules informing students and summarise completed discussions within forums. It is a key activity of the emoderator to guide discussion to ensure the learning activities have provided the students with sufficient knowledge to complete the assignment. Good practice is shared between e-moderators and standards monitored by a separate department.

In conclusion this study can be seen to update previous studies by academics such as Berge (1995) and Salmon (2000). It identifies that e-learning remains an emergent area in terms of pedagogy and learning environments. Therefore it must be noted that the earlier frameworks of e-moderation will be the subject of change as technological developments alter and enhance the role of the e-moderator. In addition the e-moderator framework will differ with each provider depending on the platform, technology and pedagogy. Our research indicates correlation with Salmon (2000) and Berge (1995) in terms of communication skills, content knowledge and personal characteristics. However, the ECW model places less emphasis on Technical capability as it has developed technical support mechanisms and there is more significance given to the tutor support role.

REFERENCES

- Alexander, S. (2001) E-learning experiences, *Education + Training*, Volume 43, Number 4/5, pp. 240-248.
- Anderson, T., & Garrison, D. (1999). 'New Roles for Learners at a distance', in C. Gibson (ed.), *Distance Learning in higher Education: Institutional responses for quality outcomes*, Madison, WI: Atwood Publishing.
- Arbaugh, J.B. (2001) How instructor immediacy behaviours affect student satisfaction and learning in Web-based courses, *Business Communication Quarterly*, Volume 64, Number 4, pp. 42-54.
- Benfield, G. (2000) Teaching on the Web – Exploring the Meanings of Silence, *ultiBASE*, <http://ultibase.rmit.edu.au>.
- Berge, Z. (1995). Facilitating Computer Conferencing: Recommendations from the field. *Educational Technology*. 35(1), 22-30.
- Berge, Z. (1996) Characteristics of online teaching in post-secondary formal education, *eModerators*, Berge Collins Associates.

- Childs, M. (2003) E-tutoring in synchronous and asynchronous environments, *Interactions*, Centre for Academic Practice, University of Warwick.
- Coppola, N.W., Hiltz, S.R. and Rotter, N.G. (2002) Becoming a Virtual Professor: Pedagogical Roles and Asynchronous Learning Networks, *Journal of Management Information Systems*, Spring, Volume 18, Number 4, pp. 169-189.
- Cox, E.S., Clark, W.P., Heath, H. and Plumpton, B. (2000) Key Facilitation Skills for Effective Online Discussion Groups: Herding Cats through Piccadilly Circus, *International Distance Education and Open Learning Conference*, University of South Australia.
- Denard, H. (2003) E-Tutoring and Transformations in Online Learning, *Interactions*, Centre for Academic Practice, University of Warwick.
- Drago, W., Peltier, J. and Sorensen, D. (2002) Course Content or the Instructor: Which is More Important in On-line Teaching? *Management Research News*, Volume 25, Number 6/7, pp. 69-83.
- Kiernan, M., Thomas, P. and Woodroffe, M. (2001) Does the medium dictate the message? Cultivating e-communication in an asynchronous environment, *Open University*, Walton Hall, Milton Keynes.
- Mazoué, J.G. (1999) The essentials of effective online instruction, *Campus-Wide Information Systems*, Volume 16, Number 3, pp. 104-110.
- O'Malley, J. and McCraw, H. (1999) Students Perceptions of Distance Learning, Online Learning and the Traditional Classroom, *Online Journal of Distance Learning Administration*, Volume II, Number IV, Winter, pp. 1-11.
- Pearl, A. (2003) How does one guide the learner in online learning? 4th Annual LTSN-ICS Conference, NUI Galway, pp. 185-189.
- Picciano, A.G. (2002) Beyond student perceptions: issues of interaction, presence, and performance in an online course, *JALN*, Volume 6, Issue 1, pp. 21-40.
- Salmon, G. (2000) *E-moderating: the key to teaching and learning online*, Kogan Page, London.
- Salmon, G. and Giles, K. (1997) *Moderating Online*, eModerators, Berge Collins Associates.
- Volery, T. and Lord, D. (2000) Critical success factors in online education, *The International Journal of Education Management*, Volume 14/5, pp. 216-223.
- Wang, Y-S. (2003) Assessment of learner satisfaction with asynchronous electronic learning systems, *Information & Management*, Volume 41, pp. 75-86.