Increasing Students’ Engagement by Treating Learning in Research Mode

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The development of research-based teaching and learning methods implies the examination of various ways in which research-teaching connections are used to enhance students’ employability and lifelong learning skills via engagement with the research process.
Active learning opportunities have been created and implemented enabling higher level of engagement of post-graduate students in research-based learning. They focused on the study and critical appraisal of current discipline-based research issues and development of research solutions.

The presentation will analyze how creating an inclusive community where learners, lecturers and researchers are seen as scholars in the common pursuit of knowledge by promoting the inquiry-based learning contributes to the university strategy to excel in research, innovation and education and have a critical mass of research excellence across a wide range of disciplines.
How academics conceptualise research and scholarship?

COMPONENTS OF RESEARCH-TEACHING NEXUS

Teaching can be research-led (i.e. include the products of the research process)

Teaching can be research-orientated (i.e. the curriculum includes an understanding of the research process)

Teaching can be researched-based (i.e. the curriculum is designed around inquiry-based activities, the practice of research)

Teaching can be research-informed (i.e. based upon research into teaching and learning)
“Good scholarship, in the sense of remaining aware of the latest research and thinking within a subject, is essential for good teaching.

This is not sufficient to achieve the aim of excellent and inspirational teaching in a research-intensive context.”


Content

“Good scholarship, in the sense of remaining aware of the latest research and thinking within a subject, is essential for good teaching.”

Good scholarship to support and deliver teaching goes significantly beyond the scholarship that is necessary to provide the context and linkages to specific research projects.

https://elgg.leeds.ac.uk/tanmexux/weblog
Reputation and excellence in research does not automatically correlate with excellent or inspirational teaching.

Teaching of this calibre requires advanced skills (particularly working and communicating with students) that are not necessarily part of a researcher's skill set.

Developing and producing curriculum - the ability to do this is required to convert both research and scholarship into excellent and inspiring teaching and an excellent student experience.

https://elgg.leeds.ac.uk/tanrnexux/weblog

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Linking research to teaching and learning involves far more than constructing modules with the latest research results as content:

- engaging students in research and research-like activities
- inducting students as practitioners and partners into a research community and culture with their lecturers and tutors
- developing students’ skills to collaborate in the knowledge construction process and become aware of the nature and status of knowledge as constructed, provisional, negotiated and sanctioned.

https://elgg.leeds.ac.uk/tanrnexux/weblog
‘Discovery’ research and scholarship

Process of research

Process of knowledge construction

Process of learning

Current learning trends

INSTRUCTION
Teacher-centred
face to face
synchronous
solo learning
once only
single medium
self contained
local context

LEARNING
Learner-centred
digital or blended
asynchronous, web-based
group learning
lifetime education
multi-media
partnerships
global context
Questions to promote reflective practice in teaching

What do we want our students to learn?
What learning opportunities do we provide?
What feedback do we give?
What assessment tasks do we set?
What methods of assessment do we use?
What our students learn?
How do we know?


How do we know ?

Through assessment – but strategic students present declarative rather than functioning knowledge (Biggs, 2003)
Through course evaluation – but influenced by students’ characteristics and lecturers’ charisma
Through pedagogical research – generic (scholarship of teaching and learning) and subject specific
Through carrying out our own action research where the aim is to modify practice

Action research cycle

PLAN

REFLECT

COLLECT

ACT

Improving teaching practice

“Universities should treat learning as not yet wholly solved problems and hence always in research mode”

Von Humboldt, 1970

Strategies for linking teaching and research within courses and programmes
Develop students’ understanding of the role of research in their discipline

Develop the curriculum to bring out current or previous research developments in the discipline

Develop students' awareness of the nature of research and knowledge creation in their discipline

Develop students’ ability to carry out research

Provide ‘training’ in relevant research skills and knowledge

Develop students’ involvement in research
Progressively develop students’ understanding

Provide induction sessions for students about the role of research in their discipline and present knowledge as created, uncertain and contested

Master modules should require the students to do research projects with progressive move to projects of greater scale, complexity and uncertainty

Manage students’ experience of research

Support students in making clear to them the employability elements of research.

It is important for the students whose focus is on using a degree to get employment, and who may not otherwise appreciate the value of research-based approach.

Advantages

Learners could have:

• role-taking experiences (learning through active involvement in real situations)
• provision of personal support for the learner
• reasonable level of challenge and the opportunity of continuous guided reflection with a balance between action and reflection

Advantages

• Use assessment to discover the strengths and weaknesses of students and provide appropriate support to improve student performance.

• Give effective and efficient feedback to students and encourage them to reflect upon their own learning because awareness and motivation are essential to learners’ professional and personal development during active learning process.

• Enable students to develop wider perspectives and respond positively to challenges.
Conclusions

**Active learning opportunities** have been created and implemented enabling higher level of engagement of post-graduate students in research-based learning.

They focused on the study and critical appraisal of current discipline-based research issues and development of research solutions.