## **Entrepreneurship Education**

# Value Creation Programmes: Lessons from an Early Stage Implementation -- Manuscript Draft--

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## Value Creation Programmes: Lessons from an Early Stage Implementation

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## Value Creation Programmes: Lessons from an Early Stage Implementation

#### **Abstract:**

 This paper explores the authors' efforts to design and deliver a Venture Creation Programme (VCP) at the University of Worcester between 2015 and 2017. The purpose of the paper is to present critical insights into the manner in which learning can be facilitated through VCP's using our own experiences as an example.

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This paper provides educators with an original, experiential, insight into the design of a VCP programme and the pedagogical developments required for their successful implementation. There is considerable value herein for higher education institutions who wants to design a new VCP, especially with reference to: the curriculum design, experiential learning activities, types and methods of assessments and online learning environments for entrepreneurial students.

Key Words: Venture Creation Programmes, Pedagogy, Enterprise, Entrepreneurship, Education.

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#### 1.0 Introduction:

1 In September 2016 the University of Worcester became one of only a small number of institutions in the UK to launch a degree in Entrepreneurship where venture creation was a central, assessed, element of learner participation.

There are a very limited number (Lackéus and Williams Middleton 2011) of this type of 'true' Venture Creation Programme (VCP) globally. The authors define a VCP as a practice-oriented degree, combining the creation of a functioning venture with academic study (Lackéus, Williams-Middleton and Lundqvist 2018). The term 'true' is used in this context to reflect the fact that there are numerous programmes which utilise competitions, tools and activities to simulate the experience of start-up processes (Pittaway and Edwards 2012; Scott Penaluna and Thompson 2016) but, these do not embed a mandate for the creation of a functioning venture at their core and/or make the development of this a requirement for the completion of the course.

As this was the newest 'true' Venture Creation Programme (VCP) in the UK, the authors felt that their experiences, the pedagogical 14 challenges they faced and, their reflections upon these, might make a useful contribution to the global literature especially for anyone considering creating a similar programme. Therefore, the aim of this paper is to present the lessons learnt from this early stage implementation to invigorate the discussion surrounding VCP's. The paper will do so by exploring a number of issues central to their successful implementation of the programme with a particular focus on the aforementioned pedagogical challenges, including: curriculum design, teaching methods, experiential learning activities, types and methods of assessments, and online learning environments for entrepreneurial students.

#### 2.0 Methodology

2 The process of education evaluation is an important part of the design and on-going development of any course. The processes which govern this are well established (Molenda 2003), and described in numerous models of education instructional systems design 4 (Clark 1995; Sortrakul and Denphaisarn 2009).

6 The range of methodologies used in evaluating education programmes is as diverse as the programmes themselves (Lewy 1977; Dressel 1980). In the field of entrepreneurship education has been the focus of several publications including, Fayolle, Gailly and 8 Lassas- Clerc (2006), and Vesper and Gartner (1997). These have shown that the evolution of students' attitudes and "mindset" may 9 be a better criteria that purely evaluating the economic impact or the number of businesses created.

11 As this is an early stage evaluation of a programme, the methodology adopted should provide the ability to review the outcomes 12 from a longitudinal perspective. Therefore, the authors adopted Donald Kirkpatrick's four levels of evaluation (Kirkpatrick and 13 Craig 1970; Kirkpatrick 1975), which provides a framework that could be used in stages:

- 1. Level 1 researches the reaction to the learning experience by the student learner. This starts with the reaction and reflection of the programme by the students, understanding their likes and dislikes to all aspects of the programme. Therefore, the key questions of evaluation is what was the student's reaction to the learning environment?
- 2. Level 2 measures the learning by assessing what student have gained in the intended domain. What principles, facts and techniques were learned? The key question at this level is did the students achieve the desired learning objectives?
- Level 3 develops an understanding of the changes in behaviour. What changes over time has the programme developed and solidified? This transfer of practice could be a direct or in-direct result of a module or the overall programme. The key question at this level is, Are the newly acquired skills, knowledge or attitude being used by the learner after the learning event is competed?
- Level 4 evaluates the results and the long-term impact of the programme of the graduate outcome. Kirkpatrick introduces the return on investment and the tallying of measurable long-term impacts to a company, gathering of data from the first three levels correlates with things like graduation rates, job placement rates, and success rates in competitive scholarship or graduate school applications. The key question at this level is, Did the student achieve the desired outcomes of the programme of study?

This investigation uses levels 1 and 2 of this framework, providing an evaluation tool in the first year of university education, and enabling us to tailor the programme for the later years. Levels 3 and 4 could be used on completion of the three year programme supporting the authors to gain a complete view of the VCP education intervention.

The paper presents data, insights and reflections collected during the first year in which the course ran, after this the staff running the course left so further information cannot be presented. The subjects were under graduated students on the VCP Entrepreneurship degree who represented a broad range of ages (18 to 52), social economic backgrounds and a relatively equal mix of genders. The data used in the analyse was gathered through from several sources including curriculum reviews, course meetings, student and staff reflections, meeting notes and other conversations.

Its important to note that reflection is used at a number of levels, students reflect on their experiences in and around the curriculum, staff reflection on their practice, the programme design and the student's development. Osterman and Kottkamp (1993) states that 46 reflective practice is located within the older tradition of experiential learning and also the more recently defined perspective of situated cognition. Experiential learning theorists, including Dewey, Lewin, and Piaget, Kolb's (1984) maintained that learning is most effective, most likely to lead to behavioural change, when it begins with experience, and specifically problematic experience.

As part of the methodology of designing this programme we were faced with a complex pedagogical challenge which required us 52 as entrepreneurship education practitioners to take the time to reflect on this experience. As part of our own reflective practice 53 (Osterman and Kottkamp 1993) we wanted to use this as a framework for understanding individual and organisational opportunities 54 for change.

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#### 3.0 Our Approach

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64 65 The aim of the VCP programme which the authors designed was to encourage students to learn 'for entrepreneurship' (QAA, 2012, 2018) developing not only their knowledge and understanding of entrepreneurship and, its related skills and abilities but, also, the practice of entrepreneurial activity. The vehicle for this was Gibb's (2002 p. 248) concept of 'learning by doing', contextualising and individualising learning experiences through start-up activity so that these could synchronise with key moments in the students venture development lifecycle (Bozward and Rogers-Draycott 2017) to create moments of understanding (Rae 2003), from which critical insights into the students personal and professional development could be realised, and reflected upon.

From the outset, the authors were clear that an unambiguous definition of entrepreneurship was important to act as a keystone of programme development; encouraging consistency and continuity which would underpin the course's design and development. This was drawn from a board literature (Bruyat and Julien 2001; Fayolle 2007; Savasvathy and Venkataraman 2011; Lackéus 2016; 14 Shane and Venkataraman, 2007; Moberg, Stenberg and Vestergaard, 2012; QAA 2012) with the focus being on authors who had 15 specifically addressed the action of venture creation, ideally in an educational context, and whose approaches (either practically or philosophically) were aligned to the goals for the programme (Fayolle 2007; Jones, Matlay, Penaluna and Penaluna 2014; Lackéus 2016) as a result, entrepreneurship would be defined as follows:

'Entrepreneurship is finding and developing opportunities to create value.'

22 This framed entrepreneurial activity in broad terms and focused it on the creation of 'value' (Lackéus 2016) a term which was been left deliberately ambiguous to give students an opportunity to develop ventures that encompassed a range of entrepreneurial action; not just the generation of revenue or profit.

The definition is also permissive rather than prescriptive, it assumes nothing and allows students a freedom to explore their entrepreneurial selves without the constraint of a specific direction (Farmer, Yao and Kung-Mcintyre 2011). This meant that the experience of learning through the programme was most definitely not a 'spectator sport' (Tinto 2003), as students were actively challenged to participate in a cycle of venture creation, reflection, evaluation which informed their development and future activity.

This work formed the basis of the pedagogical methods applied across all the modules either directly, as content, or indirectly, through an influence on programme design and structure.

#### 4.0 Programme Pedagogy

Biggs (1996, 2000) describes the duty of good pedagogical design as one of safeguarding that there are no inconsistencies between the curriculum we teach, the teaching methods we use, the learning environment we choose, and the assessment procedures we adopt. This he defined as constructive alignment. Previous pedagogical developments within VCPs have been researched and published by Gibb, (1993, 2011); Ollila and Williams Middleton 2011; Lackéus, and Williams Middleton 2015; and Mwasalwiba 2010. These investigated the alignment of entrepreneurship education objectives, target audience, teaching methods and impact indicators and found that greater focus should be put on the pedagogical alignment when setting or designing entrepreneurship education experiences

To position the degree in an international best practice context, other VCPs were reviewed during the programme design (Lackéus and Williams Middleton 2011; Lackéus and Williams Middleton 2015). This work was used alongside the authors definition, input 50 from the business community, and the latest guidance from the subject benchmark statements (QAA 2012<sup>1</sup>; QAA 2015) to create the academic foundation for the course. It also provided a means for students and the wider community to understand and, compare, the context and characteristics of the programme against others around the world.

A staged learning narrative was then developed to support the students entrepreneurial learning (Bozward, and Rogers-Draycott 56 2017) this drew on the work of Kuratko, Morris, and Schindehutte (2015) to break the entrepreneurial effort into nine specific steps, 57 each step comprising a number of focal competencies which would need to be met as part of the students entrepreneurial development. A number of other researchers (Bird 1995; Man 2007; Rasmussen, Mosey and Wright 2011; Sanchez 2011) have

<sup>&</sup>lt;sup>1</sup> This has now been superseded by QAA, 2018

found value in the concept of 'competence' to support the structuring of entrepreneurial education and assessment. Competence, in 1 this form, has a wide-ranging conception encompassing knowledge, skills, attitudes, behaviours, work habits, abilities and personal characteristics (Le Deist and Winterton 2007). These focal competencies were then used to underpin the requirements of the curriculum and any assessments at each level within the degree. This framework formed the operational core of the degree, an easily identifiable map of key waypoints for educators and students which needed to be successfully navigated for progression to take place.

Based on this work, the BA (Hons) Entrepreneurship programme focused on the active experience of business creation underpinned by relevant academic knowledge and the development of a broad base of entrepreneurial skills and capabilities. This was delivered through a mixture of dedicated sessions, simulations, work-based learning, enterprise events and interactions with entrepreneurs. The programme schedule was designed with formal sessions on one full day each week thereby maximising the time spent 'on task' while other days were set aside for additional support (mentoring, business clinics, events and team work) and for students to develop 14 their ventures through work-based modules thereby maximising engagement and, hopefully, student outcomes within the curriculum (Lingard 2007; Mioduser, Nachmias, Tubin and Forkosh- Baruch 2002).

#### 5.0 Programme Structure

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The approach and pedagogy positioned the VCP to develop both the student learner, and their business. Therefore, the three-year 21 programme was split into two streams which focused on:

- 1. The Entrepreneur; and
- 2. The Business Venture.

28 In the first year the programme encouraged ideation and venture creation, in the second year this moved aside to facilitate a focus on marketing, sales and cash flow stabilisation whilst the third year was centred around business growth, innovation and investment. The programme was designed to provide flexibility in the final year so that students could tailor their modules and, assessments to suit the needs of their developing business. These negotiated modules allowed the students to formulate the learning outcomes over the module, recognising that even at this stage both business and personal needs might rapidly develop.

This was complemented by the learning environment provided by the university, consisting of not just the classrooms but also space whereby students could develop their businesses. Every student was therefore provided a place in the University's business incubator, they have access to this for the duration of the programme. This location acted as a hub for the broader entrepreneurial student community to engage with the students on this programme. The development of a community (Zimmer 1986; Kilkenny, Nalbarte and Besser 1999) around the programme was seen as very important in embedding the students within the local business ecosystem. The cornerstone of this strategy was recruiting 15 Entrepreneurs in Residence (EiR) from a diverse range of businesses. These business owners acted as entrepreneurial role models (Bosma, Hessels, Schutjens, Van Praag and Verheul 2012; Lafuente, Vaillant and Rialp 2007) as it has been shown as an important factor in the decision to start and influence (Van Auken, Fry and Stephens 2006) the growth of businesses.

In order to foster an authenticity of experience all of the modules within the programme were taught by experienced entrepreneurs (Hopkins and Feldman 1989) with further engagement from local business practitioners who provided mentoring and other associated support. These role models added to the student experience while supporting the practice-oriented pedagogical approach.

<sup>51</sup> The programme is structured around 50% of the credits each year being achieved from Work Based Learning (WBL) modules (Boud and Solomon 2001; Raelin 1997) which is supporting the application of the knowledge developed within the taught modules. This structure is now explored.

#### **5.1 Taught Modules**

 The table (1) below provides a breakdown of the taught modules and how they were divided between the two streams. In these, first year students as entrepreneurs develop their mindset and communication skills, whilst for their business, the process of starting a business and developing a plan. In the second year they develop leadership skills, financial management, advertising, sales and a negotiated learning outcomes module. In the final year, as an entrepreneur the curriculum is focused on decision making, performance and innovation management and the business focused modules developing growth through marketing and international trade.

Table 1: Taught Modules in BA Entrepreneurship Programme

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3 1 5	Taught Modules (15 Credits) 7.5 ECTS	Entrepreneur	Business Venture			
77 77 78 90 11 22 33 44 77 78 90 11 22	Year 1 - Level 4	<ul> <li>Cultivating the Entrepreneurial Mindset</li> <li>Managing Communications in a Start-up</li> </ul>				
	Year 2 - Level 5	<ul> <li>Applied Leadership and Management</li> <li>Leading and Managing Teams and Individuals</li> </ul>	<ul> <li>Finance for Entrepreneurs</li> <li>Selling and Sales Management for Entrepreneurs</li> <li>Advertising theory and practice</li> <li>Startup Advancement (Negotiated module)</li> </ul>			
	Year 3 - Level 6	<ul> <li>Managing Innovation in the Startup Organisation</li> <li>Focusing on Results and Change Management</li> <li>Managing Financial Decision Making</li> <li>Decision Making for Improved Performance</li> </ul>	<ul> <li>Digital and Social Marketing</li> <li>International Trade (Negotiated module)</li> </ul>			

#### 5.2 Work Based Modules

The work-based modules (shown in Table 2) and simulated projects were seen as crucial to the development of core venture skills (Timmons and Spinelli 1999; Zhong-wei 2008) and reflective capacity (Jack and Anderso 1999; Harvey and Evans 1995) linking the theory and practice of entrepreneurship together in practical endeavours. These were structured with varying levels of staff intervention to match the progression of the students. In earlier years there was a greater element of 'control' (Jones, Matlay, Penaluna and Penaluna 2014) and risk mitigation managed by staff to provide a 'safe space' (Jones, Matlay, Penaluna, & Penaluna 2014) in which the student could experience failure and be guided through the process. As they progress through the degree these 'training wheels' were progressively removed and students were challenged in a number of new ways including having to negotiate learning outcomes for modules and, contented with new assessment challenges alongside the growth of their venture. Each module required the student to complete a journal of critical reflections (Cope and Watts 2000; Mezirow 1990) addressing their experiences at regular intervals, bring together the concept of entrepreneurial moments or learning events, especially when initially viewed as discounted (Cope 2003) these series of reflections support the development of higher-level learning. This was used to provide a consistent longitudinal vehicle for reflection of their development throughout the programme.

Table 2: Work Based Learning Modules in BA Entrepreneurship Programme

	Work Based Learning Modules (20 Credits / 10 ECTS)	
Year 1 - Level 4	<ul> <li>Team-based Incubation Project</li> <li>Business Startup Research</li> </ul>	

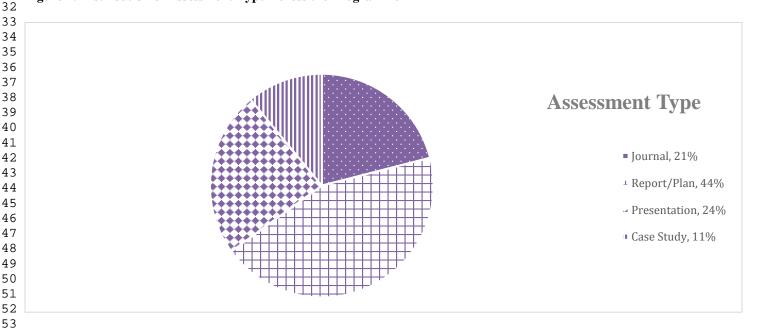
Year 2 - Level 5	<ul> <li>Business Operations</li> <li>Customer Acquisition</li> </ul>
Year 3 - Level 6	<ul> <li>Negotiated Module</li> <li>Investment Readiness / Growth Project</li> </ul>

#### 5.3 Assessment Strategy

 Assessment strategies in Higher Education have been experiencing a period of diversification (Fry, Ketteridge and Marshall 2008) and best-practice development (Rust 2002) meaning that a number of sources are available to inform strategic approaches. For example, Pittaway and Edwards (2012) highlighted several innovative assessment practices which could be used within these types of programme, these include self-assessment and peer assessment. Carey and Matlay (2010) also highlighted best practice assessment strategies from the creative industries which could be applied to entrepreneurship education. Both studies developed the importance of industry or degree community in the assessment process and that exams are not always appropriate for entrepreneurship education.

Across the programme a mixture of assessments types were utilised in order to maximise opportunities for all students to perform and develop skills relevant to both future study and/or venture development. This was done in conjunction of maintaining the constructive alignment of the programme by developing individual competency aligned to the development of the students venture. It was important to use both a diverse and a consistent set of assessment types throughout the programme. A consistent set of assessments allows the students development to be meaningfully measured and also ensures the students ability to master this assessment type is supported and evidenced. A diverse set of assessments helps to challenge the student's development and provides the opportunity for them to evidence their learning in different contexts which is key part of the degrees philosophy. Consequently, this programme uses assessment 'for' learning as well as assessment 'of' learning (Gibb 1993, 2011) with a clear view to ensure inclusivity. Figure 1 demonstrates the mixture of assessments types used on the Programme.

Figure 1: Distribution of Assessment Type Across the Programme



This programme does not use examinations as an assessment type as this was highlighted in a number of papers, such as Pittaway and Edwards (2012) and Carey and Matlay (2010) that it may not be conducive to an academic environment where students are trying to develop original ideas, articulate these and have them assessed, especially when considering the implementation of constructive alignment. Through their removal the authors feel that they have moved a step closer to our pedagogical ambition of developing a more coherently aligned (Biggs 2003) learning environment which, more closely mirrors the realities of entrepreneurial endeavours. This was achieved by supporting entrepreneurial learning activities that are appropriate to the students context and

educational needs and adapting those which are not. For example, prior to the VCP all of the Law and Accounting modules accredited for use in the Business School used exams as the main assessment type as it was an external requirement and, therefore, careful selection of and/or re-purposing of the modules was needed to ensure they aligned to the programmes philosophy and design.

This required the design of the assessment which was based on the student's own business and not simply a case study example. The assessments then became fundamental to the development of the student's venture as they provided staged points by which the student's own development and understanding was evaluated.

#### **6.0. Analysis**

This analysis of an early stage evaluation of a programme is using the methodology proposed by Kirkpatrick focusing on level 1 and level 2 of the evaluation framework. To accomplish this the authors took materials gathered and their own reflections (diaries, journals etc.), student assessment data, student's reflection journal and added to this with feedback from the students, colleagues and the external examiner. This process led them to identify three groups of reflective data which emerged as the data was collated:

- 1. Positive Reflections reflections where content and experience was generally positive;
- 2. Neutral Reflections reflections where content and experience were mixed; and
- 3. Negative Reflections reflections where content and experience were generally negative.

From these three groups six elements began to coalesce, these were presented as key learning moments (Rae 2012) using the commonly experienced events which have been encountered within the entrepreneurship learning in the first year of the degree. These addressed important concerns, challenges, achievements and realisations which have affected the programme and will have a distinct impact on its future form and direction (Table 3) when the level 3 and 4 analysis is conducted.

**Table 3: Key Pedagogical Reflections** 

	Positive	Neutral	Negative
Curriculum	Programme Structure		
<b>Teaching Methods</b>		Virtual Learning Spaces	Student Engagement
Learning Environment	Degree Community		Learning Communities
Assessment Procedure		Reflective Practice	

These six key pedagogical elements will now be discussed in more detail, below.

#### **6.1 Programme Structure**

When the authors compared VCP's across the world (Lackéus, Williams-Middleton and Lundqvist 2018) there seemed to be an accepted balance between the time spent in the classroom and the time spent focusing on the learner's venture. Therefore 50% of the module credits were from work-based learning and 50% from academic study and scholarly activities, aligning the teaching methods to the curriculum. This created a clear narrative focusing the student to work in and on their business, developing the core philosophies of the programme throughout.

The taught element was scheduled on the same day each week (Wednesday for first years), so that students could maximise the time spent on their business while also having dedicated space to study and develop their other skills. Tuesday's were set aside to support work-based learning, which included webinars, business clinics and mentoring sessions. Friday were used for trading exercises. The

students like this arrangement and most attended Tuesday and Wednesday throughout the year. Those that did not attend the 1 Tuesday's gained support via webinars and telephone mentoring.

To deliver the range of teaching methods the course required a programme team who could facilitate the learning environment and understand the alignment required for successful implementation within a VCP. The team was made up of one programme leader, one enterprise manager and six part-time staff. All of whom had entrepreneurship experience starting and running businesses and, therefore, are academic entrepreneurs (De Silva 2016). The part time members were also practicing entrepreneurs who were 8 portfolio working with a proven academic teaching background. The diversity of their backgrounds and current experience encouraged the students to develop greater empathy and respect with the teaching team from the offset. This supported the interactions with the wider degree community and roles models for the reflective practice.

Setting out a clear structure, timetable and expectations from the start provided a set of assumptions which the students understood 14 and also appreciated. This generated positive feedback on open days and through the 1-2-1 academic tutoring sessions where 15 students discussed planning their time and business meetings. This 'learning agreement' was seen as one of the core successes 16 between the student and programme as it provides a basis for understanding and development (both student and programme) from which both parties can move forward with over the three years.

In summary, to ensure the VCP structure had constructive alignment and fulfilled the goals of a VCP, the curriculum was designed around the starting and growth stages of a business, the teaching uses a mixture of professional entrepreneurs and educators, the 22 innovative learning environment is based around the physical spaces and the strong interactions between the local entrepreneurial 23 business community.

#### **Pedagogical Implications**

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- Setting student expectations from the start (recruitment) provides students with a known schedule and business like interactions: and
- Developing a personal learning agreement which ensure students balance learning, their business and personal life ensures that students receive the attention they require and understand the academic development time they must manage.

### 35 **6.2** The Degree Community

Moore (2012) suggested that education may be as much about social engineering as about personal empowerment. This within an action-based entrepreneurship education programme means that we need integrate the programme pedagogy with the local entrepreneurial ecosystem to encourage the development of a social community around the programme.

42 Initially, we developed the Worcestershire entrepreneurship ecosystem map and shared this with stakeholders, this promoted awareness of what was happening throughout the region while simultaneously promoting our programme. Every one of the 200 organisations on this map we had a working relationship with. The map used the structure and findings from the Babson entrepreneurship ecosystem project research (Fetters Greene and Rice 2010; Isenberg 2010; Isenberg 2011) to develop the entrepreneurial capacity in defined localities; bringing together the policies, structures, programs and climate that foster entrepreneurship. This tool is used in a number of ways:

- Mentoring Sessions The map was provided to all mentors so they could provide a consistent narrative and discussion on the available entrepreneurial ecosystem support and also discuss openly what was available with the mentee; and
- Business Clinics When discussing any one aspect of support which is being supplied, we can first show the entire ecosystem before drilling down into the details of one aspect. This ensures that the students gain an understanding of the whole.

Mentoring is an important element within the portfolio of pedagogy constructs within the programme. Mentoring has been shown (St-Jean and Audet 2012) to develop cognitive and affective learning as well as provide additional experience and competency for the novice entrepreneur. The development of the affective or emotional areas supports their development of self-awareness

(Bacigalupo, Kampylis, Punie and Van den Brande 2016) and entrepreneurial self-efficacy (Chen, Greene and Crick 1998) which 1 have been shown to be key factors in developing high performance entrepreneurs. To support this, positions were advertised for <sup>2</sup> volunteer Entrepreneurs in Residence (EiR) to provide support to the programme, the team and we received 7 applications. Each was assessed using a practical interview process which consisted of a networking event with staff and current students who were starting a business. The criteria used was from Bushardt, Moore and Debnath (1982) which states (1) that person can help you, (2) he or she has your confidence, (3) you can help that person, and (4) he or she has a successful track record of mentorship. Students and staff were asked to provide feedback based on these criteria. This event proved very successful and we decided to take all those that applied, the only issue being there was a limited diversity. At the end of the first year of operations we had 15 EiR's who were from very diverse industries, backgrounds and experience. As a group they had a broad and varied network which supports the introduction to almost all businesses within the county and these contacts have benefited the students.

These individuals' mentored the students, provided weekly business clinics and a Q&A forum service. All students were offered at 14 least one mentor to support their personal growth, one mentor (Megginson 2006) to support the developmental stage of their business 15 and, another to provide local support relating specifically to the industry or physical location of their business. They also have 1-2-16 1 skills development such as telephone cold-calling skills, business process mapping and even gone with students to supplier meetings.

Perhaps, most importantly, these people provided invaluable links between the university and the local business community helping the students to network and integrate. This is evidenced by one student's comments "One of the best things I've got out of this course so far is the amount of access to key people in my industry. The connections I make on a weekly basis through the BA in entrepreneurship course are incredible." The EiR's in the first year of operation invested financial in the Entrepreneurship cohort and also in other University graduates which has also been shown by Schwarzkopf, Lévesque and Maxwell (2010).

The diversity of the students, their ideas and their business requirements cannot be met by one person or a single organisation and 28 its only through this community that educators can provide the ultimate student experience and learning outcomes. It is no longer 29 acceptable to just manage a classroom experience. In Entrepreneurship there is very often conflicting advice and views and it is only through knowledge, mentoring, experimentation and experience that a way can be found for the individual student entrepreneur.

#### **Pedagogical Implications**

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- The development of a cohort of mentors provided numerous benefits as it allowed the education ecosystem to extend from the classroom, to those supporting the students and the wider business community; and
- The development of a simple programme philosophy which can be shared and understood by all stakeholders ensure wider buy in within a greater community.

#### **6.3 Reflective Practice**

The programme assumes that learning is best when it is active, when it incorporates experience and when it can be shared and supported through collaboration. As such, our pedagogy focus is on problem based learning (Hung, Jonassen and Liu 2008), use of authentic assessment and reflective writing (Kakouris 2015; Jack and Anderson 1999; Harvey and Evans 1995) to develop a lifelong learning approach for our entrepreneurial students.

Critical reviews of the assessment strategies used in universities and of reflective practice in general (Elton and Johnston 2002; Findlay 2008; Palomba and Banta 1999) assert that reflection and reflective practice are lacking in the development of a large 52 number of students but that this can be difficult to encourage as it requires the development (on the students part) of a broad range of skills and faculties to enable them to engage with the process effectively.

This use of reflective journals in the development of professional best practice, especially in the disciplines of Nursing and Education 57 has been embedded within the curriculum for many years, as it encourages students to integrate theory with practice, appreciate the 58 world on their own behalf, and turn every experience into a new potential learning experience (Wong, Kember, Chung and Yan 59 1995).

With that in mind it was decided that a reflective journal would be used in the two work-based learning modules each of the three 1 years. To support this, reflective writing sessions were also added to several modules, even those which occurred relatively early in 2 the students learning journey in an attempt to maximise their exposure and normalise the experience. Eventually, these were linked these together using the VLE's journal entry subsite using additional material and videos to create an information hub from which students could draw support, advice, and guidance.

Based on this work, a number of students began to adopt the habits of a reflective practitioner early in the programme and developed 8 a useful weekly reflective journal which, they felt, supported their entrepreneurial development. These students were getting feedback from four members of staff on a regular basis and, in their writing, acknowledged the benefits that reflexivity had on their learning and also on the development of their businesses.

However, there were a group of students for whom reflection did not come so naturally and further development was required. This, in itself, is a 'reflection' on the nature of reflective practice; it is a lifelong process and an experiential one (Kolb and Kolb, 2005) 15 through which individuals are developing and redeveloping learning. No one student approaches it from the same starting point and most require different levels of support to achieve something meaningful. This means that even with support de-engagement can be difficult to avoid, in this context it was apparent through poor quality reflections and, a lack of development in some members of the student population.

21 After speaking to the affected students about the reasons they did not fully engage with the reflective processes we identified several 22 issues. The first was about being judged, both personally and professionally, something which they at times found difficult to accept. 23 The second was that the student's personal lives could take priority over both academic and business development and, they found this difficult to share this as they believed it will affect their marks adversely to admit difficulties. At the core of both of these points was a powerful realisation for the course team, some students didn't engage fully with reflective writing because they simply found it difficult to be 'right' and present a positive image of themselves and their endeavours rather than doing, what they felt, was dwelling on then negatives.

With this in mind the team planned to add mid module review sessions both in-class and, individually during personal tutoring sessions. These discussions would have been directed toward how reflective practice can support the students learning and ultimately their effectiveness (QAA 2012, 2018) as an entrepreneur but only as part of an honest and forthright process.

Recognising that business school staff were not good at developing reflective practice, we intended to use a professional reflective and reflexive facilitator (from a different subject area such as Nursing or Education) who would organise regular individual and group sessions and more informal review sessions where students would have discussed reflective issues and investigated different ways of approaching their reflective practice.

#### **Pedagogical Implications**

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- Reflective practice is a critical part of the development of a practitioner and as such should be an integral part of the assessment and development of the entrepreneur. However, its integration requires insight from other disciplines in which reflection is common practice; and
- A clear process of support and reflective development is required to ensure the development of a successful reflective practitioner.

#### **6.4 Virtual Learning Spaces**

Beetham and Sharpe (2013) state that digital technology is 'Like previous innovations, they can be assimilated to pedagogical practice without altering the fundamental truths about how people learn.' The amount of content which is available in digital form has increase and the ability for students to access this on multiple devices ensure numerous learning opportunities both within and outside the classroom.

It was therefore decided that a key element of the degree is the use of virtual learning spaces such as the university's VLE 1 (Blackboard) to host material including pre-recorded lectures, sessional activities, reading and extensions tasks. The idea behind 2 this was to allow for 'flipped' (Sams and Bergmann 2013) approach to learning through both online and in class delivery maximising the one day that students had on campus by extending the learning environment beyond this physical limitation allowing for more delivery via video or audio, for example.

To facilitate this, early in the degree design process, formats for delivery were created and circulated, VLE areas were established 8 and best practice was shared between staff. However, while some lecturers championed the format some resisted this because of time, comfort or technical skills. This immediately sent mixed messages to the students as delivery and experience was not consistent. As a result, some disengaged with the process at this stage and, only re-engaged sporadically or when forced to for assignments meaning that key elements of the 'flipped' programmes had to be re-calibrated at the last minute to ensure that students who were not engaging online didn't miss any delivery. This in turn led to repetition and also frustration for the students who as 'early adopters' had engaged fully with the online experience.

16 Having spoken to staff and students it became clear that students saw the VLE as a positive but, the mixed delivery methods were confusing and staff saw it as too time consuming even given the formatting help and support that was provided to them. However, the first year of a module has considerable amount of development and subsequent years have less.

21 To mitigate this risk the team intended to provide a video introduction for the students on how to use the VLE within the programme 22 homepage and additional support during the sessions throughout the year. Also, there were intentions to experiment with a 'flipped light' version of the delivery process to create a lower bar for staff to achieve while retaining a consistent approach across the teaching team, this will be more of a blended approach allowing staff with the skills to do more and staff who find it difficult to be supported and, take other routes to achieving an engaging product. The use of the VLE, learning technologists, video creation support and peer educator support through the programme delivery team was an important development for the programme, which has been used subsequently during the planning of the Covid-19 response. The key to this will be that it is clear to the students how each module will approach the issue and that this will remain consistent across the delivery of that module.

Based on student feedback it was also decided to deliver one of the first modules in the programme via a portfolio assessment based solely within the VLE. Everyone hoped that this would ensure that the students engaged within the VLE more fully during the crucial early part of the degree. To achieve this, we had planned a structure which means that the students will be fulfilling regular tasks toward their assignment promoting engagement, familiarity and development within the structure.

#### **Pedagogical Implications**

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- The professional development of the teaching team so as to provide a consistent pedagogy approach within the VLE; and
- A dedicated session to introduce the VLE and the benefits of using it for students.

#### **6.5 Learning Communities**

47 A learning community has been defined as 'an intentionally developed community that exists to promote and maximize the 48 individual and shared learning of its members (Beck and Foster 1999). They provide an ongoing interaction, relationship, and collaboration among the community's members as they work towards a specified common learning goals' (Lenning, Hill, Saunders, Solan and Stokes 2013, p. 7). Learning communities offer learning of an interactive nature and targeted to develop multiple social dimensions, such as employability, general enterprise awareness, intrapreneurship and venture creation, all of which are becoming a major metric within today's UK education environment.

55 The team based project module began in the first year induction week so that insurance and other logistics could be resolved before 56 the teams moved forward. Students were provided with a module manual which detailed the structure of the module including the standard module information plus additional information such as company structure, insurance requirements, locations, programme timings, team processes and contact details. However, the module itself didn't start until late October, a month or so later. The delay had been designed to allow the student to gain some theoretical knowledge from the venture creation module which it was felt might

support the group work however, because the link between theory and practice wasn't yet clear in the students minds a lot of this 1 work was wasted as they didn't really see how the elements linked together.

This 'gap' in delivery was further compounded by new students joining the programme late and others leaving it within the first few weeks of term all of which meant that the team formation processes were never really completed; this led to a lack of team structure within the groups throughout the module.

8 Additionally, the selection of products to sell on the market stall was left up to the teams. This created problems as the team were newly formed and personalities dictated what got sold and not a logical approach based on customer needs and market demand. Each team purchased stock to sell which never sold and detracted from the core tasks of the module of sales and marketing and led the team into a negative mindset and leadership issues.

14 Finally, the leadership of the groups moved from one person to another as the module progressed and it was clear that this enabled 15 the team to use the skills to their advantage but also shifted responsibility from one to the next without a clear set of reflections on what went wrong.

It was evident that teamwork and this group based assignment needed further development. Therefore, as part of the wider curriculum review, a research project was developed across all Entrepreneurship modules to evaluate how to improve 21 Entrepreneurship team based modules which consisted of 131 students. The core findings of the research project have led to the 22 following future actions for this team based project modules:

- A lecture session and video was created to introduce the teamwork aspects of the students. Three core aspects will be covered, 1) what makes a good team member 2) what makes a good team and 3) why good teams get good marks;
- A team building activity will be built into the module. Once this is concluded no other members will be allowed to join;
- Team size will be between 2 and 4 people, starting with 4;
- Facebook will be used for internal communications from the start. (The groups which used this were more successful in their grades);
- It is intended to use a similar system as in the Apprentice TV programme, were a limited selection of products will be presented to the teams and they then pitch for and then buy the products using their own money; and
- A monthly formal board meeting in our boardroom whereby the company reports to the shareholders and publishes minutes. These will then form part of the formative assessment. Non-attendance and non-contribution then get reported regularly.

#### **Pedagogical Implications**

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- A more structured implementation of the learning communities provides students with how to be a productive member and what others expect from them; and
- Making the learning community report their actions ensure that all members are engaged and engaged in this action-based education.

#### 47 6.6 Student Engagement

49 Engagement has emerged as a key metric measure (Kahu 2013) of higher education impact over the last decade. It has become a catch-all term most commonly used to describe a compendium of behaviours characterising students who are said to be more involved with their university community than their less engaged peers. Engagement refers to the time, enthusiasm and resources students devote to activities both in and outside the curriculum to enhance learning whilst at university. Therefore the pedagogy 54 design of our programmes requires a range of activities which include lectures, tutorials, online VLE, webinars, personal academic 55 tutoring, team activities, through to mentoring, business clinics and events which align with the needs of the student and also the learning outcomes.

Ahlfeldt, Mehta and Sellnow (2005) found that the level of engagement was typically higher in those classrooms with more Problem Based Learning (PBL) and that engagement increases as programme level increases. As a result it was expected that, as the

programme was targeted to encourage learning 'for entrepreneurship' (a PBL approach) it would have a better result but, because 1 there had only been a completed a first year, this might be balanced by students 'finding their feet' and not yet fully engaging.

It was expected that truly entrepreneurial students will be hard to keep in a classroom and, as a result that we might find it more difficult to foster a learning community. However we did not anticipate:

- One student in week three gains a contract for £18,000 which meant they were away in South East Asia for over one month;
- Two students had childcare issues for over one month which were the result of student loans being delayed;
- One student had to go and manage their father's estate after being incapacitated, so they left for another month; and
- One student was diagnosed with diabetes and learning difficulties and had over one month off dealing with these issues.

Student engagement is not a static metric and nor is it a single entity which can be easily quantified. The level of engagement 14 changes on a weekly basis and student engagement is physically, mentally and also virtually. Therefore, student engagement has to 15 be measured and evaluated continuously to gain feedback and develop an ongoing understanding of the situation. The tools used 16 included virtual learning environment, surveys session sign in sheets, class appraisals, posit-it feedback, module evaluation, personal academic tutoring and programme meetings.

As in many programmes there was a direct correlation between those attending classes and the grades achieved at the end of the 21 year. Extra curricular activities were attended by around 50% of the students on a weekly basis which for some programmes is 22 extremely high but as it is part of a work-based learning programme, it was felt this could be improved.

To develop both higher student engagement and also be able to monitor this in a less intrusive manner:

- The extra-curricular activities had been planned to be added to the reflective journal so that it is part of the assessment, rewarding good behaviour early on in the programme and developing good habits;
- The first year, first semester Mindset module would use a portfolio assessment which will require students to attend each session to be able to complete the portfolio. This would ensure students are active throughout the first semester and engaged in this innovative and thought provoking module; and
- Mentoring sessions would require the completion of form which highlights the tasks the student will complete before the next session. This would be handed in to the Enterprise Manager, uploaded to the VLE and be followed up before the next mentoring session.

#### **Pedagogical Implications**

- The use of extra-curricular and in-curricular activities to provide a reflective portfolio for the student to develop good habits and assessment material; and
- The use of portfolio assessments within the first year first semester provides an opportunity to build a better rapport and learning relationship with the student.

#### 7.0 Conclusions

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48 This paper reviewed the pedagogy used to deliver a 'true' Venture Creation Programme (VCP) at the University of Worcester. This practice-oriented degree, combining the creation of a functioning venture with academic study (Lackéus, Williams-Middleton and Lundqvist 2018). Therefore, the purpose of the paper is to provide a critical overview of the ways in which learning can be facilitated through VCP's and focused on six core aspects of pedagogy: the programme structure, degree community, reflective practice, virtual learning spaces, learning communities and student engagement.

55 The structure is the first stage in developing a constructively aligned programme and this was done by setting the programme definitions, taught schedule, and the use of academic entrepreneurs (Hopkins and Feldman 1989). However, for a successful implementation the alignment of the student's expectations was critical, especially within a VCP that is creating an environment where managed discourse and opportunity development are the norm. This is a two-way accord with the learning agreement ensuring

the commitment from the student. The programme structure must be the stabilising core for all those involved with the VCP, 1 especially the students and the wider business community.

 The aim of this degree community was to provide a seamless ecosystem of support to the students and is essential in building selfefficacy through mentoring and business opportunities through networking. However, this community needs to gain awareness and understanding of the programme and this has to be done through regular communications. In our case we provided a single programme approach which successfully allowed a wide range of stakeholders to engage.

The reflective practice of an entrepreneur is an important aspect for the development of lifelong learning and aligns with our pedagogic focus on problem-based learning. Reflective practice has been widely developed in several other disciplines and, therefore, the authors drew on this to propose the use of multidisciplinary teams to develop the effective entrepreneur reflective practitioner. The majority of the reflection was done within the virtual learning spaces as part of an assessment. The virtual learning spaces provides a considerable opportunity to develop resources for students on a VCP. However, the induction for a student starting 15 to use it and the multidisciplinary staff developing material for it, requires considerable thought and management of initially the students, staff and the technology.

The use of learning communities within a VCP provides a considerable opportunity for students to work in teams for their greater interaction, relationship, and collaboration among the course members. However, this requires a structured implementation, such as induction sessions, regular reporting and team building activities for it to be successfully implemented. Student engagement within a true VCP requires a number of tools to build the attendance habit early on, such portfolio assessment within the first semester first year. The development of extra-curricular and in-curricular activities throughout the years provides additional incentives to attend and also engage, providing advantages in terms of education attainment and venture creation.

In summary, this paper provides an important insight to the broader ongoing discussion surrounding the development of experiential entrepreneurial education programmes, especially contributing to the development approach of new true VCP and the critical issues around their design. The paper also focuses on how ensuring constructive alignment is a strategic aspect of the pedagogy design for the success of a VCP and its students.

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