THE STRATEGIC PROCESS OF DEVELOPING SOCIAL ASPECTS OF SUSTAINABILITY THROUGH THE VISION REFLECTION IN BUSINESS EDUCATION

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Abstract. Empowering students in the higher education environment as a challenging pedagogical trend represents one of the key social aspects of sustainability. In this article we discuss the students’ visions, their future development preferences and focus on the study and further achievements of the business students by analyzing the content of students’ self-reflected dialogues. The traditional pedagogical approach is upgraded through the introduction of the conceptual model – The strategic process of developing social aspects of sustainability through business education. It emphasizes vision development, gender issues awareness, work-life balance, widening horizons and nurturing proactiveness, and aims to highlight the importance of attitude-related content besides knowledge-related content. We advise the pedagogues to encourage personal development of their students in order to be able to identify different developmental types and individualize the study process, accordingly. The paper also provides practical implications for the incorporation into the syllabuses of the business school programs. Based on the analysis of up-to-date affective tutoring systems, authors’ long-term experience and in order to determine most efficient versions of business education the Affective Tutoring System for Business Education (ARTSY) was developed.

Keywords: students’ visions, social aspects, sustainability, reflection, empowerment, pedagogical approach.

JEL Classification: A22, I30, M10, M14.

Introduction

The capacity of higher education has doubled over the past twenty years. Those entering the system now and in the future will have very diverse learning needs. Higher education will need to develop and provide flexible opportunities for larger and more diverse student cohorts (Hunt, 2011; Dalati & Al Hamwi, 2016; Raudeliūnienė, Stadnik, & Kindarytė, 2016;
Empowering students in the higher education environment as a challenging pedagogical trend represents one of the key social aspects of sustainability. In this article we discuss the vision, development preferences and focus on further achievements of business students. Our research questions are twofold, namely: “What kind of personal visions do business students have?” and secondly, “How can pedagogues facilitate the vision development and implementation process in the higher education setting?” The traditional pedagogical approach has been upgraded through the use of proactive study exercises, where the emphasis was placed on the self-reflected dialogue. Qualitative method based on the narrative analysis was used to answer the research questions.

The task of educators is to facilitate the achievement of diverse visions in order to specify social aspects of sustainability (Epstein & Roy, 2003; Volchik & Maslyukova, 2017; Alekseeva, 2016; Oganisjana & Surikova, 2015; Tvaronavičienė & Černevičiūtė, 2015; Branten & Purju, 2015; Dobrovolskienė, Tvaronavičienė, & Tamošiūnienė, 2017).

The paper presents the possibility of realization of such educational process by introducing the conceptual model – The strategic process of developing social aspects of sustainability through business education. The article also shows good practices of promoting students’ creativity, achievements of equal opportunities between the sexes, as well as methods of reflection, building personality, learning about current challenges in local and global business environment, developing independent research skills (Carroll, Levy, & Richmond, 2008) and linking theory with practice in order to upgrade the massive standardized lectures.

1. Theoretical overview

The strategic management process facilitates gap identification among current and desired sustainable future states (Hill & Jones, 2007). Positive affects in terms of readiness for change and progress require vision to be effectively transferred (Kantabutra, 2010; Haque, TitiAmayah, & Liu, 2016), meanwhile collective vision also advances service job satisfaction and efforts (Testa, 1999). Due to the fact that leaders are responsible for creating and communicating organizational vision (Nanus 1992, in Almog-Bareket, 2012), personal vision is a source for developing organizational vision (Crossan et al., 2008, in Yoeli & Berkovich, 2010). An individual’s enthusiasm, commitment and vision creating skills are required to implement change (Atkinson, 1999), consequently business students need to have vision crafting knowledge and skills required. Reflection of own vision in educational setting brings two types of benefits for students, firstly they make their personal visions explicit; and secondly, they practice vision crafting skills that business students will need in their professional career.
Sustainable development programs reach their potential if they are designed as a leadership identity-building environment. They need to improve individual’s leadership perception, understanding of the setting in which one is active and define leadership as responsible behavior in the society (Petriglieri, 2012).

DeRue and Wellman (2009) found that the main development tools of leaders are their gained experiences and feedback that was received in the dialogue with the stakeholders. Experience is not an automatic learning, and business schools need to help in maintaining the personal responsibility of individuals for their own development and raising motivation and ability to learn from experience (DeRue & Ashford, 2010). McCall (2010) claims that experiences are at the center of leadership development. Developing sustainable leadership does not neglect the development at an early stage. Most of the research is focused on the development of leadership development techniques in adulthood (Murphy & Johnson, 2011).

Term vision derives from Latin and stands for »to see« (Almog-Bareket, 2012). Vision shows direction, articulates a sense of purpose, clarifies a set of ideals, as well as defines uniqueness (Berson, Shamir, Avolio, & Popper, 2001). Vision statements should be ambitious, yet achievable (Hill & Jones, 2007) in order to motivate people and stimulate change. Vision creation process has several steps (Levin 2000): becoming informed; visiting the future and record it; creating the story and vision deployment. With no vision, we only react to outer stimulus and it cannot be successful on the long run (Miles, Snow, Meyer, & Coleman, 1978). Strategic vision is build of two parts (Boal & Hooijberg, 2000): cognitive, focusing on outputs for its accomplishment and affective, drawing on individual’s beliefs and values that influence inspiration. Key characteristics of vision are clarity, abstractness, brevity, future orientation, challenge, stability, and desirability (Kantabutra, 2010; Haque et al., 2016). According to Levin (2000), good vision is bold, and passionate, as well as full of experience and knowledge.

Dialogical pedagogy (Collinson, 2005) can represent improvement of sustainable leadership development (Grooms & Reid-Martinez, 2011; Gurr, 2007; Hargreaves, 2007; Peterlin, Dimovski, Uhan, & Penger, 2015). Students are invited to interact with co-students through appreciative inquiry methodology (Barrett & Fry, 2008) and gather data in the management field with the contemporary local managers in their surroundings which offers them first-hand sustainable experience (Avery & Bergsteiner, 2011) of management practice supported with textbook and lectures. Berkovich (2014) suggests the following components of dialogical pedagogy: self-exposure, open mindedness, empathy, care, respect, critical thinking, contact, and mutuality. Ungaretti, Thompson, Miller, and Peterson (2015) claim that problem-based learning is a needed approach to management education focused on skills development, therefore we designed our home works where students can actively practice managerial skills while gathering data and answering questions.

We can approach developing reflexivity through reflection (Boyce, Zaccaro, & Wisecarver Zazanis, 2010) in several phases (Hibbert, 2012): (1) Prepare for reflection and make space for it in the curriculum; (2) Use critical dialogue to engage with diversity and foreground power; (3) Unsettle comfortable viewpoints/familiar concepts; and (4) Develop new perspectives through ideological exploration and “sociological imagination”.

Students take charge of their interest and can choose topics from the textbook that are most interesting to them. They can also help themselves with modern IT technology.
Zemlickienė, Mačiulis, and Tvaronavičienė (2017) defined the importance of factors in the commercial potential of technologies with the help of expert research. The lecturers and assistants are available for additional help and guidance to the students. Home works also enable those students who lack in knowledge to prepare themselves with guided assignments, whereas those students who wish to learn and know more can choose more demanding home works among several options offered.

2. Method

To be able to empower the students within the pedagogical process, the teacher should know the students well – their ambitions, development preferences and focus of their further labor achievements that would allow adapting the standardized teaching program to different student preferences. As such, the qualitative approach (Bansal & Corley, 2012; Boeije, 2010; Eriksson & Kovalainen, 2008) to collect the content rich, self-reflective dialogues was chosen as the most appropriate method for collecting the data. With that in mind, students were given an optional assignment to think about, reflect and record their personal visions by answering the following open question: “Personal vision: imagine yourself in 20 years. Record: Who are you? What do you do for a living? Are you a professional, working in local or international environment? Write down what you do, where you live and what are the values that guide you in achieving your goals, when thinking about your life in 20 years.”

The questionnaire was distributed among the students attending the Foundations of management and organization course within the 1st year of their undergraduate study at the at the Professional Degree Programme – Business Administration, the Faculty of Economics University of Ljubljana, Slovenia, and in total in the first phase of research 187 students’ responses were collected. Whereas in the second phase of research, focused on further enlightenment of the second research question, additional 19 students answered open-ended questionnaires in order to gain further insight into the phenomena and triangulate the findings. In both research phases the unit of analysis is student.

Joint content analysis of the provided personal visions was selected as the most appropriate method to analyze the data, in order to qualify qualitative data collected, by understanding its context. The developed narratives embed a socio-cultural context in which the narrator lives, so the purpose of the narrative analysis is to make sense of the narrative and of the socio-cultural context through analyzing qualitative data, with the aim to identify the theoretical formulations and concepts, as part of the interpretation. The content analysis allows recognizing parts of the whole, connected to certain phenomena and its attributes (Penger, 2006). In order to provide an interpretation-free analysis we also ran a Word Frequency Query in NVivo software.

Based on collected inputs and first screening of the data, the following classifications were prepared. Student visions of their career paths were categorized in three main areas; (1) entrepreneur, (2) manager, and (3) specialist. Within the (1) entrepreneur vision, students saw themselves as different types of entrepreneurs: (1.1) internal entrepreneurs in term of working for innovative companies and fulfilling their entrepreneurial drives, (1.2) start-up entrepreneurs, in terms of establishing own start-up, high-tech companies, (1.3) entrepreneurs of classical company (bakery, accounting, and similar), (1.4) entrepreneurs active in arts, sports
or charitable organizations, (1.5) entrepreneurs as franchisers of international companies, or as (1.6) entrepreneurs in terms of inheriting their family/parents organizations. In addition, (2) manager classification was further divided into three categories: (2.1) manager of a Slovenian subsidiary of an international company, (2.2) manager of/in an international company, and (2.3) manager of/in a smaller company. On the other hand, specialist/expert in specific area was not further classified and encompassed the positions within the accounting, clerk, tax authority, banking and other similar fields.

Related to the place of work and living, the following classification was set: (1) planned moving abroad, (2) living in Slovenia, actively involved with international environment (as for example business partners, business trips), (3) possibility to move, and (4) not moving abroad. In addition, also their proactiveness during the study was analyzed, and classified as (1) being proactive, searching for opportunities, (2) collecting practical experiences (e.g. student work, but not necessarily directly related to their vision implementation), (3) being aware they need to be proactive, but no concrete activity was reported, and (4) there was no information regarding their proactiveness provided. Nevertheless, also the information whether students foreseen their families and family lives, as well as work-life balance was observed. In case a student mentioned more career paths or options, it was recorded more times. The qualitative data were quantified, and in case of different opinions on the context, the discussion among the co-authors was made to reach the final consensus. Meanwhile, in the second research phase the in-depth data is presented in the form of proof citations.

3. Findings

Besides providing students with content-related knowledge, pedagogues should also encourage students to develop their personal visions as developed conceptual model (Figure 1) highlights. Conceptual model was inductively build based on collected and analyzed data. We identified 5 stages which we elaborate upon the results gained in research phase 1 and phase 2.

Stage 1 requires pedagogical staff to encourage students to develop their personal visions. The research findings show that students have a diverse and very wide range of visions, as presented in Table 1. In general, students’ visions can be divided into three main groups: entrepreneurs, managers and specialists. Of all representatives who participated in a study, 53.1% of students see themselves as entrepreneurs, 25.6% as managers and 21.3% as specialists. Due to different prerequisites focuses and interests needed, it represents a challenge for a teacher to involve them all into the content due to the standardized teaching process within the business studies, as it prevents customizing and upgrading of targeted individual competences.

Stage 2 requires pedagogical staff to build gender differences awareness. The research further shows, that despite there are more female students compared to their male counterparts in the higher education environment (Eurostat, 2015), as also representative in the first research phase of the study (187 students participated in this study, whereof 39% male and 61% females), female students rarely envision themselves as occupying high-ranking jobs.
The reason might be also that female students express their visions in terms of care and creation of a supportive environment and family; meanwhile their male counterparts do so less often as revealed in research phase 1 and phase 2. Of total students, 54% envisaged their family. However, there is a larger difference between genders; 65.8% of total female representatives saw themselves as having a family, compared to 35.6% of male students representatives, who envisaged their family.

Proof quotes of business students’ visions:

Female student A: “When I set myself a goal, I strive to achieve it. Some time ago I was a very fragile person and I quickly broke, and now I become very strong and this also encourages me to better achieve my goals. In the future the main motivation for me will be my family, for which I will take care of and support.”

Female student B: “I imagine myself in 20 years as a graduated economist who lives and works in London. I would work in a travel agency as director. I would carry out the work and had good relationship with all the employees. After each progress of the agency I would organize a party in order to celebrate well performed job. Before I would marry and build a family, I would travel, enjoy, meet new friends, try out different foods and learn at least one new language. I see myself married with 3 children. Every weekend we would travel somewhere where there is no modern technology.”
Table 1. Variety of visions in percentage per stages

<table>
<thead>
<tr>
<th>Stage 1: Vision development, Stage 2: Gender issues awareness</th>
<th>Females %</th>
<th>Males %</th>
<th>Together %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entrepreneur – internal</td>
<td>0.77</td>
<td>1.23</td>
<td>0.95</td>
</tr>
<tr>
<td>Entrepreneur – start-up</td>
<td>1.54</td>
<td>8.64</td>
<td>4.27</td>
</tr>
<tr>
<td>Entrepreneur – classical company</td>
<td>35.38</td>
<td>39.51</td>
<td>36.97</td>
</tr>
<tr>
<td>Entrepreneur – art, sport, charitable organization</td>
<td>5.38</td>
<td>6.17</td>
<td>5.69</td>
</tr>
<tr>
<td>Entrepreneur – franchisee</td>
<td>1.54</td>
<td>0.00</td>
<td>0.95</td>
</tr>
<tr>
<td>Entrepreneur – family organization</td>
<td>3.85</td>
<td>4.94</td>
<td>4.27</td>
</tr>
<tr>
<td>Manager – Slovenian subsidiary of an international company</td>
<td>5.38</td>
<td>0.00</td>
<td>3.32</td>
</tr>
<tr>
<td>Manager – international company</td>
<td>10.77</td>
<td>17.28</td>
<td>13.27</td>
</tr>
<tr>
<td>Manager – smaller company</td>
<td>9.23</td>
<td>8.64</td>
<td>9.00</td>
</tr>
<tr>
<td>Specialist/expert in specific area</td>
<td>26.15</td>
<td>13.58</td>
<td>21.33</td>
</tr>
<tr>
<td>Total</td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stage 2: Gender issues awareness</th>
<th>Females %</th>
<th>Males %</th>
<th>Together %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family</td>
<td>65.79</td>
<td>35.62</td>
<td>54.01</td>
</tr>
<tr>
<td>Family not mentioned</td>
<td>34.21</td>
<td>64.38</td>
<td>45.99</td>
</tr>
<tr>
<td>Total</td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stage 3: Work-life balance</th>
<th>Females %</th>
<th>Males %</th>
<th>Together %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work-life balance mentioned</td>
<td>23.68</td>
<td>30.14</td>
<td>26.20</td>
</tr>
<tr>
<td>Work-life balance not mentioned</td>
<td>76.32</td>
<td>69.86</td>
<td>73.80</td>
</tr>
<tr>
<td>Total</td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stage 4: Widening horizons: Moving abroad</th>
<th>Females %</th>
<th>Males %</th>
<th>Together %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes, planned</td>
<td>22.22</td>
<td>32.43</td>
<td>26.18</td>
</tr>
<tr>
<td>Living in Slovenia, actively involved with international environment</td>
<td>34.19</td>
<td>36.49</td>
<td>35.08</td>
</tr>
<tr>
<td>Possibility to move</td>
<td>14.53</td>
<td>10.81</td>
<td>13.09</td>
</tr>
<tr>
<td>Not moving abroad</td>
<td>29.06</td>
<td>20.27</td>
<td>25.65</td>
</tr>
<tr>
<td>Total</td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Stage 5: Proactiveness during study</th>
<th>Females %</th>
<th>Males %</th>
<th>Together %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Being proactive, searching for opportunities</td>
<td>7.02</td>
<td>9.46</td>
<td>7.98</td>
</tr>
<tr>
<td>Collecting practical experiences</td>
<td>24.56</td>
<td>29.73</td>
<td>26.60</td>
</tr>
<tr>
<td>Awareness, no actual activity reported</td>
<td>21.05</td>
<td>13.51</td>
<td>18.09</td>
</tr>
<tr>
<td>No information</td>
<td>47.37</td>
<td>47.30</td>
<td>47.34</td>
</tr>
<tr>
<td>Total</td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
</tr>
</tbody>
</table>
Female student C: “At the beginning, I would do all office operations, as at newly established company there would be no additional workers. Later, when the company grows and extends, I would employ other workers and become Head of marketing. The company would be successful in international area, having subsidiaries in developed countries as Germany…”

**Stage 3 requires the attention to be given on work-life balance.** Male participants emphasized more often the work-life balance (23.7% of all female and 30.1% of all male participants, 26.2% in average).

Proof quotes of business students’ visions:

Female student D: “In addition to my career I imagine myself settled with my family. My values will change by then and most important for me will be family and health. I wish that I will have in my daily routine enough free time despite I believe that free time spent with your loved ones is as important as success in the career. I think that I will never move abroad because it is hard for me to adjust to the new environment and I am very attached to family and friends. Even if I would receive good job offers abroad this would would be a pretty tough decision for me. I imagine my life in Ljubljana, or some place in the vicinity of Ljubljana. I want to be surrounded by sensible people and my current friends.”

Female student E: “I see myself in 20 years as a woman in late 30-ies who lives happily with her family. I am a mother of 3 children and a good wife to my husband. We live in a village in a nice house by which fruit trees grow. In addition to caring for the family and household, I run a family business. We are engaged in domestic fruit, vegetables, natural fruit drinks and jams production and selling. In the cultivation and processing of fruits and vegetables my children also help, because this is the best school of life”.

Male student A: “My most important values are family, home and health. I wish to have my family as close as possible to me, because family is the one that will help me build a career and independent life. The biggest motivation for me is my mother, since she is leading a successful company and is showing me the way which I want to walk in the next 20 years and will have to develop it on my own, of course. As my other value is also my family where I want to relax and simplify my life, and not just studying about the company. In doing so, I must not forget about my health of which I need to take care. I will regularly take care of my psycho-physical condition, and I’ll be ready for new challenges. Even in business, it is important to stay in good shape, that you are not overcame by stress and other factors that greatly affect our well-being.”

Male student B: “Practicing sports is important in my life, as I can relax totally. Besides achieving better general well-being by practicing sport, I would also remain in a good condition, as I will be most probably sitting most of the working time. This is also one of the most important things we can do for our health and improved immune system.”

**Stage 4 requires the attention to be given to widening horizons.** Nevertheless, it appears that business students wish to work in the global business environment after completing their studies. Concretely, in average, only 25.7% of participating students do not want to move – 29.1% females and 20.3% males, meanwhile 26.2% representatives plan to move abroad (22.2% females and 32.4% males). On the other hand, 35.1% students plans to live in the local community, but be actively involved within an international environment (business
trips, foreign partners, and similar – 34.2% of all females representatives and 36.5 male representatives. Nevertheless, 13.1% of participating students mentioned a possibility to move (14.5 of all female representatives and 10.8 of all male representatives).

Proof quotes of business students’ visions:

Male student C: “I have very high goals for my life in 20 years to which I would like to come as close as possible. I hope to live in a country, such as Australia, Switzerland, South Korea, the USA, New Zealand ... I hope by then that I will finally move into one of these countries, as there you have in comparison to Slovenia much greater chance of success and promotion. My ideal profession would be to work in the higher management of a successful company or I would have my own business. I would like to lead the company, which is engaged in the distribution of new products that are not present in a particular country, yet. My company would operate in an international environment. By this I mean that I would have a business in at least two countries (eg. USA and Germany).”

Female student F: “In 20 years I see myself as the director of an international company, therefore I would like to work in an international environment. I think I would be successful in this area because languages do not represent a problem for me and I am also communicative and committed to work. As director I would travel around the world to various fairs and learn about other companies and cultures of different countries. If it would be possible I would live somewhere abroad, and there thrive and be successful there.”

Female student G: “I see my life in 20 years as independent, on my own, in my house and with my own family. I wish to create this on my own, with my own effort and own savings that I set aside already today. I have not chosen the exact location, yet. If the economic situation in Slovenia does not improve in the short period of time it is my intention to leave the country and to find a job, start my family and home, abroad. My dream country is namely Spain, because I very much like the state itself, and I love the Spanish language so that I can imagine myself there. If, however, I remain in Slovenia, I would probably move to the suburbs of Ljubljana or Domzale. I would live somewhere on the edge of town, surrounded by nature...”

Stage 5 focuses on nurturing the pro-activeness. The results further show, that 8% of students have been proactive during their studies, and are searching for opportunities, actively. 26.6% of all representatives collected practical experiences (not necessarily related to their vision), and additional 18.1% is aware that they need to be proactive, yet they report nothing about actual actions taken. 47.3% of participating students reports nothing on pro-activeness during their study (see Table 1).

In order to gain further insight how pedagogues could help their students in becoming more proactive and implementing their visions we provide proof quotations of students’ reflections. Students expressed that professors could help them in vision realization in the following ways:

“Professors need to love the field they are teaching so that they can attract students, meanwhile we need to have the desire for learning. If there is no desire, professor can do nothing.” (Female student H)

“Directing, showing different possibilities.” (Female student I)
“I believe it is great to expose us and give us options to collaborate.” (Female student J)

“More interactive learning, discussions during lectures on current topics that are happening in the world.” (Male student D)

“Maybe it would be useful to lecture in a way to build foundation for independent study and give us the contacts of persons from practice on which we can turn to if we want work with someone concretely.” (Male student E)

“Life-stories of good and bad experiences – learning from other people’s mistakes” (Male student F)

“More practical examples.” (Male student G)

“More collaboration on the part of students, sharing of students’ experiences.” (Male student H)

“Giving up to date content and practical examples.” (Male student I)

“Providing more personal experiences, knowledge, directions and advices.” (Male student J)

“Presenting wrong and failed projects, decisions, wider perspective why it happened.” (Male student K)

“Implement brainstorming of similar thinking students and help them to realize their goals. As much practice as possible.” (Male student L)

Overall, the research findings of the used pedagogical approach show: (1) Students have a diverse and wide range of visions, which represents a challenge for the teacher due to the standardization of the teaching process, preventing customization and upgrade of targeted individual competencies; (2) Despite the increase in the number of female representatives in the higher education environment, they rarely see themselves as occupying more responsible business roles in the international environment compared to male representatives; Research has shown that female students express their visions in terms of care and creation of a supportive environment and family more often than male representatives; (3) Majority of students expressed their wish to be integrated into the international business environment.; (4) Among different professional paths it seems that entrepreneurship is the most popular in terms of establishing their own classical company; (5) Student express the need for professors to demonstrate personal approach to managing, that is sharing of their practical experiences, networks and advices in overcoming obstacles in entering professional community.

4. Affective tutoring system for business education

The European Commission (2011) stresses a strong need for flexible, innovative learning approaches and delivery methods. As the European Commission (2011) reports, one key way to achieve this is to exploit the transformational benefits of ICTs and other new technologies, in line with the EU Digital Agenda, to enrich teaching, improve learning experiences and support personalised learning. Member States and higher education institutions that conform to the European Commission (2011) should better exploit the potential of ICTs to enable more effective and personalised learning experiences, and teaching and research methods (e.g., e-Learning and blended learning) and increase the use of virtual learning platforms.
Conforming to European Commission (2013) involves new trends in digital education, and the emergence of massive open online courses should be an incentive for higher education institutions to rethink their cost structures and possibly also their missions and engage in worldwide partnerships to increase the quality of content and of the learning experience through blended learning.

Blended instruction has been more effective in recent experimental and quasi-experimental studies contrasting blends of online and face-to-face instruction with conventional face-to-face classes. These have provided a rationale for the effort required to design and implement blended approaches. The online and classroom conditions in many of these studies showing an advantage for blended learning differed in terms of time spent, curriculum and pedagogy. At the same time, one should note that online learning is much more conducive to the expansion of learning time than is face-to-face instruction (U.S. Dept. of Education, 2010). The main advantage of blended learning is the opportunity for instructors to make use of the features unique to each delivery environment that optimizes learning (Clark, 2012).

Blended learning allows teachers to improve efficiency in the classroom. Blended learning is able to personalize education. When teachers stand in front of a sea of desks and educate students about a new concept, kids of varying academic skill levels are not able to take extra time or work ahead as they may need. Blended learning allows students to work at their own pace, making sure they fully understand new concepts before moving on. Rather than playing to the lowest common denominator – as they would in a traditional classroom – teachers can now streamline their instruction to help all students reach their full potential (DreamBox, 2013).

Software used with blended learning programs is able to collect student data that measures academic progress. In this way, teachers can clearly see the areas in which each individual student is excelling, and where he or she may need a little more guidance, and act accordingly. It is one of the most rational possibilities for massive personalized education (DreamBox, 2013).

As per the opinion of Chen (2014), the ongoing boom in online learning opportunities has been a great benefit for many gifted youth (different in their abilities, interests, and needs), because the offerings can cater to a student's ability rather than age. Gifted students may get bored and cranky when they easily grasp lessons ahead of the group in a standard classroom. As a result, gifted students and their parents often must cobble together their own individual education plan from various sources to obtain a deeper, more advanced intellectual dive than what standard school systems can provide. Therefore the Stanford Online High School's philosophy is to place students into courses by their ability, not age or grade level (Chen, 2014).

According to Daly (2009), Intelligent Tutoring Systems are blended learning solutions, not seeking to replace the teacher but to aid the teacher both in and out of the classroom and function as an aid in the delivery of the curriculum.

Development of affective tutoring systems has started recently. Descriptions of several of them appear below. Conforming to Amelsvoort, Joosten, Krahmer, and Postma (2013), systems that consider emotions are called Affective Tutoring Systems. The concept of ATS involves both collecting the emotion, which has an affective time from seconds to three
minutes, and collecting the mood, which may last from minutes to days or weeks (Moga, Antonya, & Boboc, 2014). Currently numerous affective tutoring systems apply multi-modal approaches for identifying learner emotions.

Recently, there is a tendency to move affective computing technologies into intelligent tutoring systems (ITS) (Hernandez, Arroyo-Figueroa, & Sucar, 2007; Hernandez, Sucar, & Arroyo-Figueroa, 2008; Kaklauskas, 2015). This is one of the major directions for improving global ITS. Affective computing systems, which can recognize, interpret, process and simulate human affects, are under development worldwide for including this very purpose. These are starting to serve as foundations for developing affective tutoring systems (ATS). ATS aim to evaluate the body language and physiological parameters of learners by making use of biometric and intelligent technologies and react better to the emotional states of learners on such bases. This is no ordinary process with a singular meaning, because students feel various emotions at the same time.

Therefore, for example, while, ATS analyse a student’s body language and physiological parameters and establishes whether a student is bored or absent-minded, an effective interpretation of the emotional state requires a multi-modal, biometric perspective (as tone, facial expression, eye pupils, and other aspects are under analysis).

![Conceptual model of an affective tutoring system](image-url)

Figure 2. Conceptual model of an affective tutoring system
Researchers worldwide are developing affective tutoring systems that employ only one biometric or affective method. However, hybrid affective tutoring systems (Hogo, 2010; Klašnja-Miličević, Vesin, Ivanović, & Budimac, 2011; Kaklauskas, 2015; Kaklauskas et al., 2010, 2011, 2013, 2015) are also under development aiming to overcome the limitations of unimodal systems. The hybrid method combines two or more biometric or affective methods that model the learners in an integrated way depending on the data, information and knowledge. Hybrid methods exploit the worthy features of diverse biometric or affective methods by spreading them over affective tutoring systems tasks that they can reasonably model. A hybrid affective tutoring system has the advantage of covering a greater number of intelligent systems within its architecture that permit additional elasticity in learner modelling.

Based on the analysis of above research, authors’ long-term experience and in order to determine most efficient versions of business education the Affective Tutoring System for Business Education (ARTSY) consisting of a Smart Database and its management system, Model-base Base and its management system, Knowledge base management system, Equipment subsystem and Context-aware interface was developed (see Figure 2).

Discussion and conclusion

Higher education institutions hold a vast responsibility in transferring and developing social aspects of their everyday pedagogical approaches and therefore one needs to be aware of understanding the impact of the content evaluation by the students. Our aim is to help students in understanding strategic management process, more specifically, vision development and implementation process and at the same time provide a setting for their personal development in terms of grasping their values and wishes for the future. As showcased in the educational settings of leader development, personal vision statements teaching method also contributes to students’ personal growth (Hartman, Allen, & Miguel, 2015). Longitudinal study of Holtschlag and Masuda (2011) demonstrates the articulation of challenging and specific student’s career visions effect positively on their later job satisfaction and lowers their turnover intentions.

“Global business environments and the internationalization of education have positioned management education as a global phenomenon. […] This presents challenges as to how we can best make our programs, pedagogic efforts, and learning environments responsive to multiple cultures given that they are largely imbued with Western or Anglo-American values tied to business schools. We argue that these matters bring into focus the impact of culture on individual beliefs about knowledge and learning behaviors.” (Hardy & Tolhurst, 2014, p. 265).

Vision creation is a part of strategic management that is incorporated in the management education as a course material and skill development. We discuss the importance of intrinsic motivation identification and creative exercise that can stimulate inner research of the students. Our study demonstrates positive effects of the vision creation exercise and several different inspirations and role models for the students’ future paths that we elaborate upon and provide future recommendations for pedagogues. As its main steps it emphasizes vision development, gender issues awareness, work-life balance, widening horizons and nurturing proactiveness, aiming to highlight the importance of attitude-related content besides knowledge-related content.
In addition, word frequency results indicate that students value “work” the most. Students mainly envision themselves working in a “company”. Strongly present in their expressions are also “family”, “people”, “knowledge”, “business”, and “goals”. We can support our results’ interpretation by identifying the most commonly emerging students’ themes, as also terms as “international” and “abroad”, “family” and “children”, “director” or “accounting”, appear often. Yet, it is important to note that it was an open-ended question, and students were able to use their words to describe their visions, therefore for example, they used different terms e.g. manager, leader, director, and consequently, the word query did not reveal specific theme as most often used. Similar goes for entrepreneurship, as more often naming themselves in the future as entrepreneurs, they explained their visions in terms of having and running own company or used other similar terms.

Our findings show that students welcome homeworks that support their professional and personal development. They have responded well to the vision writing homework and provided rich qualitative data that helps pedagogues improve the teaching process. Next year the course will implement a module where this year students will present the implementation of tactical and operational goals to achieve their stated vision and serve as a role model for the current generation of first year students. Empowerment through being aware that the future starts today is a powerful tool that students understood through the exercise.

Theoretical implications

Vision creation and implementation offer business educators an avenue to gain internal perspective of the concepts taught. Research supports that vision creation represents flexible opportunities for larger and more diverse student cohorts (Hunt, 2011). Our research shows that business students have diversified personal visions for themselves. They see themselves as future entrepreneurs, managers or specialists. In the conceptual model we have identified the five pillars of the leadership identity-building environment in the business education environment through which the pedagogues can facilitate the vision development and implementation process, that are vision development, gender issues awareness, work-life balance, widening horizons and nurturing proactiveness by highlighting the need to improve students and pedagogues perception of personal and professional development.

Due to the fact that most research is focused on the development of leadership development techniques in adulthood (Murphy & Johnson, 2011) our paper offers important value added in terms of providing a conceptual model for developing social aspects of sustainability through the vision reflection in business education. By identifying the gap in the offered theoretical leadership development frameworks for younger generations we have, therefore, provided based on our research the conceptual model that is suitable for the specific developmental environment of business community, especially business students and pedagogues needs. We state that vision creation and implementation is a key element in sustainable leadership development that needs to start in the educational setting. Our research also adds knowledge to the sustainability field as business students’ visions encompass economic, ecological and social dimensions.
Practical implications

Action learning for students represents the main developmental value in terms of practical implications for further students’ personal and professional development. In addition to provide the students with content related knowledge also attitude-related knowledge in terms of self-inspection is offered. We state that attitude-related content besides knowledge-related content needs to be incorporated into the syllabuses of the business school programs in order to improve the pedagogical process based on the researched guidelines and identified 5 stages. Vision creation and implementation has several social aspects. It influences the definition of the student’s role in the wider society, commitment to achieve the set goals and motivate themselves. Our paper also raises awareness among business community on future employees’ characteristics and attitudes. Students gained actual experiences of the strategic management process through vision creating steps and applied it to their own personal setting, by analyzing their present environment and foreseeing their future wishes. The authors experienced that this made students gain responsibility for their actions and see the connections between their today’s thinking and actions and their consequences, therefore making them more proactive even in the chosen exercise as well as their lives.

In addition, important practical implications are identified for business schools. It was researched that sustainable leadership development needs to be set at an earlier stage, and nurture different student attitudes, not to lose their underdeveloped potential by offering single pedagogical approach. Pedagogues need to find the time to get to know their students’ needs and their potentials and we provide one of the approaches to do so based on developing reflexivity through reflection. Our conceptual model can be used as guiding principles. Results clearly state that students expect from pedagogues a proactive approach towards personal vision development and implementation.

Limitations

There are some research limitations in our study. Limitations of the study are connected to time and size. First, we only handed out personal reflection questionnaires to students at the Faculty of Economics, University of Ljubljana. Second, our research results are limited to Slovenia, however this suggests the possibilities for further research to be expanded internationally based on existing experiences and to be deepened and broadened. Nevertheless, when preparing the NVivo analysis, some meaning might be lost also during the translation process, as students wrote their visions in Slovene language.

References:


