

2016 ASCUE Proceedings

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Porter's Generic Strategies is just one of the many topics covered in the MIS course. While reading literature and research on this topic is important, practical application can help a student understand the concept and why this theory (and others discussed in a course) have practical business implications. In order to reinforce and provide practical application, students can apply their knowledge within a simulated environment.

Simulations in Education

Moratis, Hoff, and Reul (2006) identify two challenges facing management education. These challenges include relevance and development of innovative learning methods for educating students. Furthermore, business schools are criticized on the irrelevance of the management theory being taught as well as the outdated processes used to teach the students (Avramenko, 2012). One way to innovate a classroom is to use a simulation in order to allow students to see the relevance of the material in which they are learning throughout the course. This hands-on approach, as noted by Draijer and Schenk (2004), "motivates students and supports their understanding of business processes" (p. 265).

A benefit of using simulated environments in the classroom is that it encourages students to critically think through situations that may not have a simple solution. Springer and Borthick (2004) in their research discuss how students "need opportunities to learn to solve problems by constructing their own representation of the situation and creating their own understandings of what it means to develop and present acceptable solutions" (p. 278). In particular, the use of simulations could cause a developmental shift from knowing to thinking in a course by shifting from structured problems at the end of a chapter to unstructured scenarios that may generate interest in the concepts being discussed. Avramenko (2012) also argues that business simulation software should be utilized for decision making.

Avramenko (2012) also denotes other benefits of computer-based business simulations. These benefits include risk-free environments, simplified real world scenarios, learning by comparison, and time management. In addition, Tanner, Stewart, Totaro, and Hargave (2012) discuss the benefits perceived by students as engaging, useful, effective learning tools, and effective in promoting teamwork.

A study conducted by Walters, Coalter, and Rasheed (1999) set out to determine if simulation games are an effective tool in business policy courses. The conclusion, determined from the research, showed that simulations are an effective tool in a classroom and allowed students in a business policy course to implement strategic concepts with some degree of realism. Furthermore, the study noted that "business games and simulations appear to be an effective pedagogical tool at the undergraduate level" (p. 174). In order to maximize the use of simulations in the classroom, Walters, Coalter, and Rasheed (1999) provide some general guidelines for instructors who will be utilizing simulations within the course. In particular, their research notes that preparation by the student and the evaluation of their preparation is a major factor in performance in the simulation. The literature suggested to conduct random tests throughout the semester in order to determine an individual's awareness of the status of their team and their rivals.

ERPsim

One difficulty related specifically to the MIS course is the instruction of Enterprise Resource Planning. Léger (2006) identifies the lack of Information Technology (IT) experience as one of the major barriers

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- I actually learned a lot in this class. It was the most applicable to the business world because of the simulation competition.
- I think the lab section of this class is very helpful and allows students to grow their knowledge of the SAP system.
- I definitely learned a lot in this class. I think that the three SAP courses offered through the Department of Computing would be hugely helpful for business students also. If I weren't graduating this semester, I would take the other two classes so I could be SAP certified. Very helpful course.
- The labs were the most helpful part of this course. I learned so much through the SAP simulation.
- The aspect of this course that was most effective in helping me learn was the lab simulation each week. I learned more from this section of the course than I have in my four years of college.
- The lab was the most effective. I learn by doing things not just by reading a slide so having the time to put my knowledge into real life was a big help.
- The lab section of this course really helped expand my critical thinking skills.
- Being able to apply what was learned through projects was really helpful in the retention of what I learned during lecture time.
- It was nice to have a lab with this lecture. It broke up just reading about the material.

One of the primary goals of the reinvention of the Management Information Systems course was to breathe life into business concepts by utilizing the business-simulation ERPsim. Through this simulation, students are able to walk away from the course with valuable exposure to the ERP system SAP. In addition, students are able to understand the value of data and enterprise applications. Finally, students can put into practice fundamental business concepts such as Porter's Generic Principles as they operate their muesli manufacturing company.

In future iterations of this course, it is the intended goal to introduce students to concepts around logistics and logistics management using SAP and ERPsim. In addition, introduce students to additional data visualization tools and business analytical tools built on SAP's latest platform, SAP HANA.

very powerful and sophisticated software; however, it is more suitable for high-end data analysis for big corporations.

2. Hadoop. Hadoop is an open source system for processing massive amounts of data (Hall). In order to effectively use Hadoop, the students need to learn a programming language by the name of mapReduce. It is used for large computations and multimedia types of data. Hadoop would be the ideal choice if time is not a constraint. To go through the multiple technologies it encompasses, it requires a time consuming effort. To teach Hadoop effectively probably would require two consecutive classes. The recommendation is to look for a two additional elective classes for Big Data using Hadoop. If the reader wishes to know more about Hadoop, visit this website discussing the top 25 points about Hadoop: <http://www.bigdataeducation.in/top-25-things-about-hadoop/>.
3. R. R is an open source language used for machine learning and mainly used for statistical analysis (Hall). R is a computer language. A full class must be dedicated to it in order to benefit from its strong syntax. R is not the best choice for an introductory class in Data Analytics. The author of this paper has personally experimented with R and found that it requires a steep learning curve.
4. PowerPivot. PowerPivot is a Data Analytics/BI powerful extension to MS Excel. After experimenting with PowerPivot, PowerView (the graphical side of PowerPivot), and Pivot Tables for over three weeks with different file sizes, it was decided this is the right tool to teach in an introductory Data Analytics class. Since the decision was made to use PowerPivot as the main tool, this paper will explore the reasons for making this decision in a separate heading below.

Why PowerPivot?

PowerPivot is added to MS Excel as an add-in feature. We Know that:

1. MS Excel is easily accessible and has been around for many years. The learning curve is minimal for most students. Most universities provide MS Office for free or minimal fee.
2. PowerPivot lets management use their reporting. Most users are familiar with PivotTables already. The combination of these powerful applications will result in a very effective outcome.
3. No special IT resources are needed, including servers or unique software.
4. PowerPivot works with Pivot Tables like magic. "As the name implies, PowerPivot is a PivotTable on steroids. With PowerPivot, you can pull into Excel large amounts of data from multiple database tables, databases or other sources of data, and sort and filter them almost instantly" (Jackson, 2010).
5. There are no limits on the numbers of the rows and column especially if PowerPivot works with an SQL server. Of course there is a limit to how large the number of records is before Excel starts to slow down.
6. PowerPivot allows the integration of multiple entities (tables) in a similar fashion to a traditional relational database. This is a great chance to explore with the students the concept of normalization and how to avoid data anomalies. Relational databases are not going to disappear tomorrow and it is more likely our students will have to handle some database normalization in the real world. PowerPivot requires students to understand how to link different tables based on their relations. Up to this point and, just like

An ASCUE “Cool Tool” Comes Full Circle

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Abstract:

The ASCUE conference is an opportunity to share technology ideas and innovative teaching techniques, but what happens to this information when it is carried back to the classroom? In this presentation, we will discuss the full circle of a technology tool that was demonstrated in one of Janet Hurn’s “Cool Tools” sessions. The session was attended by Tracy Gaskin, the training coordinator from Coastal Carolina University, who decided to demonstrate the tool for CCU faculty as part of a 3-in-30 session called “Tools for Encouraging Student Creativity and Engagement.” The three tools presented in the 30-minute session were Weebly, Glogster and GoAnimate.

My name is David Doerring, and I teach a Management Information Systems course at CCU. I attended one of Ms. Gaskin’s 3-in-30 sessions, in January of 2014. I was looking for a way to let students apply what we were learning about digital marketing. The answer to this need was Weebly. I have now instructed more 500 students on how to use W

Presenters' Bios

David P. Doerring is a lecturer of management and decision sciences in the Wall College of Business at Coastal Carolina University. He currently teaches management information systems and business integration using a simulation. David also brings over 25 years of professional experience.

Tracy Gaskin is the training coordinator in Coastal Carolina University's faculty development center. In addition she teach online biology courses for the University.

Watson Analytics for End Users

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Abstract:

Released a little over one year ago, Watson Analytics from IBM has quickly grown to be one of the most popular analytics software packages. With built-in natural language processing, Watson Analytics provides end users with the ability to do much of their own analytics, including modules for:

- 1) refine – enrich and tune your datasets to discover patterns and get new perspectives on your business;
- 2) explore – ask questions and interact with the results to discover patterns and relationships that impact business;
- 3) predict – find predictive insights hidden in your data. Learn what drives each behavior and outcome;
- 4) assemble – create interactive and engaging dashboards and infographics and tell persuasive stories to share and communicate with others.

In this session, I will demonstrate and discuss how quickly a complete predictive analytics project can be developed with Watson Analytics software. This powerful, free software is utilized at UMUC in the online MSDA program.

Presenter Bio:

A faculty member, Steve develops and teaches graduate courses in data analytics at the University of Maryland University College. He has an extensive background in data analytics, artificial intelligence, emerging technologies, decision support systems, quantitative methods and decision-making.

Microsoft Windows 10 Deployment

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Abstract:

By the time this conference is held, Windows 10 will have been released for 11 months. At Washington and Lee University, we have already started to deploy Windows 10 on select machines and plan to increase that number significantly over the summer. Since most new hardware will require Windows 10, we feel this is an area that we need to move forward with aggressively. This session will focus on how we have prepared for this change, what challenges we've faced, and how we plan to move forward. .

Presenter's Bio:

Tom is a Technology Integration Specialist at Washington and Lee University. He facilitates the use of technology in academic offices, providing end-user support for staff and faculty. In this role, he analyzes workflows and specific job needs for departments and recommends technology solutions.

Changes in Perspective: When Technology Does and Doesn't 'Fit

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Abstract:

This presentation questions assumptions surrounding technology in the classroom. I have long incorporated video assignments and group activities in my mathematics courses; but, as a result of a recent sabbatical investigating how other faculty implement active learning, I have returned to a 'partially' inverted, more traditional classroom. Students may be 'tech savvy' and open to using games, video and interactive assignments; nevertheless, these technologies do not equally shore up higher level learning. In my experience, more complex concepts explored in optimization problems in calculus do not seem to improve via the 'flipped classroom.' It is not that the 'inverted classroom' is inappropriate; rather the issue is to know when individualized intervention is required. Higher level evaluation and analysis skills often demand such individual attention from the instructor without, in many cases, a mediating technology. This presentation will discuss when and whether technology 'fits.'

Presenter's Bio:

Jack Pope is professor of Mathematics & Computer Science department at the University of San Diego. He was Director of Academic Technology Services for 25 years at the university before returning to full time teaching in 2007. He received his PhD from the University of North Carolina at Chapel Hill.

Shaping Bandwidth learning to love Netflix on campus

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Abstract:

Young Harris College is mostly residential. As this is the home for students for the majority of the year, students expect to be allowed to do anything that they could do at home. Netflix, Amazon, Roku, and other streaming services consume bandwidth at an enormous rate. This presentation will cover how Young Harris College addresses these problems with a NetEqualizer. The benefits and cost savings that are received with our approach. Also, there will open discussions about what other problems schools are having with bandwidth and streaming for on campus and residential housing.

Presenter Bio:

Hollis Townsend has been in the Office of Information Technology for Young Harris College since he started the department 21 years ago. In his 35 years in the IT field he has done everything from networking, system administration, and database administration, to phones, security and virtualization.

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