# **Computerised Accounting Software; A Curriculum that Enhances an Accounting Programme**

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Abstract There has been an outcry in commerce and industry about students who fail to perform in the accounting department due to lack of "practical accounting skills". It is from this background that the researchers were motivated to investigate the impact of a Computerised Accounting Software Curriculum that enhances an Accounting Programme. At Botho University a degree in Bsc Hons in Accounting is offered and it is perceived that the graduates of this programme will be all rounded after completing this qualification. The Accounting programme at Botho University includes all the aspects that are needed for a novice accountant. However, the only shortcomings are the inclusion of a Computerised Accounting Software Curriculum into this Accounting Programme. It is believed that higher education students experience problems during their internship semester as they are expected to use Computerised Accounting Software. This study investigates whether the students at Botho University who are enrolled for the Bsc Hons in Accounting Programme face any

accounting software challenges during their internship period. The accounting software that students are expected to have knowledge include: spreadsheets software. quick-books and sage pastel accounting. Focus group and face to face interviews were used to collect data from students enrolled in the Bsc Hons in Accounting at Botho University Gaborone Campus, Maun and Francistown. The study focuses the students who were on the internship period. However the majority of the accounting students faces accounting software challenges and agreed that a Computerised accounting software curriculum should be proposed and implemented at Botho University in the Department of Accounting and Finance. This is done so in order to enhance the Accounting Programme and meets industry and commerce expectations.

**Keywords** Enhances, Curriculum, Spreadsheets, Quick- books and Sage Pastel Accounting



Figure 1. Themes for Bsc Hons in Accounting: Adapted from the researchers

## 1. Introduction

The Faculty of Business and Accounting at Botho University offers a Bsc Hons in Accounting Programme that is very competitive in the region. The first cohort of students was enrolled in the Accounting programme at Botho University in July 2013. Currently the Accounting Programme is being offered in Botswana and Lesotho. This Accounting programme consists of six themes that include: financial accounting, cost and management accounting, taxation, audit and assurance, business environment and practical key skills. The Figure 1 represents a summarized thematic diagram for the Bsc Hons in Accounting Programme at Botho University.

The six themes form the basis of accounting pillars that mould the learners into competitive novice accountants. According to [8] a curriculum should strive to effectively deal with the modern world as this enhances the learners' competitiveness in the employment market. The Accounting programme at Botho links well with [8] philosophy, which includes four instincts such as: social, constructive, expressive and artistic. The themes in Figure 1 are the themes expected of any accounting programme, but the question is does it fit into the modern world? Any experienced accountant would agree with the above accounting themes and what is important is the competiveness of the programme. This paper focuses more on (key skills) theme 4 as this brings about the issues on outcome - based learning. Theme 4 is the backbone of the accounting programme as it reflects the skills that are needed by accountant in order to fit in an accounting environment. Modern employers require accounting graduates who are hands - on and self - starters as they have limited time and resources to invest into training and development [4]. In the context of Bsc Hons in Accounting, it appears that accounting students acquire key skills (theme 4) but the limitation in this theme 4 is learning on how to use the accounting software (packages). This research focuses on the following packages: spreadsheets, quick- books and Sage pastel accounting. The inclusion use of accounting software (packages) as a module is a serious gap in most Accounting Programmes hence it was imperative to investigate the need for computerized accounting curriculum. It was from this background that motivated the researchers to conduct this study.

[10] study report that accounting firms perceive that students with internship experiences and background are given much preference in the employment job market. Furthermore, [10] is of the opinion that there may be related changes in student's beliefs after participating in an internship program and this is a similar perception which was adopted in this study. According to [10] the following are traits that the student is expected to possess after the internship program:

- 1) Personality traits such as being personable or having a positive attitude
- 2) Technical / business traits such as analytical or accounting skills
- 3) Interpersonal skill traits such as communication skills and leadership
- Background / other traits such as Grade Point Average (GPA), work experience and computer skills

This research targeted background / other traits such as GPA, work experience and computer skills since they are a challenge to be achieved by many undergraduate students. For example experience and knowledge of Computerised accounting may be difficult to be attained by undergraduate students since they would be at college. This study perceives these traits as paramount to accounting graduates. Computerised Accounting Packages have many benefits as shown in Table 1.

 Table 1. Benefits for Computerised Accounting (Adapted from the researchers, 2016)

Benefits for Computerised Accounting:					
<ul> <li>Easy to reconcile stock on hand</li> </ul>					
<ul> <li>Easy maintenance of asset registers</li> </ul>					
<ul> <li>Gives a provision for graphs and financial ratios</li> </ul>					
<ul> <li>Provides the business with financial intelligence</li> </ul>					
<ul> <li>Cloud accounting - online accounting (connectivity on smart phones, i-phones and use of internet</li> </ul>					
• Enhances speed for entry processing (e.g. add on module for bank manager)					
• Enhances the rate for employability traits and self-reliance (consultancy)					
<ul> <li>Enhances completeness and ecourateness</li> </ul>					

• Enhances completeness and accurateness

#### 1.1. Commonly Used Accounting Software

#### 1.1.1. Quick Books

Quick Books is accounting software (package) that is used to process accounting transactions [21]. This software provides the user with the following features: chart of accounts, customised invoices, track accounts payable, track accounts receivable, profit and loss statement, balance sheet and manage cash flows. This software may be used by small businesses and medium sized entrepreneurs. The QuickBooks software provides the Quick Payroll Software, which is used in processing employee salaries. For more details about the technical features see [21]. However, the researchers are not licensed with QuickBooks in order to provide the some samples of the package.

#### 1.1.2. Sage Pastel Accounting

Sage Pastel Accounting is accounting software (package) that is used to process accounting transactions [19]. This software has a payroll add on module which is used to process salaries. Sage Pastel Accounting software provides the user with the following features [19]:

*Chart of accounts*: this is a list of all the accounting codes as for example:

Sage Pastel Accounting	Chart of Accounts Pastel requires control accounts to be set up before you can perform basic processing. The Setup Assistant always creates these accounts. Over and above this, you can choose an industry-specific chart of accounts. If there are no charts of accounts which are close to your industry, you can choose the Generic Chart of Accounts option, which creates a basic chart of accounts which you can build on. You can add, delete, or modify these accounts in the EditGeneral Ledger Accounts menu option. Please choose a standard chart of accounts 1000000 - Sales 2100000 - Cost of sales / Purchases 2100000 - Inventory Adjustment 2150000 - Inventory Adjustment 2150000 - Purchase Variance 2200000 - Recovery Account
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## **Process:**

File Edit	Process	View	Change	Setup	Utility	Window	Help
Options	Jour Cas Ban	rnals h Book k Recon	ciliation			to group by Descrip	that column
Tasks	Ove	tomers irdue Cu pliers	istomers In	terest		Tan Odd	
Suppliers Inventory General Led	Inve Mar Cou	ntory Jo nufactur	ournals re ntory				
To Do List	Mat For Jum	tch Oper eign Cur op to An	n Item rency Reva other User	luation			
Overdue     Post Date	Tim	e and Bi	illing				
C Overdue	Rec	eipts			•		

The process feature includes: the journals, cash book, bank reconciliation, customers, overdue customers interest, suppliers, inventory journals, manufacture, count inventory, match open item, time and billing and receipts.

1

## Trial Balance: The trial balance shows comparative figures from last year.

rial Balan ce : 01/01/2	015 to 31/12/2	015	· .	
Last Year	Account		DR	CR
0.00 0.00 0.00	7700/000 8000/000 9000/000 9100/000	Inventory Control - Finished Goods Customer Control Account Supplier Control Account GRN Accrual Account	18,428.64 3,136.00	4,480.00 16,428.64
0.00	9200/000	Nett Profit	144.00	800.00
0.00	_		21,708.64	21,708.64
0.00 0.00 0.00	1000/000 2000/000	Nett Profit Construction Contract Sales Contracting Materials / Cost of Sales	800.00 2,000.00	2,800.00
0.00			2,800.00	2,800.00

## **Income Statement**

INCOME STATEMENT : 01/01/2015 to 31/12/2015	0		
SALES Construction Contract Sales		2,800.00	2,800.00
COST OF SALES Contracting Materials / Cost of Sales		2,000.00	2,000.00
GROSS PROFIT / (LOSS)			800.00
OTHER INCOME			
EXPENSES			
TAX			
DIMDENDS			
NET PROFIT / (LOSS)			800.00

## **Balance Sheet**

7			
BALANCE SHEET as at 31/01/2015		-	
1005 W0			
Non-current Assets			
Current Assets			
Inventory Control - Finished Goods	2,434.32	2,434.32	2,434.32
Total Assets			2,434.32
EQUITY AND LIABILITIES			
Capital and Reserves			
Minority Interest			
Non-current Liabilities			0.00
Current Liabilities			0.00
GRN Accrual Account	2,434.32	2,434.32	2,434.32
Total Equity and Liabilities			2,434.32

## *Cash Movement*: This is for cash flow purposes

Period(s)	December	Total	
8400/000 Main Account - Cash Book 8410/000 Account Name 8420/000 Account Name 8430/000 Account Name 8440/000 Account Name			
TOTAL OPENING BANK BALANCE	0.00	0.00	
CASH RECEIVED Receipts from Customers	0.00	0.00	
TOTAL RECEIPTS	0.00	0.00	
CASH PAID OUT Payments to Suppliers	0.00	0.00	
TOTAL PAYMENTS	0.00	0.00	
NET CASH MOVEMENT	0.00	0.00	
JOURNAL ENTRIES PROCESSED	0.00	0.00	
TOTAL CLOSING BANK BALANCE	0.00	0.00	

*Graphs:* The feature provides with all the graphs that may be needed by the accountant. *With a click of this icon a graph will be produced from the applications.* 



Financial Ratios: with a click of this icon important financial ratios below are generated by the software.

	Jan 15	Feb 15	Mar 15	Apr 15	May 15	Jun 15	Jul 15	Aug 15	Sep 15	Oct 15	Nov 15	Dec 15	Period 13
Acid Test Ratio	0.00	0.00	0.00	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.00
Asset Financing Ratio	0.00	0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.00
Current Ratio	1.00	1.00	1.00	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	0.00
Customers Days Ratio	0.00	0.00	0.00	134.40	168.00	201.60	235.20	268.80	302.40	336.00	369.60	403.20	0.00
Inventory Days Ratio	0.00	0.00	0.00	276.43	276.43	276.43	276.43	276.43	276.43	276.43	276.43	276.43	0.00
Inventory Turnover Ratio	0.00	0.00	0.00	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.00
Profitability Ratio	0.00%	0.00%	0.00%	28.57%	28.57%	28.57%	28.57%	28.57%	28.57%	28.57%	28.57%	28.57%	0.00%
Return on Equity Ratio	0.00%	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%
Solvency Ratio	1.00	1.00	1.00	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	0.00
Supplier Days Ratio	0.00	0.00	0.00	1254.52	1568.15	1881.78	2195.41	2509.04	2822.67	3136.30	3449.93	3763.56	0.00
Acid Test Ratio	(Curre	nt Asset	s - Invent	ory) / Cu	rrent Lia	bilities							
Asset Financing Ratio	Total S	Sharehol	der Inter	est / Tota	Assets	1							
Current Ratio	Currer	nt Assets	s / Curren	t Liabilit	es								
Customers Days Ratio	Accou	nts Rece	eivable x	30 x Per	iod / Sale	es (YTD f	igure)						
Inventory Ratio	Closin	g Invento	ory x 30 /	Cost of S	Sales								
Inventory Turnover Ratio	Cost o	f Sales /	Closing I	nventory	1								
Profitability Ratio	Earnin	gs befor	e Interes	t and Ta	x / Sales								
<b>Return on Equity Ratio</b>	Earnin	gs of Or	dinary Sh	arehold	ers After	Tax / Or	dinary E	quity					
Solvency Ratio	Total A	Assets / 1	Fotal Deb	t									
Supplier Days Ratio	pplier Days Ratio Accounts Payable x 30 x Period / Cost of sales (YTD Figure)												

Actual Budget Variar Profit & Loss TOP 5 EXPENSES YTD 2.800 Cost of Sales 2,000 Gross Profit xpenses ô Dther Income Net Income befy a Actual Buda ¥. Top 5 Expenses YTD YTD Legal Fees Travel ent Paid lepain Main egalFees Actual YTD - Buccar wel - Ove unting Fees TOP 5 CUSTOMERS otor Vehicle - Repairs & Mai 0% **Top 5 Customers** Custom GP YTD er Category GP % × 100.05 ..... Top 5 Item g Pr ity TOP 5 ITEMS YTD 3.136 ity Avg Price Bottom 5 It × 00.05 3.136 100.0%

Business Intelligence Center Dashboard: This shows top and bottom items in the business.

### 1.1.3. Spreadsheets as Complimentary to Sage Pastel Accounting

Sage Pastel Accounting is the application that was ranked highest with participants in [4] study. Spreadsheets are widely used throughout the whole world, either with accountants, engineers and many other professions. In this paper it is seen that most of the reports from Sage Pastel Accounting software automatically convert into spreadsheets reports. When using Sage Pastel Accounting users may import and export figures using spreadsheets. See features above such as graphs, financial ratios and the dashboard which has been imported or exported from Sage Pastel Accounting software.

## 1.2. Statement of the Problem

There has been an outcry in commerce and industry that the graduates for accounting are failing to perform and this cost them a lot of money and time through induction and training. Most of the reasons gathered from commerce and industry are that the accounting students lack the skills and knowledge that are expected of them especially the use of accounting package. It is therefore perceived that the accounting students understand the theory aspects but lack on the following practical areas: problem solving, analytical thinking and application and use of accounting packages (software). It is from this background that motivated the researchers into investigating whether the implementation of accounting software curriculum enhances students' practical technical skills, problem - solving skills and analytical thinking skills that are expected of by commerce and industry.

### 1.3. Aim of the Study

To investigate the perceptions of the students towards the

implementation of Computerised accounting curriculum in order to enhance the accounting programme.

#### 1.4. Objectives of the Study

The objectives of this study are as follows:

- To ascertain students' perceptions towards the implementation of Computerised Accounting curriculum.
- To identify the benefits that accrues from the implementation of Computerised Accounting curriculum.
- To recommend an inclusive curriculum that takes cognisance of problem - solving, analytical thinking and application and use of accounting packages (software).

### 1.5. Research Questions

The following are the research questions for this study:

- What are students' perceptions towards the implementation of Computerised Accounting curriculum?
- What are the benefits that accrue from the implementation of Computerised Accounting curriculum?
- What are the recommendations for an inclusive curriculum that takes cognisance of problem solving, analytical thinking and application and use of accounting packages (software)?

#### 1.6. Contribution to the Knowledge Domain

The significance of this study is that, it would benefit many stakeholders that include: educators in the accounting field, accounting students, universities, colleges and captains of industry. The implementation of an inclusive curriculum that takes cognisance of practical skills will reduce costs of training for prospective employers. Furthermore, the graduates of accounting programme will be hands - on hence may be able to: set - up their own consulting firms and reduce the level of unemployment. If this study is published it would add value to the body of knowledge as it improves and enhances the practical skills for accounting students.

## 2. Literature Review

### 2.1. The Importance of Capstone

According to [12] many universities and colleges offer capstone course in the form of: an individual course, internship, volunteer or out-reach experience, consultation, research project, academic professional partnership or a combination of several experiences. In the context of this study, a capstone is viewed into two aspects as follows: individual course and internship experiences. The students at Botho University are placed on internship during semester 7 after learning all the theory aspects expected of an accounting student. Based on the study conducted by [3] they appear to be a skills gap in Botho University's Accounting Programme, as students are not taught Computerised Accounting Skills. A Computerised Accounting module involves teaching students practical skills which are beyond the classroom. According to [18] modules that teach students practical skills are outcome based. Outcome - based modules enables the learners and the instructors in getting constructive feedback on what the learner can do after the completion of each out - come hence this phenomenon enhances the learners to be hands-on (learning by doing, refer to Figure 2). The philosophy that promotes hands- on learning increases the learners' degree of employability and chances for becoming a self - reliant individual.

#### 2.1.1. Individual Course as a Capstone

This section discusses a capstone as an individual course or module in an Accounting Programme. [1] and [4] concluded that computer skills and accounting software applications must be taught to accountants and additional

course materials should be taught in all accounting courses. The teaching of accounting software applications enhances and enriches education. There are similarities between this study and the study for [4] as follows: This study involves accounting degree students' feedback during their internship and the study for [4] involves accounting students who participated, before and after the internship and the aim for both studies were to determine the importance of practical computer skills to accounting students. The results in [4] study reveals that accounting students, faculty and certified public accountant firm recruiters believe that computer skills. accounting software, databases, email / internet, programming, spreadsheets and word processing were important skills to accounting students. There are many accounting applications and software but this study focuses on Quick Books, Sage Pastel Accounting and Spreadsheets.

#### 2.2. Out-come Based Education (Learning)

Outcome - led curricula are increasingly relevant to modern accounting education as employers prefer accounting graduates who have hands on competencies. According to [12] many universities and colleges offer a capstone course in business or accounting. Outcome - based is a criterion or standard that is used to set against the success of the course and the learners' competencies at the end of the programme [18]. In education reflective practice refers to whereby students reflect on what has been taught during the entire course or programme. Reflection in education is not new as it was used in the studies conducted with many philosophers and educational scholars such as [8]; [5], [6]; [7]; [20]; and [16]. [14] discusses the role of reflection in the experiential learning cycle.

A reflection may be in the capstone module where students are required to reflect their past experiences in the entire programme [12]. According to [12] the structure of the capstone can be as follows; individual course, internship, volunteer, out-reach experience, consultation, research project, academic- professional partnership, or a combination of several experiences. Many studies on capstone courses were written by [13] and [9].

The theoretical framework that informs this study is [14] experiential learning, see Figure 2 below.



Figure 2. Kolb Model of Experiential Learning Process: (Adapted from Baker, Robinson and Kolb, 2012)

The study conducted by [3] concludes that experiential learning builds meta- cognitive skills which may be a goaloriented and assessed. (Experiential learning model see Figure 2) [14] of experiential learning assumes that the lecturers or teachers teach beyond the classroom in order to ensure that the learners are able to apply the concepts that are needed in the real- life situation. This concept of experiential learning may be used in many teaching approaches such as: field work, internships, simulations, vocational training and games [11]. This study focuses on the internship feedback of students who are studying a Bsc Hons in Accounting. It was imperative to investigate the gaps between what is being taught in classes and the actual applications of accounting concepts at the work place on internship students in order to enhance accounting programme at Botho University. In other words this was an evaluation of theme 4 (key skills) offered to accounting students. The following section focuses on the problem statement of this study.

## 3. Research Methodology

A research design is a plan which explains how a research would be conducted [17]. In this study a qualitative approach was used to collect data from the participants. The study used a focus group and face -to- face interviews as methods for collecting data from the students on internship registered in the Bsc Hons in Accounting at Botho University (semester 7, period July 2016 - December 2016. The following is a table that represents the internship population for three campuses (Gaborone, Francistown and

#### Maun).

Table 2. Botho University: Bsc Hons in Accounting - internship schedule

Internship students	FTW	GBE	MAU	Total
Total	52	193	17	262
Percentage %	20%	74%	6%	

### No. of students on Internship per Campus



Graph 1. No. of students on internship per Campus

The focus group of 16 participants was selected from each campus based on the percentages shown in Table 2 above. The calculation for the sample is shown in Table 3 below.

Campus	Percentage - %	Total focus	Calculations	Focus group per Campus
FTW	20%	16	20% x 16	3
GBE	74%	16	74% x 16	12
MAU	6%	16	6% x 16	1
Total		16		16

Table 3. Program version Enrollment: Bsc Hons in Accounting



Graph 2. Focus group selected per campus

A brainstorming was conducted in order to conduct the participants about the focus group workshop. The researchers managed to get the students' consent to participate in this research.

According to [15] and [2] it is important to protect individual's autonomy hence researchers should not coerce any participant to participate in any study. Furthermore in this study the researchers did not divulge any confidential information to third parties without the participants' consent as this would be an infringement of the participants' rights to privacy. Finally names were not used in this study as each participant during the face -to- face interviews were allocated with codes.

# 4. Results/Findings of the Study

### 4.1. Focus Group Workshop

The following were the results from the focus group workshop:

Questions	Responses from focus group
<b>4.1.2.</b> The focus group participants were asked that views towards the implementation of a Computerised Accounting Curriculum:	All the participants agreed that a Computerised Accounting Curriculum enhance accounting students' rate for employability traits and self – reliance (consultancy). The participants further agreed that it was a challenge for most of them to be on internship without having attained Computerised Accounting Skills. They perceived that most of the employers prefer students with knowledge and skills in Computerised Accounting. Therefore the focus group appreciated and welcomes the idea to implement a Computerised Accounting Curriculum as part of the Bsc Hons in
<b>4.1.3.</b> The focus group was asked whether there were any benefits that accrue from an implementation of a Computerised Accounting Curriculum:	The participants agreed that there are many benefits that accrue from the implementation of a Computerised Accounting Curriculum. The following are some of the benefit; The users of a Computerised Accounting System adopt data entry processing skills that enhance the speed for operating a computer. The users may easily adapt to cloud accounting and this enhances the chances for getting consultancy work.
4.1.4. The participants were asked whether an inclusive curriculum takes into account: problem - solving, analytical thinking:	<ul> <li>The participants agreed that an inclusive curriculum enhances accounting learner's problem solving and analytical thinking through the use and comparison of different reports that may be extracted from the accounting software. The following were the examples which they provided during the focus group:</li> <li>If the physical inventory is not agreeing with the figure in the nominal ledger:</li> <li>If seasy to make reconciliation as we compare the physical stock with the theoretical stock from Computerised system such as Sage Pastel Accounting. The two reports will show where there are discrepancies and journals are then passed to make corrections. This is quick that a manual system whereby individuals should add the balances on each bin cards and then compare with the actual stock- taking, this may take some days otherwise the reconciliation may overlap to the following month without being finished.</li> <li>If the bank reconciliation is not balancing:</li> <li>The one who is reconciling may compare the print- outs for the receipts and payments with the bank statements to establish the discrepancies. This does not take time as compared with the manual cash book whereby the actual manual cash book is compared with the bank statements.</li> <li>If the debtors control is not agreeing with individual debtors ledgers</li> <li>The credit controller may compare the debtors ledger balances with the nominal ledger and the payments from the main cash book. This exercise does not take much time as compared to the manual reconciliation of debtors whereby each receipt (payment) from customer is to be manually added to get that particular month. This is time consuming as compared to the Computerised accounting system were balances are tested for validity before checking individual accounts.</li> <li>If the creditors control is not agreeing with individual creditors ledgers</li> </ul>
4.1.5. The following are computerised accounting and other software that the participants were comfortable to use:	We are comfortable to use the following software as future accountants: Sage Pastel Accounting, Quick- Books, Excel spreadsheets, Word processing and Power - point.

#### 4.2. Face -to- Face Interview

The researchers used a face- to- face interview as a follow -up to the focus group workshop, to see whether the individual perceptions were agreeing with the group's perception towards the implementation of a computerised accounting Curriculum. The criteria used to select participants for face- to- face interview included 1 (one) internship student from each class (batch). This means that this convenient strategy included a representative in each class and campus, see Table 5.

Table 5.	Participants	for face to	face int	terview and	coding sy	stem (ada	pted from	researchers)

	Gaborone						Francistown	Maun	Total
	Batch 1	Batch 2	Batch 3	Batch 4	Batch 5	Batch 6	Batch 1	Batch 1	
Number of students	1	1	1	1	1	1	1	1	8
Participants' code	GAB01	GAB02	GAB03	GAB04	GAB05	GAB06	FTW01	MAU01	

#### 4.2.1. Results for face- to- Face Interview

The following were the results for the face-to face interview:

#### Participant: GAB01

# What is your view towards the implementation of a Computerised Accounting Curriculum?

I welcome the implementation of a Computerised Accounting Curriculum in our Bsc Hons in Accounting. This system will assist me and my peers in gaining computer skills that are needed with employers. It was a challenge to work in the accounting department without these skills.

# Which computerised accounting and other software that you are comfortable to use?

The most important software that I want to use during my entire life is Sage Pastel Accounting and Excel Spreadsheets.

#### Participant: GAB02

# What is your view towards the implementation of a Computerised Accounting Curriculum?

The Computerised Accounting Curriculum is long over –due, we have been asking management every about its implementation. We have discovered that many employers prefer accounting graduates with who are knowledgeable of Sage Pastel Accounting, Quick Books or ACCPAC. Therefore we have seen during our internship that knowledge of any of the accounting packages is very important.

# Which computerised accounting and other software that you are comfortable to use?

As I have mentioned in the earlier question I prefer any of the following accounting packages: Sage Pastel Accounting, Quick Books and ACCPAC.

### Participant: GAB03

# What is your view towards the implementation of a Computerised Accounting Curriculum?

I welcome the introduction of a Computerised Accounting Curriculum into our Accounting Programme. This curriculum will enhance our computer skills and add value to our Accounting Programme.

# Which computerised accounting and other software that you are comfortable to use?

The following are the software that I am comfortable to use in the accounting department: Sage Pastel Accounting, Excel Spreadsheets and Power Point for presentations.

#### Participant: GAB04

# What is your view towards the implementation of a Computerised Accounting Curriculum?

I welcome the implementation of a Computerised Accounting Curriculum and support this motion. Those students who do not support this idea are technophobia and they will have challenges working in an accounting environment as adaption of advanced technology is the right direction for future leaders.

# Which computerised accounting and other software that you are comfortable to use?

I am comfortable working with Sage Pastel Accounting and Excel spreadsheets.

### Participant: GAB05

# What is your view towards the implementation of a Computerised Accounting Curriculum?

I like the idea for implementing a Computerised Accounting Curriculum in our Bsc Hons in Accounting as this enhances our Accounting Programme.

# Which computerised accounting and other software that you are comfortable to use?

I am comfortable with Sage Pastel Accounting and Excel Spreadsheets.

#### Participant: GAB06

# What is your view towards the implementation of a Computerised Accounting Curriculum?

This is a brilliant idea and during my internship I had some challenges working with Sage Pastel Accounting and Excel Spreadsheets. Therefore, implementing a Computerised Accounting Curriculum will assist especially during internship period and after completing the Accounting Programme as most employers assume that students are already exposed to any accounting package.

# Which computerised accounting and other software that you are comfortable to use?

I am comfortable to work with Sage Pastel Accounting and Excel Spreadsheets as these are the most popular software with many employers.

#### Participant: FTW01

# What is your view towards the implementation of a Computerised Accounting Curriculum?

I welcome the idea for implementing a Computerised Accounting Curriculum as it enhances our computer skills and communication skills. These are soft skills that are needed in commerce and industry.

# Which computerised accounting and other software that you are comfortable to use?

I am comfortable to use Sage Pastel and Excel Spreadsheets.

Participant: MAU01

# What is your view towards the implementation of a Computerised Accounting Curriculum?

I like this idea of implementing a Computerised Accounting Curriculum as it enhances critical, analytical thinking skills and problem - solving skills through the use of accounting packages.

# Which computerised accounting and other software that you are comfortable to use?

I am comfortable to use Sage Pastel, Power Point and Excel Spreadsheets.

In this study it has been shown that theme 4 (key skills – see figure 1) is a fundamental aspect in the Bsc Hons in Accounting. Based on the students perceptions above it shows that Computerised Accounting Curriculum is critical to accounting students or graduates as it enhances the Accounting Programme hence its implementation is very important. In this day and age students should be exposed to a curriculum that requires them to learn by doing as confirmed in [14] experiential learning study (see figure 2) and Computerised Accounting Package is one of the module in Accounting that encourages learners to learn through doing (a concept of hands -on). Employers expect

students or graduates who are well rounded and skilled. In an accounting environment the introduction of teaching a Computerised Accounting module is one of the best approaches to learning by doing. Therefore, an Accounting Programme should incorporate a concept that teaches students beyond class- room.

## 5. A Detailed Plan for Participants' Reactions

The participants described a detailed plan through their reactions which assist in the development of a practical curriculum for Sage Pastel Software as shown in figure 3.



Figure 3. Sage Pastel Accounting Curriculum - Flow Diagram based on participants' reactions (adapted from the researchers)

The above detailed plan assist accounting educators in developing a computerised accounting curriculum as this equip accounting students with practical skills that are needed in commerce and industry.

The following were detailed curriculum design and development strategies based participants' reactions:

When designing a computerised and developing an accounting curriculum the following stakeholders should be consulted as suggested by the participants (see table 6).

**Table 6.** Stakeholders to be involved when designing and developing acurriculum based on participants' reactions (Adapted from the researchers,2016)

Stakeholders		Stakeholders' significance				
1) Students •		It is imperative to involve the students in designing and developing a curriculum for computerised accounting.				
2) Alumni	•	A tracer study to former students assist in improving and closing the existing gaps.				
3) Lecturers •		Lecturers play a key role in developing and designing a curriculum.				
4) Software vendors	•	The vendors are important as they provide with specifications and training and development.				
5) Industry forum	•	Industry provides with feedback on the curriculum.				
6) Government	•	Provide support and feedback to the entire institution.				

## 6. Conclusions

The results above show that both focus group workshop and face -to - face interview support the implementation of a Computerised Accounting Curriculum as it enhances an Accounting Programme. This module for Computerised Accounting assists students in mastering skills that are needed during the internship as well as in industry and commerce after the completion of the Accounting Programme. Therefore, if this module is implemented well it may increase the chances for employability and self – reliance as the graduates will possess the required skills and knowledge that are needed in an accounting environment. The following were recommendations given if this module is introduced:

## 7. Recommendations

- Conduct workshops with the students so that they understand the importance and benefits for introducing the Computerised Accounting module in the Bsc Hons in Accounting Programme
- Accounting Programme should adopt a concept beyond the class- room (a concept of hands -on or learning by doing)
- Seek approval from Botho University Senior Management before implementation of the Computerised Accounting module

- If the Computerised Accounting module is approved by Senior Management, submit for accreditation with Botswana Qualification Authority
- Pilot the implementation of the Computerised Accounting module first before introducing it to many students
- The assessments for this Computerised Accounting module should be practical in nature
- The teaching methodology of a Computerised Accounting module should be practical based and it is also important to involve the industry and accounting firms during the implementation of the curriculum
- Coordinate and collaborate with Sage Pastel Vendor (Suppler in South Africa) for detailed information
- Training of faculty members with a Certified Sage Pastel Facilitator
- Future studies:
  - inquire from employers the relevance or the need for teaching a Computerised Accounting module to Accounting students
  - comparison of performance for students who have been exposed to Computerised Accounting module and students not exposed to Computerised Accounting module

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