IMPACTS OF SERVICE QUALITY, SATISFACTION AND PERSONAL FACTORS ON STUDENT RETENTION IN OPEN DISTANCE LEARNING INSTITUTIONS IN MALAYSIA

NG MAN SAN

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2010
IMPACTS OF SERVICE QUALITY, SATISFACTION AND PERSONAL FACTORS ON STUDENT RETENTION IN OPEN DISTANCE LEARNING INSTITUTIONS IN MALAYSIA

NG MAN SAN

A thesis submitted in full fulfilment of the requirements for the degree of Master of Science (Business Administration)

Centre for Graduate Studies
Open University Malaysia
2010
DECLARATION

Name: NG MAN SAN

Matric Number: CGS 00311808

I hereby declare that this thesis is the result of my own work, except quotations and summaries which have been duly acknowledged.

Signature: Date: 1st October, 2010
IMPACTS OF SERVICE QUALITY, SATISFACTION AND PERSONAL FACTORS ON STUDENT RETENTION IN OPEN DISTANCE LEARNING INSTITUTIONS IN MALAYSIA

NG MAN SAN

October 2010

ABSTRACT

The purpose of this study was to determine the impacts of service quality, student satisfaction and personal factors on student intention to complete study in open distance learning (ODL) institutions. A cross-sectional survey design was employed in this study. Data was collected during the period from October to December, 2009 from a nation-wide random sample of 450 Open University Malaysia (OUM) undergraduate students. Several statistical techniques were used to analyse the data and they include producing frequency counts for generating descriptive statistics. In addition, factor analysis was used to identify and confirm the factors of service quality, student satisfaction and student retention. Multivariate analysis was also used for testing hypotheses and measuring the impacts of factors on student retention. The study findings based on 342 usable questionnaires indicated that service quality and its four dimensions (tangibility, reliability, responsiveness, and assurance) had positive impacts on overall satisfaction. However, the empathy dimension did not have any effect. Five factors were found to have effects on student intention to complete study in OUM. They were: student satisfaction, goal commitment, family support, study habits and number of semesters attended. However, service quality had no effect. The findings indicated that low student retention in ODL institutions was attributed not only to student satisfaction but also to a combination of personal factors. It follows that the key to an effective retention strategy is for ODL institutions to provide quality support services that meet the satisfaction of the students. Additionally, ODL institutions should help the students to overcome their personal problems.

Keywords: Service Quality, Satisfaction, Retention, SERVPERF, Factor Analysis
IMPAK PERKHIDMATAN KUALITI, KEPUASAN DAN FAKTOR-FAKTOR PERIBADI KE ATAS RETENSI PELAJAR DI INSTITUSI-INSTITUSI PEMBELAJARAN TERBUKA DAN JARAK JAUH DI MALAYSIA

NG MAN SAN

October 2010

ABSTRAK


Kata Kunci: Perkhidmatan Kualiti, Kepuasan, Retensi, SERVPERF, Analisis Faktor
ACKNOWLEDGEMENTS

During my lengthy and challenging journey towards completing this thesis, I have learned many valuable lessons. The lessons, though not pleasant at the time, helped me to understand and appreciate the true essence of academic and institutional research. Beyond these valuable lessons, I eagerly acknowledge my indebtedness and sincere gratitude to the many individuals who have helped make this thesis possible. They include my supervisor, colleagues, friends and many others whose names may not even be recorded in this acknowledgement page. First and foremost, I would like to express my heartfelt gratitude to my supervisor, Professor Dr. Latifah Binti Abdul Latif for her guidance, advice and support while conducting this study. I am also extremely grateful to Professor Ramli Bin Bahroom and my supervisor for their expert review of the instruments used in my research and their constructive comments. I would also like to express my sincere thanks to the students of Open University Malaysia (OUM) for their participation, cooperation and support in providing valuable data required for this research. I also wish to record my appreciation to OUM and its Centre of Student Management (CSM) for providing me with the relevant data and computing and other facilities needed to conduct my research.

I would like to extend my deepest appreciation to my friends and colleagues in and outside OUM for their encouragement and support. I gratefully acknowledge the contributions of Kate Van. Thanks for her thoughtful encouragement and advice to persist in my research as well as valuable technical support throughout the duration of this study. Last but not least, my Special Thanks to my daughters, Mei Yee and Lai Yee for their continuous encouragement, support and having faith in me to complete this study.
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<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>AeU</td>
<td>Asia e-University</td>
</tr>
<tr>
<td>AVE</td>
<td>Average variance extracted</td>
</tr>
<tr>
<td>CFA</td>
<td>Confirmatory Factor Analysis</td>
</tr>
<tr>
<td>CFI</td>
<td>Comparative fit index</td>
</tr>
<tr>
<td>EFA</td>
<td>Exploratory factor analysis</td>
</tr>
<tr>
<td>Ha</td>
<td>Alternative hypothesis</td>
</tr>
<tr>
<td>HEIs</td>
<td>Higher education institutions</td>
</tr>
<tr>
<td>Ho</td>
<td>Null hypothesis</td>
</tr>
<tr>
<td>ICT</td>
<td>Information, technology and communication</td>
</tr>
<tr>
<td>MMU</td>
<td>Multimedia University</td>
</tr>
<tr>
<td>NFI</td>
<td>Normed fit index</td>
</tr>
<tr>
<td>ODL</td>
<td>Open Distance Learning</td>
</tr>
<tr>
<td>OUM</td>
<td>Open University Malaysia</td>
</tr>
<tr>
<td>PGFI</td>
<td>Parsimony Goodness-of-fit Index</td>
</tr>
<tr>
<td>RMSEA</td>
<td>Root Mean Square Error of approximation</td>
</tr>
<tr>
<td>MCE/SPM</td>
<td>Malaysian Certificate of Education/Sijil Pelajaran Malaysia</td>
</tr>
<tr>
<td>MHCE/STPM</td>
<td>Malaysian Higher Certificate of Education/Sijil Tinggi Pelajaran Malaysia</td>
</tr>
<tr>
<td>UiTM</td>
<td>Universiti Technology Mara</td>
</tr>
<tr>
<td>UKM</td>
<td>Universiti Kebangsaan Malaysia</td>
</tr>
<tr>
<td>UM</td>
<td>University of Malaya</td>
</tr>
<tr>
<td>UNIRAZAK</td>
<td>Universiti Tun Abdul Razak</td>
</tr>
<tr>
<td>Abbreviation</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>UNITAR</td>
<td>Universiti Tun Abdul Razak</td>
</tr>
<tr>
<td>UPM</td>
<td>Universiti Putra Malaysia</td>
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<tr>
<td>USM</td>
<td>Universiti Sains Malaysia</td>
</tr>
<tr>
<td>UTM</td>
<td>Universiti Teknologi Malaysia</td>
</tr>
<tr>
<td>WOU</td>
<td>Wawasan Open University</td>
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<tr>
<td>VIF</td>
<td>Variance inflation factor</td>
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CHAPTER 1
INTRODUCTION

1.1 Background

In its aspiration to become a developed nation by 2020, Malaysia has embarked on an initiative to democratise higher education; this initiative targets two-fifths of the country’s population in the 17-23 years age group, and one-third of the labour force to receive tertiary education by 2010 (Ministry of Higher Education, 2004). In response to this initiative and with the advent of rapid information and communication technology (ICT) change, higher education institutions (HEIs) have been increasing opportunities to meet society demands for tertiary education. In addition, HEIs have also been improving the system of delivering higher education by offering distance learning courses and programmes. With distance learning, students are now able “to learn from a distance with physical separation between them and their teacher during education delivery and to focus on independent and self-direction study” (Holmberg, 1980).

In democratising higher education, the government has also introduced policies that allow for the establishment of private higher education institutions (PHEIs) along with the growth of public funded universities. In the last decade, this development has led to an emergence of two categories of education institutions as the providers to support the
distance education sector. The first category refers to institutions of dual modes. In addition to conducting regular campus-based and classroom-type courses, the dual-mode institutions also offer programmes via distance learning. Included in this category are the majority of the twenty public funded universities for example, Universiti Sains Malaysia (USM), University of Malaya (UM), Universiti Technology Mara (UiTM), and Universiti Putra Malaysia (UPM), and at least two private universities that is, Multimedia University (MMU) and International Medical University (IMU).

The second type of HEIs refers to the single-mode open and distance learning (ODL) institutions which are privately funded and which conduct all their courses and programmes via distance learning. There are currently four ODL universities in the country, namely Open University Malaysia (OUM), Universiti Tun Abdul Razak (UNIRAZAK) or previously know by the acronym UNITAR, Wawasan Open University (WOU) and Asia E-University (AeU). These ODL universities are classified as ‘open’ as they are permitted by the government to admit students under the open entry system; that is, students can be admitted to undergraduate programmes on the basis of the PMR/SRP/LCE qualification or equivalent and prior working experience.

Each of these four ODL universities operates under slightly different systems of delivering distance education. Established in 1998, UNIRAZAK initially operated as an institution that provided distance education programmes via ICT media and the internet (Alhabshi & Hakim, 2006). Currently UNIRAZAK offers face-to-face classes combined with the effective use of web-based courseware and online tutorials. OUM was established in 2000, just two years after UNIRAZAK. As Malaysia’s first open distance university, OUM offers a blended mode with face-to-face teaching combined with
internet-based delivery of instructions from the lecturers to the students. WOU was established in 2007. Like OUM, WOU employs a flexible mode that incorporates e-learning as a means to help the students study at their own pace without leaving their employment or compromising other commitments. AeU, formed in 2008, is the latest ODL institution in Malaysia. It is an international university that collaborates with institutions of higher learning in 31 Asian countries through ODLs. AeU relies on the ICT to deliver distance education as well as face-to-face teaching.

The four ODL universities are privately owned and hence depend mainly on tuition fees to fund their operations. In order for the ODL institutions to generate business profits or even to maintain their economic existence, they need to have sufficient students. In contrast, the existence of the public universities is not driven by student enrolment. Revenue from tuition fees as a business issue does not seriously arise for these public universities as they are financed by the government.

Study programmes offered by ODL institutions appeal to the population masses, particularly working adults who aspire to improve their academic qualifications in order to secure better careers and quality of life. This is because ODL programmes are flexible, convenient and affordable (Ali, 2005). Consequently, there has been a rapid increase of distance student enrolment in these ODL institutions. The researcher estimated from the ODL institutions’ websites, that the cumulative ODL enrolment has now exceeded 100,000 students; this suggests that distance education forms a significant component of the national educational system.

However, despite the large enrolment size, ODL institutions face the common problem
of large withdrawal of students before completing their studies and earning a degree. The benefits of distance learning which include upgrading the nation’s workforce and increasing individual income, are reduced by pre-mature withdrawal of students. Business income of ODL institutions can also be affected by poor student retention. Pre-mature withdrawal of students or poor student retention is therefore a major business issue faced by all ODL institutions. The present study is designed to focus on this issue.

1.2 Statement of the Problem

The existence of many HEIs in the education market has created a buyers’ market; students are now in the position to choose the university they wish to study. Given the highly competitive education market, ODL institutions need to overcome two challenges in order to make profits or to maintain their existence. The first challenge is that ODL institutions need to compete successfully for adequate intake of students. The second challenge is to determine a way for preventing their existing students from leaving the institutions. It is the second challenge of retaining the existing students that is the concern for this study.

As noted earlier, there is an indication that large numbers of students leave their ODL institutions every year without completing their studies. For example, OUM, the largest of the four ODL institutions, registered about 20 percent of student attrition in 2004 (Bahroom & Abdol Latif, 2005). The student attrition situation has not improved but has in fact worsened for example, to 27 percent in 2007 (Abdol Latif & Fadzil, 2007). Low student retention affects the business operation of ODL institutions because it means a loss in future revenue. For example, a decline of one per cent in student retention in OUM would result in a reduction of RM4.5 million of revenue from tuition
fees for a degree programme (Abdol Latif, 2009). In addition, poor student retention would project the institutions with poor image, dented reputation and inferior quality in the study programmes (Hossler, 2005; Moody, 2004). These negative perceptions about the ODL institutions would erode institutional competitiveness, which if not arrested would in turn lead to failure of sustaining their business operations. Poor student retention is therefore viewed by ODL institutions as a serious business problem; this is reflected by many of the retention initiatives introduced by them. For example in OUM, a special committee has been set up in 2005; the special committee has since been active to find ways and means of reducing student attrition (Abdol Latif & Fadzil, 2007).

It is clear from the above discussion that one of the most challenging problems faced by ODL institutions in Malaysia is how to retain the students throughout their study programmes. In the services sector, firms also encounter customer retention problem. To overcome the customer retention problem, firms apply customer relationship marketing principles to build up business relationship with their customers, which in turn would lead to improved customer satisfaction and retention. The researcher is of the opinion that similar marketing approach can be applied to overcome the problem of student retention in ODL institutions in Malaysia.

The approach of applying marketing principles would require the ODL institutions to offer quality services and to improve student satisfaction with the services provided. However, there appears to be an inadequate or lack of empirical information reported in the literature to support this approach within the Malaysian ODL environment. To fill the data void, this study was conducted to investigate whether service quality and
student satisfaction affect the retention of ODL students in Malaysia based on data collected from a sample of OUM students.

1.3 Rationale of the Study

The purpose of carrying out this study is to provide the ODL institutions and researchers with information that can be used to better manage student retention and to conduct further research on ODL institutions. The information that is expected to be generated from this study includes empirical information concerning the relationship of service quality, student satisfaction and personal factors with student intention to complete studies in ODL institutions. Educationists and administrators could use the information obtained to improve the quality of services and student satisfaction, and to find ways to help minimise personal problems faced by the students.

1.4 Main Objective of the Study

The main objective of the study was to determine the relationship of service quality and student satisfaction with student intention to complete studies in OUM.

1.5 Specific Objectives of the Study

The specific objectives of the study were:

a) To determine the positive impacts of service quality dimensions on student satisfaction in OUM.

b) To determine the positive impacts of service quality and student satisfaction on student intention to complete studies in OUM.
c) To determine the positive impacts of goal commitment, family support, number of semesters attended and study habits on student intention to complete studies in OUM.

1.6 Significance of the Study

This study is significant as it can contribute towards the following:

a) The study is expected to operationalise the construct of service quality within an ODL setting, and this could form the operational definition for future studies in related areas concerning distance learning.

b) The research findings are expected to add to the growing body of knowledge pertaining to education, marketing and improvement of student retention in distance learning. In particular, the research findings would lead to a better understanding of issues related to service quality, student satisfaction, personal factors and student retention, the inter-relationships among the constructs of interest and their impacts on student retention within the context of Malaysian ODL institutions.

c) The results of the study could be used as a guide for determining areas in distance learning which need improvement and where students are currently not satisfied with.

d) The study makes a case on the practical usefulness of conducting institutional research in distance learning.

1.7 Scope of the Study

The study was confined to OUM. As the largest of the four ODL institutions in Malaysia, OUM is the representative distance learning model of the ODL sector. In general, the nature of the problems faced by OUM is no different from that encountered by the other ODL three institutions though the magnitude might vary among them.
Therefore, the findings obtained concerning OUM in the study are likely to be useful to the entire ODL sector for improving distance learning enrolment.

There are two groups of students studying the various programmes in OUM. They are the undergraduate students and postgraduate students. More than half of the undergraduates are teachers under the special Ministry of Education-OUM education programmes and the rest are students in the open market diploma and degree programmes. Students in the open market programmes registered a much higher attrition rate as compared with that recorded for the teacher-students. This study focused only on the undergraduate students in the open market programmes, thus excluding the teacher-students and the postgraduate students. The unit of analysis for the study therefore referred to this group of OUM undergraduate students in the open market programmes.

1.8 The Open University of Malaysia

In this section, a brief review of the profile of OUM is given. Established in the year 2000, OUM is Malaysia’s first ODL institution, and seventh private university. The missions of OUM are (a) to be the leading contributor in democratising education, (b) to develop quality education through multi-mode learning technologies, and (c) to develop and enhance learning experiences towards the development of a knowledge-based society. It is driven by its motto, “University for All”. It is marketed as Malaysia’s preferred choice to earn a degree for individuals who are working and unable to leave their full-time jobs or businesses.
OUM offers a blended learning mode that combines printed learning materials as the main learning resource supplemented by face-to-face interactions at regional centres and e-learning through a specially designed Learning Management System (Ali, 2005). Through e-learning, ICT is used to connect learners and the tutors apart from the face-to-face-tutorial sessions. Thus, learners are able to benefit academically from the online communities of learning, learning from and with each other as well as socialising with each other, and communicating with their tutors.

More than fifty learning centres have been established throughout Malaysia to provide learning facilities to learners of OUM. This approach of decentralisation provides a strategic convenience and support for learning to the students as enquiries concerning both academic and non-academic matters could be directed to the staff manning the local learning centres.

OUM emphasises on quality of education and providing its learners with an enriching and rewarding number of semesters attended throughout their study years. OUM achieves this by offering diverse support systems and services such as a learner services centre, a digital library, a learning management system (myLMS), an integrated student management system, distributed learning centres, ICT services and academic counselling services.

OUM offers more than seventy programmes which include business studies, sciences, information technology and communication, education and language, nursing and applied social science studies. These programmes are offered at three academic levels, namely diploma, undergraduate degree and post-graduate degree programmes,
1.9 Definitions and Terms

a) Distance learning: Distance learning or distance education is defined as the instruction where “students and teachers are separated by distance and sometimes by time” (Moore & Kearsley, 1996). It is designed to deliver education to students who are not physically “on site”.

b) Open entry system: Under the open entry system, the Government permits the distance learning institution to admit students on the basis of the PMR/SRP/LCE qualification and prior learning, training and life experience.

c) Learners’ (students’) retention: Occurs when students complete, continue or resume their studies in an ODL university. It is the opposite of Learners’ (students’) attrition.

d) Blended learning mode: Distance learning may take the form of blended learning mode by combining it with e-learning and self study. Blended learning mode is commonly practised in all the ODL institutions in Malaysia.

e) Confirmatory analysis: Use of a multivariate technique to test (confirm) a pre-specified relationship. It is the opposite of exploratory analysis.

f) Exploratory analysis: Analysis which defines possible relationships in only the most general form and then allowing the multivariate technique to estimate relationships.

g) Construct: Unobserved or latent concept that the researcher can define in conceptual terms but cannot be directly measured, and must be approximately measured by multiple indicators.

h) Goodness-of-fit (GOF) Measure indicating how well a specified model reproduces the covariance matrix among the indicator variables.
1.10 Limitations

A few limitations of this study are noted. First of all, the target population from which the sample was selected consisted only of the undergraduate students of OUM from the open market. Accordingly, the results obtained in the study may not be entirely applicable to the teacher-students (sponsored by the Ministry of Education), post graduate students of OUM and students of the traditional universities that offer distance learning programmes.

The second limitation of the study is that students were assumed to be the primary customers of ODL institutions. However, a more inclusive study should include all internal and external stakeholders including academic, administrative, and staff.

Another limitation is that the validity of the data collected may be affected by possible inaccurate answers provided by the respondents. Even though the questionnaire was pilot tested and the respondents were promised anonymity, some invalid data may still be collected in any questionnaire survey due to respondents’ misunderstanding of the questions and their unwillingness to provide accurate answers.

1.11 Organisation of the Thesis

This thesis consists of five chapters. Chapter 1 provides an introduction to the study. Chapter 2 reviews the literature on the theoretical background of service quality, student satisfaction and retention as well as past research studies on student retention. Chapter 3 explains the theoretical framework, research hypotheses, and the methodology employed by the researcher in the study. Chapter 4 explains the results of statistical
analysis performed for the study. Finally, Chapter 5 discusses the findings of the study, recommendations and conclusions of the study.

1.12 Summary

In this chapter, the researcher has stated the problem to be studied in this research and the rationale for conducting the study. The researcher has also explained the main and specific objectives, significance and limitations of the study. The definitions of the key terms used in the study have also been given. Thus, a general overview of the research problem has been delineated. In Chapter 2, the literature relating to the study is reviewed.
REFERENCES


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APPENDIX A

QUESTIONNAIRE

SECTION A: BACKGROUND

Note: Please write your answers in the yellow boxes provided.

A0: Learning Centre

A1: Age (in years)::

A2: Gender (Male =1; Female = 0)

A3: RACE
   (Malays=1
   Chinese=2
   Indians=3
   Other Bumis=4
   Others=5)

A4: No of semesters completed

A5: Degree Programme attending
   (eg BBA, BAC)

A6: Principal occupation :
   (eg clerk)

A7 We would like to know more about your learning environment

NOTE: Give your answer: YES or NO

<table>
<thead>
<tr>
<th>Yes/No</th>
<th>a I have time to study during my work day.</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>b My family is supportive of my study goal</td>
</tr>
<tr>
<td></td>
<td>c I have time to study at home</td>
</tr>
<tr>
<td></td>
<td>d I have set a goal to complete my degree programme</td>
</tr>
<tr>
<td></td>
<td>e I have difficulty balancing study with work &amp; family commitments</td>
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## SECTION B: STATEMENTS OF SERVICE QUALITY

NOTE: Please indicate your degree of agreement for each statement by crossing with an 'X' in the appropriate box. The scale is: 1: Strongly disagree; 2: Disagree; 3: Somewhat disagree; 4: Neutral; 5: Somewhat agree; 6: Agree; 7: Strongly agree

<table>
<thead>
<tr>
<th>No</th>
<th>Statements</th>
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<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>OUM has up-to-date equipment</td>
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<tr>
<td>B2</td>
<td>OUM has physical facilities that are appealing</td>
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<td>B3</td>
<td>OUM's employees are well dressed and neat</td>
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<tr>
<td>B4</td>
<td>OUM has attractive printed modules</td>
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<tr>
<td>B5</td>
<td>When OUM promises to do something by certain date, it does so.</td>
<td></td>
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<tr>
<td>B6</td>
<td>When you have problems, OUM is sympathetic and reassuring</td>
<td></td>
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<td>B7</td>
<td>OUM is dependable</td>
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<td>B8</td>
<td>OUM provides its services at the time it promises to do so</td>
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<td>B9</td>
<td>OUM keeps its records accurately</td>
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<td>B10</td>
<td>OUM tells its students exactly when its services will be delivered.</td>
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<td>B11</td>
<td>You do not receive prompt services from OUM's employees</td>
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<td>B12</td>
<td>Employees of OUM are not always willing to help</td>
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<td>B13</td>
<td>OUM's employees are too busy to respond to student requests promptly</td>
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<td>B14</td>
<td>You can trust employees of OUM</td>
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<td>B15</td>
<td>You can feel safe in your transactions with</td>
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<td>B16</td>
<td>Employees of OUM are polite</td>
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<tr>
<td>B17</td>
<td>Employees get support from OUM to do their jobs well</td>
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<tr>
<td>B18</td>
<td>OUM does not give you individual attention</td>
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<tr>
<td>B19</td>
<td>OUM's employees do not give you personal attention</td>
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<td>B20</td>
<td>OUM's employees do not know what your needs are</td>
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<tr>
<td>B21</td>
<td>OUM does not have your best interests at heart</td>
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<tr>
<td>B22</td>
<td>OUM does not have operating hours convenient to its students</td>
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</table>
SECTION C: OVERALL SERVICE QUALITY

NOTE: Please cross with an 'X' to rate the overall service quality
The scale is: 1: Very poor; 2: Poor; 3: Quite poor;
4: Neutral; 5: Quite good; 6: Good; 7: Excellent

<table>
<thead>
<tr>
<th>No</th>
<th>Statements</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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<tr>
<td>C1</td>
<td>Overall, the quality of OUM services is:</td>
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<tr>
<td>C2</td>
<td>Overall, the performance of OUM degree programme is:</td>
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SECTION D: OVERALL SATISFACTION

NOTE: Please cross with an 'X' in the appropriate box to rate the overall satisfaction for the following OUM services.

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<th>No</th>
<th>Statements</th>
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<th>2</th>
<th>3</th>
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<th>5</th>
<th>6</th>
<th>7</th>
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<tbody>
<tr>
<td>D1</td>
<td>Overall, how satisfied are you with the OUM services?</td>
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<tr>
<td>D2</td>
<td>Overall, how satisfied are you with the OUM degree programme?</td>
<td></td>
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</table>

SECTION E: COMPLETE STUDY PROGRAMME

NOTE: Please cross with an 'X' in the appropriate box to indicate the degree of agreement for each of the statements.
The scale is: 1: Strongly disagree; 2: Disagree; 3: Somewhat disagree;
4: Neutral; 5: Somewhat agree; 6: Agree; 7: Strongly agree

<table>
<thead>
<tr>
<th>No</th>
<th>Statements</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1</td>
<td>I intend to complete my study at OUM</td>
<td></td>
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<td></td>
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<td></td>
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</tr>
<tr>
<td>E2</td>
<td>I doubt if I will complete my study programme at OUM</td>
<td></td>
<td></td>
<td></td>
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</tbody>
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### FILE LAYOUT

<table>
<thead>
<tr>
<th>Question</th>
<th>Description</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>A0</td>
<td>Learning Centre</td>
<td>Text</td>
</tr>
<tr>
<td>A1</td>
<td>Age</td>
<td>18, 19 ......</td>
</tr>
<tr>
<td>A2</td>
<td>Gender</td>
<td>Male=1, Female=0</td>
</tr>
<tr>
<td>A3</td>
<td>Race</td>
<td>Malay=1, Chinese=2, Indian=3, Other Bumis=4, Others=5</td>
</tr>
<tr>
<td>A4</td>
<td>No. of sem attended</td>
<td>1 to 15</td>
</tr>
<tr>
<td>A6</td>
<td>Degree Programme</td>
<td>Text</td>
</tr>
<tr>
<td>A5</td>
<td>Principal occupation</td>
<td>Text</td>
</tr>
<tr>
<td>A7A</td>
<td>I have time to study during my work day</td>
<td>Yes=1; No=0</td>
</tr>
<tr>
<td>A7B</td>
<td>My family is supportive of my study goal</td>
<td>Yes=1; No=0</td>
</tr>
<tr>
<td>A7C</td>
<td>I have time to study at home</td>
<td>Yes=1; No=0</td>
</tr>
<tr>
<td>A7D</td>
<td>I have set a goal to complete my degree programme</td>
<td>Yes=1; No=0</td>
</tr>
<tr>
<td>A7E</td>
<td>I have difficulty balancing study with work &amp; family commitments</td>
<td>Yes=1; No=0</td>
</tr>
<tr>
<td>B1</td>
<td>OUM has up-to-date equipment</td>
<td>Strongly disagree=1 to Strongly agree=7</td>
</tr>
<tr>
<td>B2</td>
<td>OUM has physical facilities that are appealing</td>
<td>Strongly disagree=1 to Strongly agree=7</td>
</tr>
<tr>
<td>B3</td>
<td>OUM’s employees are well dressed and neat</td>
<td>Strongly disagree=1 to Strongly agree=7</td>
</tr>
<tr>
<td>B4</td>
<td>OUM has attractive printed modules</td>
<td>Strongly disagree=1 to Strongly agree=7</td>
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<tr>
<td>B5</td>
<td>When OUM promises to do something by certain date, it does so.</td>
<td>Strongly disagree=1 to Strongly agree=7</td>
</tr>
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<td>B6</td>
<td>When you have problems, OUM is sympathetic and reassuring</td>
<td>Strongly disagree=1 to Strongly agree=7</td>
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<td>B7</td>
<td>OUM is dependable</td>
<td>Strongly disagree=1 to Strongly agree=7</td>
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<td>D1</td>
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<td>D2</td>
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