Analysis of Education Science Course Books Through Cloze Method

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Received: 23 September 2015; Accepted: 25 October 2015

ABSTRACT

This research aim to analyses education books (traditional and accumulation) using content analysis (cloze method). The main reason to do the research is self-read and self-learning rate survey of educational book in this academic span. This research results were studied in three mental, disappointing, educational and self-education and independent so that studied courses of each level are as follow: Mental and disappointing level: education philosophy, consulting introductory, mental pathology. Educational level: teaching methodology, research methodology introductory, learning psychology, game psychology, educational psychology, pre-school centers administration. Independent and self-study level: development psychology2, social psychology, and measurement.

Keywords: Content analysis- Payame Noor education science book, cloze method.

INTRODUCTION

Education is a process attempts to revolve and moderate learner’s behavior and works to achieve specific goals. Many factors influenced in this extended field. The main role played by curriculum includes goals contents, methods and evaluation. Book role in education process is to supply facilities and appropriate requirements to change student’s behavior through education appropriately. Human being need education in age ranges. Doubtfully, education and higher education system are the main institutes along with families are responsible of children education through pre-school to end of high school. In recent decades, important changes in curriculum and in consequence in books and educational materials preparation and adjustments, influential changes in content as student’s better engagement and activity in courses books is considered so that due to traditional and classic content-based patterns, nowadays education system replaced content-based pattern with comprehensive-based pattern. In one hand, influential changes and course books analysis and in the other hand, education multi aspects reform influenced on students and led to positive results in future.

Problem presentation:

One of education comprehensive principle is learner’s active engagement in learning process. So that they might engage with course book contents and reflect actively because, true learning occurs when student automatically engaged in active learning process. Thus, course books changes and reform is the basic necessity of education system in particular learners might occur in education system cycle for society and living in social system.Payame Noor educational system is one of the main centers or education system with particular attention to content. Due to remote learning process of Payame Noor education system, content is the most significant factor. The prominent difference between Payame Noor system and other higher education system in Iran is content issue and special attention to course books in this system, because, higher percentage of learning and education in Payame Noor system relied on students and pre-designed course books. In fact, if confirm teaching dynamic triangle in education systems in 3 factors of content,
teachers and learner as shown in figure1, this pedagogical triangle configured dis-appropriately in remote education system without coherent interactional and bilateral relationship.

Fig. 1: Conceptual relationship model between three educations’ main element.

Our motivation to challenge, study and analyze the current issue is to address 2 main elements of Payame Noor University course books learning (content and learner). It was required to study course book content through various analysis methods. Due to remote education system in Payame Noor University, content must be comprehensive, perceivable for learner also content must be fluent and promote hope and motivation in learner and met appropriate education quality. First and foremost, covering all these elements are self-study and course books independent content of Payame Noor University this is the differentiation elements of Payame Noor University education system. Thus, this research aims to analyze education science course books in consulting, and pre-school educational programing and management through content analysis method focused on cloze method in3 educational, self-study and independent and mental levels.

Research theoretical basis:

Curriculum contest is as same as course subjects used as a tool to achieve goals. Curriculum contest are significant due to their role in game program goal achievement.

Brerbelieves that content analysis is holistic term encompass various methods to analyze lectures, messages, articles, believes, emotions and views. Lamost such analysis includes the plan mostly used journals special words and influential, useful analysis) Thus, this research aims to study educational science books (traditional and accumulation) using conte4nt analysis (cloze method). The main cause of cloze method application in this analysis is to evaluate Payame Noor University course lessons self-reading and self-study ration.

Course study analysis helps authors and related administrations to choose more rational decisions during books preparation, edition, selection and reviews. One of analysis is content analysis. Content analysis is a regular survey for abstract and quantified description of books contents and Curriculum texts or messages comparison and content structure with Curriculum aims [10]

Thus, course books authors and related administrations accepts course contents analysis issue as a method to study educational books to achieve optimum patterns of course books edition. In consequence they might specify course book appropriate features and determine prepared course book deficits and drawbacks so they might use studied researches to improve course books.

It obvious that scientific and principal review, analyses, reform and revision course books contents result in positive consequences one of them is to create better field to improve and promote Curriculum and in turn improve student’s development and progress. Despite various methods applied in course book content analysis, it was used cloze method in this research because cloze method studies 3 required major elements (mental and disappointing, educational, and self-study) in order to improve book reading level and ration in self-study, educational and difficulty aspects.

D. cloze method: this method focused on holistic view and known as gestalt method through which it might discover books texts levels in educational, independence (self-study) and educational and mental pressure level.

Cloze method applied for written material difficulty ratio evaluation. Before Taylor method as cloze readability evaluation developed to evaluate text readability rate, researchers studied text difficulty rate through construction complete tests and multiple-option tests and determine correct answers percentage and average.

Researches and novelties about carried out about cloze test Reliability concluded that cloze is the most appropriate method to measure readability. The technique carried out in various methods. But in all of them, the aim is to determine text difficulty ration like VarovikElly method as follow.
**Varovik Eli method is as follow:**

1. Select various parts of the book (unseen parts).
2. Rewrite the first sentence of the text in initial form.
3. Remove the 5th word from the text and replaced it by dotted line.
4. Present dotted line texts to students to write the appropriate concepts in the blank.
5. Correct the answers and convert it to percentage as following vector.

**Table 1:** Determine the answers percentage and replacement in the levels.

<table>
<thead>
<tr>
<th>Table 1: Determine the answers percentage and replacement in the levels.</th>
<th>100</th>
<th>Self-study</th>
<th>60</th>
<th>Educational level</th>
<th>40</th>
<th>Mental pressure</th>
<th>0</th>
</tr>
</thead>
</table>

a. If the correct answers average, fall between 0-40% the text is in disappointing and mental pressure level. That is learners disable to study and comprehend the text.

b. If the result falls in 40-60%, it’s good and is in educational level.

c. If results are in 60-100% they are at independent level that is they can learn without teachers or others help.

In the other word, cloze readability test includes 5th word omission from sentence and replaced by blank or dotted line in unseen text for students. Students should think and fill in the blank with appropriate word. Text difficulty level includes answers average percentage filled in the blanks.

This is high validity test and it showed high correlation among standard and traditional tests with cloze passage readability test. Cloze passage used for many years. Unfortunately, rare researchers in Persian language focused on it. Researchers must focus on it in future. Through this method it might discover books text and writing levels in educational, self-study, difficulty (mental pressure) aspects (Roholamini, 2008).

**Research questions:**

1. What’s the category of educational programming and management books in cloze test category levels?

2. What’s the category of psychology books in cloze test category levels?

3. What’s the category of consulting and guiding books in cloze test category levels?

4. What’s the category of pre-school and school educational books in cloze test category levels?

**Methodology:**

Content analysis is known as one of the research method. Tools were used in this research include cloze method. It was used content validly to determine cloze test validity. Also, in various abroad researchers it was used measure validity to determine cloze readability tests validity. Tyler introduced cloze test validity through traditional comprehension tests. He obtained 0.76% correlation coefficient. Jeankise applied cloze test in high school level and report 0.75% correlation coefficient. Bourose applied cloze test for elementary level and report 0.82 correlation coefficient.

Sample includes two groups, first group included all Payame Noor University psychology and education science course printed books in 2009-2010. Second group include Payame Noor University consulting and education courses students computed in Morgan table as 286 students.

Random data sampling carried out among all selected books so that the addressed one in education programming and management books are education philosophy, teaching methodology, methodology, in pre-school and elementary school books are educational psychology, survey and management, pre-school centers administrations, also, consulting books are social psychology, developmental psychology 2, game psychology.

Sample volume commuted by Morgan table [6]. Sample volume numbers of each course are as follow:

**Table 2:** The statistical community and specified sample size.

<table>
<thead>
<tr>
<th>Major &amp; course</th>
<th>Students</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational programming and management</td>
<td>92</td>
<td>70</td>
</tr>
<tr>
<td>Consulting</td>
<td>41</td>
<td>36</td>
</tr>
<tr>
<td>Psychology</td>
<td>113</td>
<td>86</td>
</tr>
<tr>
<td>Pre-school education</td>
<td>40</td>
<td>36</td>
</tr>
<tr>
<td>Total</td>
<td>286</td>
<td>228</td>
</tr>
</tbody>
</table>

**Results:**

Research findings in study of educational science course books observed in table 3 by percentage:

**Statistical analysis results are shown in figure2:**

Study of educational programming and management course: it might have concluded that education philosophy book fall in disappointing and mental pressure levels and learners disable to study and comprehend the text in self-study fashion. In study of pedagogy techniques book as might conclude from computed percentage, pedagogy techniques book is appropriate educational level so that it must mention as one of the appropriate books of this system.
In research methodology as seen from computed percentages it might notice that research methodology has appropriate educational level and it’s useful for Payame Noor University remote education in self-study and self-reading aspects.

### Study of consulting books:

In study of consulting introductory book, it might conclude that consulting book is in disappointing and mental pressure level. In study of learning psychology as might observe from computed percentage the learning psychology book in in educational level. In study of mental pathology2 book from computed percentage it’s evident that mental pathology2 book is in mental pressure and disappointing level.

### Study of psychology books:

In study of developmental psychology2 book it might conclude that developmental psychology2 book involved in educational and independent level. In study of social relationship as noticed from computed percentage, the social psychology book is in independent and self-study level.

### Discussion and conclusion:

Content analysis is a regular method to abstract and quantitative description of books contents and Curriculum literature or comparison messages and content structure with Curriculum goals. It obvious that scientific and principal review, analyses, reform and revision course books contents result in positive consequences one of them is to create better field to improve and promote Curriculum and in turn improve student’s development and progress.

As seen from obtained results, most books at independence and self-study level have appropriate educational level too, that is not only learner understand content and text but also learner might study the material without participation in class independently. These books have high readability levels. Because the paragraphs and sentences are short and course composing sentences are numerous results in quick learning. As seen in chapter4 tables, it might indicate that as self-study level increase mental pressure decrease and learners study them in calm and peaceful manner.

Also, using obtained results it might compute that some books (pedagogy techniques, research methodology introductory, learning psychology) in addition to high educational level they have high self-study and independence level. It required Payame Noor University course books experts and designers to devote higher attempts to improve and complete the self-study level.

Also, obtained data indicated that some of above mentioned course books are in mental pressure and disappointing levels. That is, learners unable to study and understand the texts. In fact, not only learners and students unable to understand the contents but also they feel disappointed and mental pressure. This issue is more critical and challenging for learners in Payame Noor University educational environment and remote education because books and contents in Payame Noor University educational environments must designed so that not only the remove learners...
disappoint and mental pressure but also they show higher learning and education level, so that learner able to study course books and related contents (independent and self-study level), in fact, books must have higher readability level.

In current research, in study of books like pedagogy techniques, research methodology, Learning psychology, game psychology, educational psychology, and pre-school center managements) with high educational level, unfortunately, due to research limitations, required researches about above-mentioned books are not present in literature.

References