

The Whole Process Management and “Black Box Operation” of Graduation Thesis of Economics and Management for Applied Undergraduates: Theory and Practice

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Abstract: We should use the "black-box operation" in which unnecessary information may not be disclosed as much as possible in the evaluation and defense of graduation thesis and the whole process management infiltrating into the details of the work process of each graduation thesis, to achieve fairness and impartiality in the evaluation and defense of Graduation Theses of applied undergraduate economics and management, to improve the quality of graduation thesis. Ask students to sign the letter of credit in the process of graduation thesis writing and the letter of credit in the content of thesis; the second checking method is used to crack down on the buy, sharing and plagiarism of undergraduate graduation theses. The whole process management includes not only the selection of thesis tutors, topic selection, opening report, thesis writing and thesis defense, but also the second check after thesis defense and all other work related to graduation thesis.

1. Introduction

The undergraduate graduation thesis is a comprehensive and comprehensive test of the effect of four-year professional learning and graduation practice, and a comprehensive assessment of students' knowledge and ability. In the talent training programs of various majors, the graduation thesis occupies a very high credit, which also shows that the graduation thesis has a special important position in the work of student training. Grasping the writing and evaluation of graduation thesis, improving the quality of graduation thesis, and laying the foundation for students' work and continuing learning after graduation, is of great significance to the cultivation of students' comprehensive ability of Applied Management and the improvement of their research ability. In July 2018, the General Office of the Ministry of Education issued a document demanding that the sale and ghostwriting of graduation theses be strictly investigated. [1] In August of the same year, the Ministry of Education requested "to improve the quality of graduation thesis (design)". [2] The issuance of these notices by the Ministry of Education illustrates the prominence and urgency of the existing problems in our graduation thesis. Therefore, it is imperative to improve the quality of graduation thesis, realize the fairness and impartiality of graduation thesis evaluation, and severely crack down on the plagiarism, sale, sharing and proxy of graduation thesis.

2. Problems in Graduation Thesis of Applied Management Undergraduates

In the communication with some university teachers, we find that the problems in the graduation thesis of economic management of applied undergraduate specialty have strong commonality. It is mainly manifested in the following aspects:

2.1 The management of Graduation Thesis is not standardized

The management of Graduation Theses in many universities is extremely irregular, even confused, and the process management lacks the basic unified requirements. Even if there are uniform requirements, they are not strictly enforced, or the requirements are unreasonable. In the evaluation process, many majors of many universities do not achieve real anonymous evaluation. In the process of evaluation and defense, there are serious phenomena of giving grade by judging by

who is the student and who is his/her teacher. This phenomenon occurs from time to time, which students' papers participate in the defense without the consent of the supervisor or the consent of the reviewing teacher. Whether the quality of the paper is good or bad, it will eventually drain water.

2.2 Graduation Thesis Quality is not high, and the Downward Trend is Obvious

Topic selection, format, logical structure and thesis content all directly affect the quality of graduation thesis, which is a problem that must be considered when evaluating a graduation thesis.

In terms of topic selection, some papers are too wide or too narrow to write down, and some topics have nothing to do with the major, and some even the title words of the papers are not satisfactory and the sentences are not clear. In terms of format, there are many kinds, some students did not comply with the requirements at all. Titles, references, font sizes and line spacing at all levels of the paper, the problems are more or less, and papers' problems are very serious. In terms of logical structure, many graduation papers are not well structured or even very confused. And the whole paper does not know what itself is talking about. In terms of content, many titles at all levels can not reflect the content required by the titles at the next level of the article; moreover, the contents of each heading are seriously inconsistent with those of this heading. What's more, some of them even have references in their abstracts. In addition, some students are unwilling to do actual research, and the content of graduation thesis is very empty and has no substance.

2.3 Serious Unfairness in Graduation Thesis Evaluation

Another prominent problem in graduation thesis work is the serious unfairness and inequity of the evaluation. Some of the judges are too subjective and energetic. The graduation thesis was passed even it was poor, and even worse, it gets high marks often because of the student's graduation thesis is guided by a leader or his good colleague. Some leaders favor their students, and even very poor graduation theses are forcibly rated as excellent. Once a student's graduation thesis was directed by a leader, the reviewing teacher found that there were at least seven questions in the thesis that made it could not pass, but the team leader gave him the highest score of the whole group. Some judges directly give low marks if they don't understand their students' graduation theses. Even in the defense, they let the students step down and do not give the students a defense. The unfair evaluation of thesis not only fails to evaluate a truly excellent thesis, but also affects the enthusiasm of the next generation of students in graduation thesis writing. This will reduce the quality of students' graduation thesis.

2.4 Serious Plagiarism

Although the graduation thesis has been checked in recent years, the phenomenon of plagiarism is still very serious. In any case, some students still take chances. Even dead pigs are not afraid of boiling water. There are not a few graduation papers with a repetition rate of 30% every year. The graduation papers with a repetition rate of more than 70% also appear from time to time, and some of them even have a repetition rate of more than 97%.

2.5 Buying and Selling, Ghostwriting Graduation Thesis Phenomenon is Serious

After the graduation thesis defense, I often heard some students talking secretly about that a certain student had never been seen him writing his graduation thesis, but when he was asked to submit his graduation thesis, he was suddenly found that he had finished his graduation thesis. Or even if one heard him say to write, the total time to complete his graduation thesis is less than a week, and in this week no one see him has spent time in writing, but when he was asked to submit his graduation thesis, hand in his thesis as soon as he say so. And some of them turned out to be much better than the ones that were written so diligently. Some students even produce a graduation thesis in a day. Some students are aggrieved and say bluntly that some students buy their papers. At present, this phenomenon is very serious. Judging from these circumstances, the likelihood that these papers are bought or ghostwritten is indeed high.

2.6 Data Fraud is Serious

Data fraud is another sore point in my graduation thesis. Data fraud is an act of academic corruption and an important reason for the decline in the quality of graduation papers. It is mainly manifested in two aspects: data source fraud and data processing fraud. Data source fraud mainly has the following forms.

2.6.1 Fabricate Key Data

Some of the key data in some papers are completely fabricated. I once read a graduation thesis with the highest score of a certain group, and there was a paragraph like this: He e-mailed 20 experts and received 18 valid questionnaires. As an expert, when do you have time to take an E-mail survey of an undergraduate student? Then someone checked his graduation thesis and found that all his papers were plagiarized.

2.6.2 Enlarge Survey Sample

Some students expanded the sample size to demonstrate the representativeness of their data. If the original survey of the number of people only about 10, fabricated as a survey sample of 200 people.

2.6.3 Data Mismatches

A very typical phenomenon is the investigation of student groups limited to a few classmates, which is said to be the investigation of some groups in the whole society (tourism groups, logistics personnel). This may be ignorance on the one hand, and fraud on the other. Some students even ask their classmates to fill out questionnaires for some enterprise employees.

In terms of data processing fraud, mainly in some aspects such as data inspection and model inspection, they artificially adjust the test value that cannot pass the test to the test value that can pass the test.

2.7 Cheating is Serious in the Paper Examination

In order to reduce the repetition rate of graduation thesis, some students adopt various cheating methods. Mainly include:

2.7.1 Character picturization

When submitting the test paper, the high repetition rate of paragraph screenshots will be placed in the article.

2.7.2 Sentence Fragmentation

Modify the plagiarized sentences into completely unrecognizable ones. This kind of situation may cause the sentence of graduation thesis not to be fluent, or even cause a large area of sentence not to be fluent.

2.7.3 Content has Changed Dramatically

In order to reduce the repetition rate, some students delete the key sentences or paragraphs with high repetition rate in their graduation theses testing, and then put it in the defense. Some even submit the version of the paper defense is not the version of submitting the paper test at all. Some students even take an excellent graduation thesis written by others, after "cosmetic surgery" and disfigurement, and then send it to the examination. After passing the test, the previous papers will be used for graduation thesis defense only after revising the location and data.

2.8 The Phenomenon of "Sharing" of Graduation Thesis

The "sharing" of graduation thesis means that a graduation thesis is completed by one student or two or more students, and then used by two or more students as a graduation thesis. This usually happens between students of the same or similar specialty in different schools. Although this phenomenon is not common, it still exists.

3. Discussion on Graduation Thesis Work by Chinese Scholars

In order to solve the problems of graduation thesis, Chinese scholars have made a lot of useful explorations. Relevant to this paper, and more representative research mainly focuses on the following aspects:

3.1 On Improving the Quality of Graduation Thesis

Rao Jiahui et al. (2012) in view of the decline in the quality of undergraduate graduation theses, proposed that the graduation theses should be diversified in mode, form, paper training should be normalized, school-enterprise cooperation and teamwork of instructors should be strengthened.^[3] Li Minping and Xiong Zhanglin (2013) believed that the current undergraduate graduation theses were lack of standardization, disordered argumentation and inappropriate topic selection. They believed that in order to improve the quality of graduation theses, we should optimize topic selection, adjust writing time, strengthen the cultivation of students' writing ability, and strengthen the management and monitoring of graduation theses.^[4] These analysis and suggestions have a strong reference significance for improving the quality of graduation thesis. However, the system design needs further study.

Zhang Yan (2017) believed that the quality of undergraduate graduation theses could be improved only by highlighting the cultivation of students' scientific research ability, the applicability of topic selection, strengthening the joint guidance of schools and enterprises, and strictly checking the evaluation and defense links in the construction of curriculum system.^[5]

3.2 On Combating the Plagiarism of Undergraduate Thesis

Zhao Junjie (2010) believes that due to the influence of academic corruption, lack of discrimination between plagiarism and reasonable citation, lack of detection mechanism, and less punishment for plagiarism, plagiarism of undergraduate graduation theses is prevalent.^[6]

Zheng Dongmei and Li Yulin (2018) believed that the main reasons for the improvement of the plagiarism of graduation these were the pressing time, insufficient attention, lack of scientific research ability, lack of responsibility of tutors and lax school supervision.^[7]

Guo Changli et al. (2013) aimed at the problem of plagiarism of undergraduate graduation thesis, proposed using the detection system of plagiarism to reduce the rate of students' plagiarism.^[8] This method really has a good effect. Some students who plagiarize seriously are punished according to the school regulations. However, this detection method cannot solve the serious problem of sale of the current undergraduate thesis, nor can it solve the problem of "sharing".

3.3 On the Evaluation of Dissertation Papers

Ma Yiwei et al. (2017) believed that the undergraduate graduation thesis should establish a set of evaluation criteria system aiming at improving the quality, problem-solving orientation, and selecting the evaluation criteria for the evaluation of teachers, so as to improve the quality of university graduation thesis.^[9] The significance of this view lies in putting forward the standard system of graduation thesis evaluation from three perspectives, but its practicability needs to be strengthened when it comes to the evaluation of graduation thesis.

Xiao Huaqing et al. (2017) in view of the inequity and injustice in the evaluation of provincial excellent papers in Hubei Province, put forward the method that all the evaluation work is anonymously evaluated by experts outside the school, in order to ensure the quality of the evaluation.^[10] This method plays an important role in guaranteeing the fairness and impartiality of the evaluation of excellent papers. However, if this method is applied to undergraduate thesis, the drawbacks are obvious: After all, expert review is not the whole work of graduation thesis, and it will bring other inconveniences if all undergraduate graduation thesis is handed over to external auditors.

These explorations by Chinese scholars have positive reference for improving the quality of undergraduate thesis, cracking down on thesis plagiarism, and realizing the fairness and impartiality of evaluation. However, there are still many defects in these theories: Firstly, the process

management is not well reflected. Secondly, the fairness and impartiality of paper review need further improvement. Thirdly, in the literature I consulted, there are no effective solutions to solve the problems of sale, proxy, cheating and fraud, and "sharing" of undergraduate thesis. Therefore, it is necessary to further discuss the graduation thesis of Applied Economics and management undergraduates.

4. “Black Box Operation” should be used throughout the Whole Process of Graduation Thesis Management

The most important reason why the quality of graduation thesis of applied undergraduate economics and management is worrying is that the management process is neglected. In order to solve the above problems, we must improve the procedure management and deepen the paper management to every detail. In the management of defense procedures, the quality of papers should be checked at different levels: First of all, the instructor must agree to let the students submit their papers for examination. After passing the test, it can enter the external audit or cross-review. Only after the review has passed can the defense be answered. Only after the defense is passed can it be considered as the passage of the paper and the comprehensive score be given. Simply put, in order to improve the quality of graduation thesis of applied undergraduate economics and management in an all-round way and solve the above problems, we must use "black box operation" throughout the whole process of graduation thesis management.

In the past, the process management of graduation thesis analysis was usually confined to the topic selection, opening report, thesis writing and thesis defense, and neglected the post-management of graduation thesis defense. The whole process management includes all the work related to the graduation thesis, which should not only be managed by a special person, but also be participated by all the instructors. The main meaning of "black box operation" in this paper is to evaluate the fairness and impartiality of the work, in the whole process of graduation thesis work, we should avoid leaking any unnecessary information as far as possible; just like working in the black box. Specifically, in the two-way choice of the tutor, the tutor only knows which students have chosen themselves, and the selection situation is neither announced to other teachers nor to students. Students are not allowed to disclose any information about themselves and their tutors (such as student name, student number, tutor's name, professional title, position, etc.) when answering questions, cross-examination/external examination and thesis reply. Only the title of the thesis and the code given by the teacher responsible for the thesis are distinguished among different students. Respondent group information is also published only half an hour before the reply. The whole process of graduation thesis work, except that students and their instructors know each other, no one knows who is who, just like working in a black box.

The essence of "black box operation" lies in the two-way anonymity of the whole work process of graduation thesis, but this does not mean that all information is not disclosed after the completion of the defense. On the contrary, all information should be made public after the defense is completed. As far as teachers are concerned, this information includes the scores given by the instructors to their students, the scores given to the students who are cross-evaluated, and the scores given in the defense of their papers. As far as students are concerned, who is the instructor and who is the cross-evaluation teacher, and how many marks they give to the paper? And in the process of answering, what are the teachers and what are the students' achievements? The publication of these information will also have a certain role in supervising the evaluation and grading of teachers. This kind of operation ensures the fairness and fairness of graduation thesis evaluation as far as possible. Specifically, these tasks include the following links:

4.1 Two-way Choice of Graduation Thesis Guidance

In the process of selecting tutors and graduation thesis tutors, the selected tutors should determine the upper limit of the number of students they want to bring according to their actual situation, and the research field and direction of the tutor should be transmitted to the students. According to this information and the usual understanding of teachers, students choose their own

tutors. The number of students instructed by teachers should not be equalitarian, and we should pay attention to students' feelings, and decide the number of students' teachers should take according to whether teachers have the ability, time and willingness to spend time guiding students' graduation thesis. Some systems that are not conducive to improving the quality of graduation theses must be amended or abolished. Only in this way can we be responsible for students' graduation thesis work and students' work. Conditional majors, in the selection of tutors, can consider school-enterprise cooperation.

After the two-way choice between the instructor and the students, the number of students who choose each teacher can be announced, but the specific selection situation is not disclosed. This is the beginning of "black box operation" of graduation thesis.

The tutorial responsibility system should be implemented. If a student's graduation thesis is not well written and the passing rate of the student's graduation thesis is too low, the tutor must bear the corresponding responsibility. We need to find out if the tutor really spends enough time on the student's graduation thesis.

4.2 Topic Selection and Topic Change of Graduation Thesis

Graduation thesis topics can be selected by teachers, students and school-enterprise cooperation and other methods. When the students have chosen the topics to be studied, they should number the topics, then remove all information except the title and its number, and submit them to the instructors for review, so that they can give their opinions on all topics. Then, after synthesizing the opinions of the instructors, the information is fed back to the students and their instructors. According to the feedback information, the students and their instructors determine whether and how to modify the topic of the paper. As the instructors in examining all students' graduation thesis topics, only the title and its number can be seen, which guarantees the objectivity of the instructors' opinions.

After answering the opening report, the students can revise the title of their graduation thesis according to the comments of the reviewing teacher at the time of the opening report. When the questions are answered and the title of the graduation thesis is determined, in principle, it is not allowed to change the title of the graduation thesis whose content span is too large. If you really need to change the title of your graduation thesis, you can submit an application for change according to the prescribed procedure, and after completing the replacement approval procedure, students can start writing. For the graduation thesis which has not completed the replacement procedure or has not approved the replacement of the title, the graduation thesis reply shall not be arranged.

4.3 Responding to the Opening Report

In order to ensure the objectivity and fairness of the evaluation work, no information from the tutors and students is allowed in the course of the examination report, the examination, the cross-examination/external examination and the thesis defense. Students are not allowed to reply in their tutor's group. The order of reply may be decided by drawing lots. If the order of reply is not decided by drawing lots, the student's reply with the same tutor should avoid continuity as far as possible.

The Reply of the opening report mainly examines whether the topic of the graduation thesis is meaningful, whether the research project is feasible, whether the difficulty of the topic is moderate, and whether the students have conscientiously done the relevant work when choosing the topic of the graduation thesis. A meaningful and moderately difficult topic can not only reduce the possibility of changing the topic, but also increase the desire of students to write independently.

After the opening report is passed, the students should sign the letter of honesty and credit in the writing process. Students must promise not to forge data, cheat, buy or sell papers, or seek an agent in the writing process.

4.4 Examination in the Writing Process

Writing process should be checked according to schedule, mainly by tutors, supplemented by

professional spot checks. This process mainly checks the progress of graduation thesis, whether there are any difficulties in the writing process that need to be solved, the next step plan, etc. If there are questionnaires, the investigation work should also be checked. In the process of writing inspection, students should submit "rough" papers and report on the progress of the current work, so as to guide teachers to check and guide.

4.5 Instructor's Review

After completing the graduation thesis, the students must be allowed to participate in the defense with the consent of the instructor, and after evaluating and grading the thesis, they can enter the testing procedure. This is done for two purposes: First, in order to prevent unqualified graduation papers from entering the cross-evaluation process, increase the workload of cross-evaluation and thesis defense; Secondly, it can prevent the following situations from happening: A student's graduation thesis is OK, but there is still a long way to go from the excellent graduation thesis. Although the teachers give higher scores than the paper should be given in the defense and cross-examination, they still fail to meet the standard of excellent graduation thesis. At this time, the instructor in order to make such a graduation thesis evaluation of excellent graduation thesis, it is possible to give him a very high score. If the follow-up work is not properly handled, it may lead to the original very general thesis, become an excellent graduation thesis.

4.6 Graduation Thesis Detection and Cross-evaluation/External Audit

Before submitting the examination of graduation thesis, students must sign the letter of promise of honesty in the content of graduation thesis (the letter of promise of honesty in graduation thesis can also be signed before the opening report). Students must promise that their papers are written by themselves, and there is no such behavior as fraud, papers buying, selling, ghostwriting, sharing, etc. Those who have not signed the letter of promise of good faith will not be sent for testing, and no third-party review (or cross-review) will be arranged, of course, no reply will be arranged. Only after the examination of graduation thesis has passed can the third party be arranged for evaluation.

If conditions permit, the third-party evaluation of graduation thesis can be conducted by teachers of the same or similar specialties in other schools. If there is no condition to send it to the external auditor, it can be assessed by cross-evaluation. In order to ensure the fairness and impartiality of the evaluation and prevent students from cheating at this stage, three points need to be paid attention to:

4.6.1 Anonymity

Graduation papers submitted to cross-evaluation teachers for review are not allowed to contain any information about the students and their supervisors, otherwise they will be disqualified. In order to distinguish students' graduation papers conveniently, each paper can be coded. The evaluation teacher only graded the graduation thesis, without worrying about who to grade and who to guide the students. Students (including thesis instructors) don't know which reviewing teacher reviews their papers, and cross-reviewing teachers don't know whose graduation they are reviewing, and don't know who their instructors are. Only the title of the paper or the code representing the paper is identified.

4.6.2 Sameness

The checked version of the paper and the cross-review/external review version must be the same version. Specific practice can be submitted to a special person in charge of graduation thesis, by which students' graduation thesis submitted for testing, while completely anonymous graduation thesis will be allocated to third-party evaluation teachers for evaluation. The purpose of doing this is to prevent students from cheating in the examination of papers.

4.6.3 Normalization

Graduation thesis cross-evaluation/external audit content and grading requirements are standardized. In the process of evaluation, special attention should be paid to the following aspects:

- (1) Examination of Cheating and Forgery in Graduation Thesis: Examine whether the graduation

thesis should be replaced by screenshots of the original text, whether the sentence is not smooth in a large area, whether the data source and its processing are fraudulent.

(2) Examination of Logical Structure of Graduation Thesis: The logical structure reflects the thinking of the graduation thesis writers, is the basis of the content arrangement of graduation thesis, and has a significant impact on the quality of graduation thesis.

(3) Graduation thesis Format Check: It is not a question of ability, but of attitude that the format of graduation thesis is not standardized.

(4) Examination of Graduation Thesis Content: The content of the paper covers a wide range. In order to ensure that the judges have enough time to hear, it is recommended that the paper and electronic papers be submitted to the judges at least seven days before the defense.

(5) Comprehensive Evaluation and Grading of Graduation Thesis: According to the comprehensive examination of the students' graduation thesis, an objective and impartial comprehensive evaluation is given. Suggestions for revision of the students' graduation thesis are put forward, and the quality of the graduation thesis is graded.

In the process of graduation thesis evaluation, if there are cheating or fraudulent behavior, serious errors or confusion in logic structure, serious irregularities in format, serious errors or improper contents, these papers should be disqualified.

The purpose of this is to ensure the quality requirements of papers and the fairness of cross-evaluation/external audit, and to prevent students from cheating and data fraud in the examination of papers. The ability to identify data fraud needs to be assessed over time.

After submitting the test graduation thesis, it is not allowed to revise the graduation thesis in principle. If it really needs to be revised, it must be marked in the place where it is revised to explain the reasons for the modification. If a relatively large number of amendments have been made, when the "repetition rate + the proportion of revision in graduation thesis testing" reaches the upper limit of the repetition rate stipulated by the school, a written application should be submitted and the papers that have been substantially revised should be re-examined. The reason for this is to prevent some students from cheating and using plagiarized papers to fool their defense.

Only after the graduation thesis evaluation has been passed, can they enter the defense procedure.

4.7 Graduation Thesis Defense

Graduation thesis evaluation and grading usually consists of three parts: tutor evaluation, third-party evaluation and graduation thesis defense. The defense of graduation thesis is one of the most important links in the whole work of graduation thesis. In this process, standardizing the scoring rules is also very important but easy to be ignored. We often see this phenomenon: A student's graduation thesis was well written, but was eventually rejected, or very good papers were scored very low. The reason for rejection or low grade is that the title of the paper is not appropriate. However, it has been verified that the title of this paper has been passed at the time of answering the questions. Although this situation often occurs, it should not occur, because if the opening reply has been passed, when the graduation thesis is answered, the topic should no longer be a problem. Therefore, it is necessary to set the scoring criteria for the reply. In addition, we need to pay attention to the following aspects:

4.7.1 Comprehensive Review of Contents

In the process of defense, the defense teacher should not only check whether the paper format is correct, whether the logical structure is reasonable, and whether the title and content are consistent. At the same time, he should also put forward different questions for different papers. He should examine the writing process, content, methods and data sources of the papers. According to these questions, we can know the students' mastery of knowledge, and pay attention to whether there are suspicions of proxy and forgery.

4.7.2 Strict Anonymous Review

Strict anonymous reviews are carried out, and no information about tutors and students is

allowed to appear anywhere in the review process. The version submitted in the graduation thesis defense should be basically the same as the version tested in the thesis. Only the code assigned by the person in charge of the graduation thesis represents the graduation thesis.

4.7.3 Fairness and Justice of Evaluation

According to the examination of students' graduation thesis, fair and impartial evaluation should be given. Graduation thesis should set a minimum quality standard to prevent the quality from declining. Those who fail to meet this standard should not be passed.

4.8 Further Revision of Graduation Thesis

The end of the thesis defense does not mean that the graduation thesis has been perfect, let alone the end of the graduation thesis work. In order to improve the quality of graduation thesis, students should synthesize the opinions of cross-evaluation/external auditing teachers and the suggestions put forward by the responding teachers, consult the instructor and revise them repeatedly to a certain extent in order to improve the quality of graduation thesis.

4.9 Second Check-up of Papers after Defense

Many teachers think that it is very difficult to find out the sale, ghostwriting and sharing of graduation thesis, because the duplication of graduation thesis has passed, and you can't know whether the graduation thesis is written by the students themselves. In order to deal with the problems of graduation thesis sales, ghostwriting on behalf of others and sharing, it is necessary to report to students and writing agencies. But it's very difficult.

This view ignores a problem: Institutions or individuals buy and sell graduation theses to make money. They usually buy a graduation thesis more expensive, but students are willing to buy it at a lower price. To make money, they have to sell the same paper many times. Therefore, there must be a high repetition rate of Graduation Theses of the same graduates from different schools. Therefore, when all undergraduate graduation theses in the country are submitted to the database of undergraduate graduation theses, and then re-checked, you can make the sale, "sharing" and a pair of multi-generation papers nowhere to hide. In addition to canceling the diploma and diploma certificates already issued, those who plagiarize, buy, sell, write and share their papers should be included in the credit information system and notified to their employers.

4.10 Further Explanation on Revision and Duplication of Graduation Thesis

In order to improve the quality of graduation thesis, we should encourage the revision of graduation thesis. Moreover, the repeated revision of graduation thesis is also a rigorous academic attitude, which should be encouraged. However, after submitting the test, modifications are also allowed, which will allow some students with ulterior motives to drill holes. Therefore, it is necessary to supervise the graduation thesis which is still revised after passing the test. There are four ways to submit a reply to a graduation thesis after passing the test:

The first method is to print the paper graduation thesis by the school instead of the students themselves and submit it to the defense team. This method is helpful to prevent students from replying with plagiarized papers after their papers pass the test. The disadvantage is that after passing the test, students can no longer modify their graduation thesis, which is not conducive to improving the quality of graduation thesis.

The second method is that students can print their graduation thesis and submit it to the defense team, but the school must print at least one copy to facilitate comparison with the version printed by students. Students can make minor revisions to their thesis, but when revising their graduation thesis, they must specify the reasons for the revision. If a large number of amendments have been made, when the "paper repetition rate + the percentage of paper revision in the article" reaches the upper limit allowed by the school, it should be re-checked and passed before the defense can be allowed. For those who have made considerable modifications but do not specify them, students' behavior should be criticized and educated according to their situation, and only after repeated checks can they be allowed to participate in the defense.

The advantage of this method is to improve the quality of students' graduation thesis, but the process management will be more cumbersome.

The third way is that students can modify it freely, but at the end of the day they have to check it again. In this way, we must pay attention to the coherence before and after revision. If the revised papers are far from the papers submitted before, we must find out the reasons. The biggest advantage of this method is to improve the quality of students' graduation thesis, and the biggest disadvantage is that supervision will be very difficult.

The fourth way is that students' graduation thesis should be glued after their supervisor's evaluation, testing and evaluation. The students' defense can only be arranged after finishing their graduation thesis. This approach has comparatively similar advantages and disadvantages to the first one. But in this way, students are more unable to modify and improve their graduation thesis.

For graduation theses that fail to pass the defense, they should be instructed to revise them substantially, and they must check twice before the next defense. Only after the second defense is passed, can they be allowed to participate in the second defense.

The whole process management of "black box operation" can greatly improve the quality of graduation thesis of economics and management, and solve the problems mentioned above. This has been proved repeatedly in our practice.

5. Summary and Prospect

From the point of view of the working process of graduation thesis of Applied Undergraduate in economics and management, this paper ponders on the work of graduation thesis and puts forward some opinions.

Graduation thesis work is very meticulous and tedious. In order to improve the quality of graduation thesis of applied undergraduate economics and management, every detail of graduation thesis work should be strictly managed. We should establish a complete and scientific management system and evaluation system, implement the whole process management, and implement a strict anonymous evaluation system. For those who sell and buy, write or share graduation papers, they should be included in the credit information system, announce their dishonest behavior online, revoke their diplomas and diplomas, and notify their employers. Those who have been admitted to the civil service or public institutions must be dismissed from public service. For graduate students, they must be disqualified from continuing their studies and are not allowed to take another exam within three years. For those who have been admitted to graduate school and have obtained their diplomas, their graduate diplomas should also be revoked.

The instructor must emphasize to the students the correct style of study, oppose academic corruption, and set an example. Teachers suspected of dealing in essays and writing on behalf of others are resolutely dismissed from public office in accordance with the spirit of the Ministry of Education upon verification. For students suspected of academic corruption, if the instructor has not emphasized it, the instructor must be held accountable for his irresponsibility. In addition, the thesis instructors and evaluation teachers should constantly improve their professional quality and personality.

In addition, must enhance students' integrity awareness, let students realize the graduation thesis trading, generation of ghostwriting, cheating, "sharing" and other corruption caused by the consequences of the seriousness, sign a good graduation thesis integrity commitment.

If we pay attention to every detail and carry out the whole process management of graduation thesis, the quality of thesis will be greatly improved. If we implement the maximum anonymity system in the evaluation of graduation thesis, and do not disclose unnecessary information as much as possible in the form of "black box operation", we can be as fair and impartial as possible in the evaluation. If we adopt the method of double checking, there will be no place to hide from plagiarism, sale, one-to-many proxy writing and "sharing". Only by implementing the whole process management of graduation thesis and minimizing unnecessary information leakage in this process can the quality of graduation thesis be improved and the fairness and impartiality of thesis evaluation be realized. The fairness and impartiality of the evaluation also contribute to the

improvement of the quality of papers.

In fact, the whole process of graduation thesis work is also a relatively complex dynamic game process, which is easy to fall into "prisoner's dilemma".^[11] The ultimate trend may be that students are perfunctory about their graduation theses, and the quality of their theses is getting worse and worse. In the process of graduation thesis work, students must know and become three "iron facts": First, if you don't write your graduation thesis properly, the quality of the thesis will be difficult to meet the graduation requirements, and you will not be able to graduate. Secondly, if they are fooled by improper means such as selling, ghostwriting, plagiarizing, sharing and forging papers, they will inevitably bear serious consequences. Thirdly, no matter who you are or who you choose to be the instructor, the paper review will never be unfair. Through word-of-mouth transmission, students gradually formed such a climate, graduation thesis quality will gradually improve.

Graduation thesis involves a wide range of work, even including writing training before the beginning of the thesis. Due to my limited level and space, this paper is only my understanding of graduation thesis work in many years of practical work. There are still many shortcomings, such as lack of detailed discussion on the whole process management of graduation thesis, lack of a system, and lack of systematic discussion on the corresponding management system and its reward and punishment system.

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