



## PROBLEMS FACING GRADUATE STUDENTS IN THE PREPARATION OF SCIENTIFIC RESEARCH AT THE FACULTY OF AGRICULTURE AND FORESTRY UNIVERSITY OF MOSUL, IRAQ

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### Abstract

The Search Aims to identify the most important problems facing the graduate students in the preparation of scientific research, Faculty of Agriculture and forests, Mosul University in general and identify problem areas facing the graduate students in the preparation of scientific research and arrange each paragraph of each of the problem areas facing the graduate students in the preparation of scientific research by its priorities, finding individual differences between the problems facing the graduate students and some variables, represented by (Gender, Age, Qualification, a full-time to study, type acceptance, cumulative GPA). In order to get a data on research and adopted the questionnaire composed of three parts : the first part regard to personal information , educational and graduate students in the Faculty of Agriculture and forests, Mosul University, second part consisting of several paragraphs of the measure the problems facing the graduate students in the preparation of scientific research by (52) paragraph distributed by several areas which the field of the problems academic and consisted of (20) paragraph and scope of socio-economic problems composed of (8) paragraphs of the scope of psychological problems and consisted of (9) paragraphs and finally the field of technical problems (scientific and knowledge) consisted of (15) paragraph of the most important proposals to over come the problems facing the graduate students when preparing them scientific research .After make sure of honesty Virtual the questionnaire was measured stability in away alpha-cronbach. The reliability coefficient (0,90) included Find all graduate students in the Faculty of Agriculture, Mosul University for the academic year 2018-2019 totaling (116) students distributors on the Department s all totaling (10) sections except for Agricultural Economics Department. The results showed that the majority of graduate students were the level of their problems that suffer in the preparation of scientific research is the average tends to rise , also showed that the field of the problems academic ranked first of the rest of the other areas with an average My Account reached (56,489) as well as the absence of significant differences at 0,05 between the problems facing the graduate students and the variables of(gender, type acceptance, Qualification, as amended by the cumulative) while showed significant differences at the level (0,05) between the problems facing the graduate students and the variables (type acceptance and full-time to study) and recommendations of the most important work on the provision of material support for graduate students , including the allocation of allocations for a monthly each student a private students non-workers and development of the work of libraries and provide them with references, books, modern Arab them and foreign.

**Keywords :** Agriculture, problems, scientific research, forestry.

### Introduction

Since the beginning of life, it has been proven to the societies that the pillar of development and the cornerstone of which is education, so it worked to transfer science and attention to pass it on to generations until the order of education and the transfer and development of science became an obsession for all current societies to invest in the human mind, which is a tremendous wealth of the country. Modern universities also have the task of developing society through research that addresses the problems and obstacles that stand in the way of the development and continuous development of its students, professors and researchers with its ideas in the field of cognitive and technical development (Al-Khoiti, 2016). All research in the field of education, although important, is still few and unfocused, so it is necessary to highlight the focus of the educational process, i.e. students and investigate their problems in the relevant universities and develop appropriate solutions to these problems (Al-Shammari, 2007). Since the university is one of the most important educational institutions that embrace sexist people, as it plays a complementary role to the role of society, it works to establish information and acquire students scientific and practical experience, and develop sought many skills that work on their success in their working lives and which increase the Their ability to apply the information they have gained and enable them to deal with life in logical and objective ways (Al-Sharman, 2010).

The university represents the society, as it was not created in a vacuum, but it was created as a result of the needs felt by the people of society and the thought leaders in it, the university is an intellectual center that cares about knowledge and is the factory that secures the need of the country of qualified human resources necessary to advance the wheel of development and progress (Taraf, 2003). At present, he faces several challenges and variables that require a review of his goals, philosophy, organizations, methods and relationship with the society to which he belongs. Facing university education not only stops when solving its present problems, but extends to face the problems of the future, the graduate stage must aim to achieve the following goals from the point of view of (Smart, 1991).

Understand scientific research and participate in it. Developing the abilities of learners and identifying and deepening their knowledge. Creating a spirit of cooperation and teamwork between students. Training students in systematic research, production and employment of knowledge. Achieving the necessary efficiency to work in the field of scientific research.

For a long time, different societies have faced many social, economic, educational, political and other problems. It always seeks to solve it and tries seriously to find the appropriate solutions that stand in the way of these problems, or contribute to reducing them (Shahwan, 2005). Universities are one of the most important institutions that contribute to

solving many problems within society, because of the many functions they have to work with the aim of building the society and developing it by providing qualified and specialized human resources, and by carrying out theoretical and applied scientific research that contributes In the advancement of society and the resolution of its problems, as well as its role in providing advice to the members of the society and its various institutions (Moroccan, 2016). Universities are characterized by their important role because they contain scientifically distinct human energy sources and are able to interact and deal positively with all new developments and variables and keep up with scientific and practical developments (Kazim, 2015). Scientific research, and community service, where scientific research is considered a key teacher in the university to contribute to the development of knowledge and development and to reach various solutions to various problems (Anderson, 1999). The acceleration and explosion of knowledge at the moment and the response to the challenges of openness and globalization require radical changes in higher education to provide the community with well-qualified cards (Halima, 2012). Scientific research is not only a financial handicap, but there are many obstacles that hinder its way towards achieving its goals and of these obstacles facing the graduate student when preparing his research that the institutions of work are still below the required level and still scientific research in many of its sources is a burden on the student of studies For lack of so much resources for his achievement, In light of this research came to diagnose to us the problems faced by graduate students when preparing scientific research as well as the weakness of their skills in the field of research and the existence of problems related to the supervisors of scientific messages as well as the nature of the courses taught in each course, which invited the researcher to study this problem.

### The importance of research

Lies in the following points:

- It represents a response to the urgent need and a real problem facing graduate students in field research for students of the Faculty of Agriculture and Forestry and all its departments.
- This research deals in a selected educational stage, namely master' and doctoral and diploma, in which researchers are trained in methods of scientific research, which are the basis for later stages of study, which are the academic cadres that lead the renaissance of society.
- The results of the research in the department and the deanship of the college to take appropriate measures to solve these problems.

### Research Objectives

- Preparation of scientific research at the Faculty of Agriculture and Forestry, Mosul University in general.
- Identifying the areas of problems facing graduate students in the preparation of scientific research at the Faculty of Agriculture and Forestry, Mosul University and arranging them according to their importance.
- Determining the relative importance of each paragraph from each of the areas of problems facing graduate students in the preparation of scientific research at the Faculty of Agriculture and Forestry, Mosul University and arranging them according to its priorities.
- Find individual differences between the problems you face Graduate students and some variables are (sex, age,

scientific qualification, full-time study, type of admission, scientific department).

- Identify the most important proposals for graduate medicine to overcome problems when conducting scientific research.

### Materials and Methods

The research included all the graduate students in the Faculty of Agriculture and Forestry / Mosul University for the academic year 2018-2019, numbering (116) students distributed in all sections of the college and numbering (9) scientific sections (except the department of economics) and after the exclusion of (20) students for the sample of stability the number of students (96) students and they are the final research sample. For the purpose of collecting data, a questionnaire was prepared consisting of three parts, the first part relates to the personal and educational information of the researchers represented (for sex, age, scientific qualification, full-time study, type of admission, cumulative rate), and the second part is one of several paragraphs of the most important problems that Graduate students face in the preparation of scientific research by (52) paragraphs and divided into several areas, (field of academic problems) consisted of (20) paragraphs, (field of social and cultural problems) consisted of (8) paragraphs, (field of psychological problems) and formed From (9) paragraphs, (and the field of technical problems (scientific and knowledge)) and consisted of (15) paragraphs, while the third part consists of (15) paragraphs of the most important topics to overcome the problems faced by graduate students when preparing scientific research. These paragraphs were prepared after reviewing previous researches and studies related to the topic as well as by asking the researcher about the problems suffered during the study period and after completing the form in its initial form presented to a group of experts to confirm the apparent honesty and the sincerity of the content of paragraphs Questionnaire In order to establish the validity of the vertebrae, a sample of (20) students for the stability sample was taken from the final sample and the Alpha-Kronbach method was used to find stability, where the value of stability (0.88) was very good value for the stability of the scale. Alternatives have been developed to measure the problems: There are a large degree, there is a medium, there is a low degree, there are no problems) where digital codes of these alternatives (1,2,3,4) respectively, but alternatives to answer the most important proposals to overcome the problems faced by graduate students when preparing scientific research are (ok, neutral, disagree) Digital codes for these alternatives (1,2,3) have been given respectively. The most important statistical methods used in the research were repetitions, percentages, percentages, T-test and ANOVA single variance analysis, and analysis was done using SPSS.

### Results and Discussion

**First:** Identify the problems faced by graduate students in the preparation of scientific research at the Faculty of Agriculture and Forestry, Mosul University in general.

To achieve this goal, the highest digital value obtained by the researchers and expressing the problems suffered by the researchers is (168), and the lowest digital value obtained by the researchers amounted to (110), and the range and length of the category was used as described in table number (1).

**Table 1 :** Shows the problems that graduate students face when preparing scientific research in general

Problems	Number	Percentage
(110-129) few	12	12.5
(130-149) Medium	58	60.416
(150 and over) large	26	27.083
Total	96	99.999

The results presented in table (1) show that the problems faced by graduate students when preparing scientific research is moderate and tends to rise by a percentage of (87%) From the sample of research, the reason for this is that graduate students urgently need good research, statistical, linguistic, cultural and computer courses in order to face the difficulties they face when preparing scientific research, as well as the lack of accurate and modern resources and information and materials necessary to conduct the research. Both scientific in his field of specialization have

become one of the obstacles preventing the completion of Conducting searches.

**Second:** Identifying the areas of problems faced by graduate students when preparing scientific research at the Faculty of Agriculture and Forestry, Mosul University and arranging them according to their importance.

To achieve this goal, the arithmetic average of each area of problems was used and arranged according to their importance as described in table (2).

**Table 2 :** Shows the identification of areas and their order according to their importance

Sl.	Areas	Average arithmetic	Rank
1-	The field of academic problems	56.489	1
2-	The area of social and economic problems	23.697	4
3-	The field of psychological problems	24.708	3
4-	Field of technical problems (scientific and knowledge)	42.104	2

It is clear from the results presented in table (2) that the field of academic problems won first place with a mathematical average of (56,489), due to the poor understanding of many students for research and subjects and their preoccupation with the content of the scientific subject only to get success without the scientific benefit of it And the weakness of the motivation of some students for scientific subjects due to the traditional methods of presentation of the lecture and the lack of use of modern educational methods, as well as face the problem of lack of knowledge of the research curriculum In addition to the weakness of their research skills and if they studied a number of research methods because their study is not based on their actual skills to do such

research, most of their study is a theory focused on the cognitive side without application and therefore came in first place, while the field of social and economic problems In last place with an average account of (23,697).

**Third:** Determining the relative importance of each paragraph from each of the areas of problems facing graduate students at the Faculty of Agriculture and Forestry, Mosul University and arranging them according to their priorities.

To achieve this goal, the arithmetic average was used for each paragraph of each area of research and arranged for its priorities, as described in Table 3.

**Table 3 :** Order of each paragraph from each search area

Sl.	The Field of Academic Problems	Average Arithmetic	Rank
1-	Low exposure to research activities before studying or during studies (courses)	3.250	3
2-	Poor harmony between the quantity of the material and the time period allocated to it	2.416	17
3-	Repetition in some of the vocabulary of courses in more than one subject	3.322	2
4-	Lack of balance between theoretical and applied aspect of scientific materials	2.729	13
5-	Scarcity of scientific seminars for specialized professors	2.989	8
6-	Some lecturers rely on traditional methods when explaining the lecture	3.145	5
7-	Underperformance of some academic lecturers	2.927	9
8-	Symptoms of some faculty members from providing assistance to students	2.864	11
9-	Poor cooperation between the graduate supervisor and students	2.614	16
10-	Poor achievement level for many graduate students	2.218	19
11-	Limited scientific messages, periodicals and references in the field of specialization	2.708	14
12-	Difficulty convincing professors specialized in the subject of research	3.177	4
13-	Difficulty in obtaining documents related to the subject matter of the research from the relevant authorities	2.354	18
14-	Choosing a problem that is bigger than the researcher's abilities	2.916	10
15-	Lack of modern references and periodicals by libraries in general	2.114	20
16-	Indifference on the part of sample members towards the application of resolution	3.343	1

17-	Lack of assistance in preparing the research plan from the specialist teachers in the department	3.083	6
18-	Ambiguity of some concepts related to the subject of research which affected the design of the research tools	3.020	7
19-	Difficulty contacting specialist professors to ensure the authenticity of the content of the study tools	2.822	12
20-	Lack of accurate statistics from the study community for the sample	2.687	15
<b>Sl.</b>	<b>The Area of Social and Economic Problems</b>	<b>Average Arithmetic</b>	<b>Rank</b>
1-	Poor attention to the social and economic problems experienced by some students	3.104	4
2-	Lack of consideration of the characteristics of dealing with students of studies by the administration	2.625	8
3-	Higher graduate tuition fees	3.114	3
4-	High prices of books and references	2.917	5
5-	Scarcity of university financial support for graduate students	2.739	7
6-	High costs of previous foreign studies and translation	3.348	1
7-	High costs of preparing messages and frameworks	3.145	2
8-	Student's work and what may lead to his or her preoccupation with research	2.927	6
<b>Sl.</b>	<b>The Field of Psychological Problems</b>	<b>Average arithmetic</b>	<b>Rank</b>
1-	Fear of not completing certification requirements	2.843	4.5
2-	Anxiety as the debate approaches	2.604	7
3-	Poor motivation to study after postgraduate admission	2.218	8
4-	Poor motivation to study after success in the theoretical course	2.708	6
5-	Feeling quick to forget information and ideas	2.125	9
6-	Feeling poorly focused for study	3.020	3
7-	Psychological stress caused by the security situation	3.052	2
8-	Concern about the future of the scarcity of jobs and the large number of graduates	3.291	1
9-	Difficulty adapting to the academic situation within the university	2.843	4.5
<b>Sl.</b>	<b>Field of Technical Problems (Scientific and Knowledge)</b>	<b>Average arithmetic</b>	<b>Rank</b>
1-	Weakness in the use of appropriate statistical methods	2.656	10
2-	Weak classification of scientific research	3.104	1.5
3-	Lack of experience in preparing the search tool	2.614	13
4-	Lack of experience in interpreting and analysing results	2.572	14
5-	Lack of experience in using the Internet in search	2.197	15
6-	Lack of experience in preparing the search plan Proposal	3.083	3
7-	Lack of experience in determining the title of the search	2.968	6
8-	Lack of skill to write abstract research summary	2.812	8.5
9-	Poor knowledge of good search specifications	2.979	5
10-	Poor preparation of the introduction to suit the topic Introduction	3.104	1.5
11-	Inability to link search results to previous studies	2.885	7
12-	Lack of knowledge of graduate students in preparing recommendations related to research results	2.812	8.5
13-	The inability of students to integrate different ideas	3.041	4
14-	Inability to comment on the ideas offered	2.625	12
15-	Poor quote from appropriate references to the subject of research	2.645	11

It is clear from the results presented in table (3) that:

- 1) The field of academic problems: the paragraph (lack of references and modern periodicals in general) ranked first with an average account of (3,343), due to the fact that books, references and sources of information are one of the basic elements of research and without which the researcher cannot complete his studies The way of references and periodicals help the student in how to conduct his research and provide him with previous studies similar to the subject of his research, it is considered the main guide when the start of scientific research and because of the wars witnessed by the province and the great neglect of the college library prevented the availability of studies Modernity has caused an important problem for the research sample. While the paragraph (choosing a problem greater than the researcher's abilities) ranked last in the average account of (2,114).
- 2) The field of social and economic problems: the paragraph (scarcity of material support by the university for graduate students) ranked first with an average account of (3,348), due to the lack of financial allocations provided by the university in a large way to the graduate student is a big problem Because many students suffer from lack of money and study requirements need a lot of money has been hindered in

the way of many students especially there are some specialties need to conduct certain experiments and need raw materials and the student may not be able to secure them to complete his research. The paragraph (lack of consideration of the characteristics of dealing with students of studies by the administration) ranked last with an average calculation of (2,625).

- 3) The field of psychological problems: the paragraph (concern about the future because of the scarcity of job opportunities and the number of graduates) ranked first with an average account of (3,291), due to the lack of appointments and lack of work became a concern for graduate students and the concern that concerns many of the Students, especially in recent times, have received higher degrees in various disciplines without employment without employment to win blue, which has become a major problem throughout the country. The paragraph "Feeling quick to forget information and ideas" ranked last by an average My account is 2,125.
- 4) The field of technical problems (scientific and knowledge): my paragraphs (double in the classification of scientific research) and (double the number of the introduction of research in accordance with the topic

Introduction) ranked first and second with a mathematical average of both paragraphs (3,104), The reason for this is that the graduate student suffers from the poor classification of scientific research and not sufficient experience in how to select useful research for him and for his research and there is new research it is difficult for the researcher to obtain similar studies and therefore it is difficult for the student to put a good introduction suitable the subject of his research scientifically. While the paragraph (lack of experience in using the Internet in search) ranked last in the account with a mathematical average of (2,197).

**Fourth:** Finding individual differences between the problems facing graduate students and some of the variables (sex, age, scientific qualification, full-time study, type of admission, scientific department).

To achieve this goal, the T-test was used to identify the individual differences between the problems faced by graduate students when preparing scientific research and the variables (gender, type of admission, full-time study), and other independent variables (age, scientific qualification, gpa). The ANOVA method has been used, as shown in table 4.

**Table 4 :** Shows the results of the T-test and the ANOVA single variance analysis table for the responses of sample members to the problems faced by graduate students when preparing scientific research

Gender	Number	Percentage	Calculated T value	sig
Male	70	72.916	0.995	1.640
Female	26	27.083		
Type of acceptance	Number	Percentage	Calculated T value	sig
Public Channel	73	76.041	0.093	0.762
Private Channel	23	23.958		
Full-time study	Number	Percentage	Calculated T value	sig
Free	20	20.833	1.922*	0.074
Part-time	76	76.166		
Age	Number	Percentage	Calculated F value	sig
(26 - 37) years	67	69.791	3.687*	0.013
(38 - 49)years	28	29.167		
(50 years and more)	1	1.041		
Scientific qualification	Number	Percentage	Calculated F value	sig
Master	57	59.375	0.285	0.594
Ph.D.	25	26.041		
Diploma	14	14.583		
Cumulative rate	Number	Percentage	Calculated F value	sig
Less than 70	8	8.333	0.157	0.898
(70 - 80)	69	71.875		
Higher than 80	19	19.791		

The results in table (4) showed no moral differences at the level of (0.05) in the problems faced by graduate students in the preparation of scientific research at the Faculty of Agriculture and Forestry due to the following variables (sex, type of acceptance, scientific qualification, and cumulative rate), while the presence of moral differences was shown At a level (0.05) In the problems faced by graduate students when preparing scientific research is due to the following variables (full-time study, age), because age is an important variable for the problems faced by researchers when preparing scientific research, every period of life of the human there are many problems that face In addition to his study and research problems, they have a lot of burdens of life, especially young people, they have to work to provide the requirements of family life with a commitment to complete their studies according to the specified period for

each student. As for the full-time study, it turns out that the number of part-time students is more than the number of full-time students only for their studies and completion of their scientific research, i.e. most of the researchers have a lot of work to get money to secure life, as well as there are those who are employees in government departments and have the task of performing their job. Therefore, they will face many difficulties and problems to complete their scientific research and affect the results of scientific research.

**Fifth:** Identify the most important proposals for graduate medicine to overcome problems when conducting scientific research.

To achieve this goal, the arithmetic average for each paragraph was used for the most important proposals from the point of view of the researchers and their order according to their priorities, as described in table (5).

**Table 5 :** Explains the most important proposals to overcome the problems faced by graduate students when conducting scientific research

Sl.	Paragraphs	Average arithmetic	Rank
1-	Reducing study costs	2.614	9
2-	Providing references and periodicals, especially modern foreign	2.885	5
3-	Provision of financial assistance, loans and grants for research	3.020	3
4-	Providing suitable classrooms for students with educational techniques	3.145	1
5-	Providing employment opportunities for graduate graduates	2.708	7
6-	The need to activate academic control over the supervisors of scientific messages	2.656	8
7-	Taking into account the material situation of the students of the studies when choosing the subject of the letter	2.979	4
8-	Interest in specializing in the distribution of supervision and not on the basis of quotas in the scientific department	2.812	6
9-	Attention to providing full facilities for the research student to conduct research outside the college	3.041	2
10-	Focus on practicality rather than theoretical lessons in the course stage	2.083	10

It is clear from the results presented in table (5) that the paragraph (providing appropriate rooms for students of studies with the provision of educational techniques) on the first place with a mathematical average of (3,145), due to the fact that there is no special room for graduate students large and arranged and contains seats and computers and provide Internet has it so that the student of scientific research can sit in it Or write his research and this plays a big role in the stability of the student that he has a place where he can be when writing or when benefiting between the students themselves in a subject. As for the paragraph (focus on practicality more than theoretical lessons in the course stage) on the last place with a mathematical average of (2,083).

### Conclusions

- We conclude from the research that the circumstances surrounding graduate students play a big role in the emergence of many problems including the lack of modern sources and the lack of internet availability and a special hall for students of studies as well as the lack of material support to conduct research that needs special materials or devices to complete their research.
- We conclude from the research that the lack of availability of services provided to students in the college led to the emergence of problems, especially in the academic aspect.
- We conclude from the research that there is no difference in the answers of graduate students regardless of their gender or type of admission to the study or their scientific qualification or their gpa.
- We conclude from the research that there is a moral difference to the problems experienced by graduate students when conducting scientific research and between their age the older the more students have the problems of studying in order to increase the student's socio-economic burdens in addition to scientific research as well as be completely part-time to study There are a lot of students working alongside their studies.
- 5. The appearance of problems is linked The extent to which students adapt to the reality surrounding it to complete its research as well as the extent to which it adapts to the environmental reality in which it lives.

### Recommendations and Proposals

- Work to provide financial support for graduate students, including the allocation of monthly allowances to each student, especially non-working students.
- Developing the work of libraries and providing them with references and modern Arabic and foreign books.
- Holding many seminars and meetings involving graduate students and professors and the management of the college where academic and administrative problems are presented and all work to provide appropriate solutions to them, which increases the scientific association between students and their professors and their studies in the college.
- Take into account in the distribution of supervision to the students specialization and the ability of the supervisor to supervise and guide the students in his field.
- Training graduate students in practice on the process of searching for information through different sources through a training course at the college given to them before starting research.
- Preparing a research plan that takes into account the needs of the college and the department according to its specialty, in order to prevent the repetition of research and scientific innovation in the field of research.
- Conducting a similar study on a sample of the Faculty of Agriculture in another province to verify the results of the current research.
- Reducing the teaching burden on some teachers supervising graduate students to allow them to read, scientific supervision and continuous communication with their students.
- Subject to postgraduate programs and regulations to evaluate criteria.
- The need to activate academic supervision of teachers in terms of their commitment to the vocabulary of courses they study for students and the extent to which the goals of the course are achieved.

### References

- Halima, Q. (2012). Problems of new students, field study, *Journal of Humanities and Social Sciences*, 7: 90-104.
- Al-Khoiti, M.A. (2016). Problems facing K.K.A. students in the graduate program in Qassim, *Scientific Journal*, 7(8): Saudi Arabia.
- Al-Sharman, M. (2010). Perceptions of graduate students in the faculties of education at The Universities of Motaha and Yarmouk for the problems facing them, *Damascus University Magazine*, 26(4): 527-553.
- Al-Shammari A.B.A. (2007). Obstacles to the preparation and supervision of university messages in Saudi universities and ways to treat them, an unpublished master's thesis, Saudi Arabia.
- Shahwan, A.S. (2005). Educational, academic, cultural and professional problems facing teachers in Gaza governorate, unpublished master's thesis, Faculty of Education, Al-Azhar University, Gaza.
- Taraf, J. (2003). Problems of graduate studies in Syrian universities from the point of view of master's and doctoral students, field study, *Damascus University Journal of Educational Sciences*, 19(1): 237-257.
- Kazem, M.H. (2015). Problems facing students at the Teacher Training Institute in Karbala during the duration of the application, *The People of the House Magazine*, (14): 1 -17.
- Moroccan, A.A.A. (2016). Problems facing students in field research at Um al-Qura University, Unpublished Master's Thesis, Saudi Arabia.
- Anderson, J.R. (1999). *Cognitive psychology and its implications*, W.H free man and company.
- Smart, J.C. (1991). *Higher education Handbook of theory and Research*, VII: New York : Agatha Press.