



Capstone Project Guide

Prepared by Postgraduate Studies and Scientific Research Unit (PSSRU) Faulty of Pharmacy Libyan International Medical University

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1. Objectives:

At the end of the capstone project, students should be able to:

- 1. Learn the different types of research designs and how to use them.
- 2. Apply the research ethics and responsible conduct in research.
- 3. Work collaboratively with other students, using communication skills.
- 4. Demonstrate high knowledge of their research topic and show ability to discuss with experts in the field and to audiences through research presentation.
- 5. Able to write and publish a scientific paper in national and international journals.

2. Students' Responsibilities:

- 1. Students must take a full responsibility for conducting the capstone project and ensure that it is finished within the required period (middle of Block 20).
- 2. Students are expected to meet the deadlines of all forms at regular basis.
- 3. Students must show respect and maintain good communication with their supervisors.
- 4. Students are expected to complete and return monthly progress reports to their coordinator.
- 5. Sending the final version of their completed project to the postgraduate studies and scientific research Unite (PSSRU) before the middle of block 20.
- 6. Students should prepare a 15 min. presentation for their viva.
- 7. Students are responsible for doing all corrections for their paper, as requested during their viva.
- 8. Final copy of their paper in the format of PDF file- should be sent to their supervisors.

3. <u>Supervisor Responsibilities:</u>

- 1. The supervisors are expected to be accessible to the students at appropriate times.
- 2. Supervisors are expected to provide full guidance on the management of the capstone projects.
- 3. The supervisors are expected to dedicate enough time to meet their students.
- 4. The supervisors are expected to provide help with both general and advanced research techniques appropriate to the topics of the research of their students.
- 5. The supervisors are expected to introduce their students to the relevant research community.
- 6. Supervisors are expected to keep regular evaluation of their students' progress and to report to the PSSRU.
- 7. The supervisors are expected to maintain respect and good communication with their students.
- 8. Give verbal feedback to students when filling the student evaluation form.
- 9. Sending the final version of their completed project (After receiving comments from the examiner) to the PSSRU by email.

4. Capstone coordinators' Responsibilities:

- 1. Capstone coordinators must be a tutor, lab. technician, or another member from the faculty team.
- 2. The main role for capstone coordinator is administrative.
- 3. The coordinator is responsible for the liaison between students, the supervisor, and the PSSRU.
- 4. Submit all filled forms (progress report, student evaluation form, etc.) to PSSRU.
- 5. Prepare a file containing all important papers (such as permission letter, and google drive, etc.).
- 6. The coordinators are expected to be accessible to the students at appropriate times.
- 7. The coordinators are expected to create a Viber group or What's app. group. The group should include students, supervisor, tutor, and the head of the PSSRU.

5. Work Plan:

The capstone project plan:

* After the research proposal is approved by PSSRU and issuing approval letter, **the supervisors should submit** their proposal to https://research-portal.limu.edu.ly/

Process step	Year 3	Year 4	Year 5
Submission of research	By the middle of		
proposal by supervisors	3 rd year.		
	submit to PSSRU		
	then to:		
	https://research-		
	portal.limu.edu.ly/		
Assigned students to	By the end of 3 rd		
their project and	year		
supervisors			
Filling Registration		Orientation week (meet	
form for capstone		your supervisor	
project		session) *	
Submission of capstone		1 progress report and 1	1 progress report
project Progress Report		student evaluation form	and 1 student
		at least per month	evaluation form at
			least per month
Submission form for			No later than mid
Viva			of block 20.
Submission of Viva			No later than end
			of block 20

6. Progress Report:

One progress report per month should be provided by the students together with their supervisor unless PSSRU asked for more reports. Coordinator should submit the filled in report to PSSRU.

Progress report is an important part because:

- A. It evaluates the student's work (Student evaluation form should be attached with the progress report).
- B. It gives indication about any challenges that faced by the supervisor or the student.

7. Evaluation Marks:

Marks distribution for the capstone project:

50% Evaluation by examiners (Internal and External): (35% Viva evaluation; 15% Oral presentation evaluation).

50% Evaluation by the supervisor: (35% progress evaluation; 15% Oral presentation evaluation).

8. Submitted Paper:

• Writing guidelines

Kindly, Follow Libyan International Medical University Journal (LIMUJ) guidelines (available at: https://journal.limu.edu.ly/contributors.asp)(Appendix A: LIMUJ checklist).

Plagiarism

Plagiarism means presenting someone else's work as your own work by presenting or copying it without the appropriate acknowledgment or citation of the source.

Plagiarism is a type of academic theft which is strictly prohibited.

• Number of copies submitted

Supervisors should submit the final PDF file to the PSSRU using email.

Examiner feedback:

The characteristics of different quality capstone:

Quality	Characteristics
	Original and significant, clear, clever,
	creative, elegant, engaging, exciting,
Outstanding	interesting, insightful, persuasive, and
Outstanding	thoughtful.
	Very well written and very well organized.
	➤ Has a point of view and a strong addresses,
	an important question or problem. Clearly
	states the problem and why it is important.
	Displays a deep understanding of a massive
	amount of complicated literature.
	Argument is focused, logical.
	Has a brilliant research design.
	Uses or develops new tools, methods,
	approaches, or new types of analyses.
	> Data are rich and come from multiple
	sources.
	Analysis is comprehensive and complete.
	Results are significant.
	Conclusion ties the whole thing together.
	Opens new areas for research. Well written and well organized.
	Well written and well organized.Has some original ideas, insights, and
	observations.
	Has a good question or problem that tends
	to be small and traditional.
Very good	Shows understanding of the subject matter.
	Uses appropriate, standard theory,
	methods, and techniques.
	> Obtains solid, expected results/answers and
	connections.
	Makes a modest contribution to the field.
	Shows the ability to do research.
	➤ Is not very original or significant.
	➤ Is not interesting, exciting,
	Displays little creativity.
	Writing is pedestrian and plodding.
A 4.11	> Structure and organization are weak.
Acceptable	Displays a narrow understanding of the
	field.
	> Theory is understood at a simple.

	Uses standard methods.
	Analysis is unsophisticated - does not
	explore all possibilities and misses
	connections.
	Results are predictable and not exciting.
	Makes a small contribution.
	➤ Is poorly written.
	➤ Has spelling and grammatical errors.
Unacceptable	Plagiarizes or deliberately misreads or
Unacceptable	misuses sources.
	Does not understand basic concepts.
	Question or problem trivial or weak.
	Argument is weak, inconsistent, self-
	contradictory, unconvincing, or invalid.
	Methods are inappropriate or incorrect.
	➤ Data are wrong or misinterpreted.
	Analysis is wrong or inappropriate.
	Results are unexplained or misinterpreted.

9. **Forms:**

- 1) Registration Form for Capstone Project.
- 2) Capstone Project Progress Report.
- 3) Student Evaluation Form.
- 4) Submitting the Final Copy of the Capstone Project.
- 5) <u>Capstone Project Evaluation by Examiner Form</u>
- 6) Presentation skills evaluation





Form Name: Registration Form for Capstone Project Date: / /

Form no : PharmD – Acad-28 Capstone no: Cap-

Registration Form for Capstone Project

Project title:	
Registration: 20/20	
1. Student name:	
Student number:	Student Limu email: ————
Student's signature:	Date:
2. Student name:	
Student number:	Student Limu email:
Student's signature:	Date:
3. Student name:	
Student number:	Student Limu email:
Student's signature:	Date:
For supervisor use:	
Name of supervisor:	Signature <u>:</u>
Supervisor's email:	
For coordinator:	
Name of coordinator:	<u>Sig</u> nature:
Coordinator's email:	
For Research Committee us	e:
Signature:	Date:

⁻ Please attach study proposal (Title, hypothesis, aim, and methodology) with this form.





Form Name: Capstone Project Progress Report Date: / /

Form no : PharmD – Acad-29 Capstone no: Cap-

Capstone Project Progress Report

<u> </u>		Togroco Roport
Project Title:		
1. Student Name and No.		
2. Student Name and No.		
3. Student Name and No.		
Progress Report No.		
Report Submission date:		
Summary		
Please provide a short overview of the project	(hypothesis(es),	the objective(s), etc):
Activities and Progress		
Report on activities (for the period covered by	this report).	
Next Steps		
List the activities planned for the next stage of	the project:	
Obstacles		
List changes in your plane (Why?)		
Name of student:		Signature and date:
Name of student:		Signature and date:
Name of student:		Signature and date:
Supervisor Opinion:		
Name of supervisor:		Signature and date:
Name of Coordinator:		Signature and date:





Form Name: Student Evaluation Form	Date: / /

Form no: PharmD – Acad-30 Capstone no: Cap-

Student Evaluation Form

Meeting date:

	Student name:	Student name:	Student name:
Attended the meeting			
Participation in ideas and planning project			
Willingness to discuss the ideas			
Cooperation with other members			
Understand the project topic			
Finish his/her task on time			
Total=			

Note:

- Evaluation Scale: 1= very poor, 2= poor, 3= good, 4= very good, 5= Excellent
- This evaluation should be conveyed to students **verbally** at the end of the meeting.

Supervisor's signature:





Form Name: Submitting the Final Copy of the Capstone Project Date: / /

Form no: PharmD – Acad-31 Capstone no: Cap-....

Submitting the Final Copy of the Capstone Project

Name of the Students	
Signatures	
Name of the Supervisor	Sign.:
Name of the Coordinators	Sing.:
Project Title	
Date of Submitting	
Proposal Examiner 1 (Internal)	
Proposal Examiner 2 (External)	

Approved by Scientific Research Committee: -----





Form Name: Capstone project evaluation by examiner form	Date:	/ /	
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Form no: PharmD – Acad-32 Capstone no: Cap-

Capstone Project Evaluation by Examiner form

Thosis title:			
1116212 HHE.	 	 	

Capstone project evaluation

	Item					
1	Academic writing	1	2	3	4	5
1	Did the authors use past tense, third person and active voice?					
2	Did the authors use the punctuation marks properly?					
3	Did the authors adhere to the academic writing style (vocabularies, sentence structure and					
	paragraph structure, coherence, and cohesion)?					
4	Did authors use abbreviation properly?					
5	Did authors write numbers and numerals properly?					
6	Was the plagiarism less than 15%? *					
2	Title	1	2	3	4	5
7	Was the title clear and summarizes the main idea (s) of the study (specific)?					
8	Was it neither short nor long (10-15 substantive words)?					
9	Was it attractive?					
3	Abstract	1	2	3	4	5
10	Was it concise (200-300 words)?					
11	Was it structured (background, materials and methods, results and conclusion)?					
4	Introduction	1	2	3	4	5
12	Did it summarize the current understanding and background information about the topic?					
13	Did it mention the short coming of the previous studies (research gap)?					
14	Did it state the aim of the study?					
5	Materials/subjects and methods	1	2	3	4	5
15	Did it describe the characteristics of the studied organism(s) (plant, animal, human, etc.)					
16	Did it describe the used technique, or drugs (preparation, dose, route of administration, timing)?					
17	Did it describe the used tool and protocol for data collection?					
18	Did it describe the pre-experiment handling and care of the organisms? (When relevant)					
19	Did it describe the time (when) and setting (where) of the study was performed? (Only if location					
	and time matter).					
20	Were manufacturer's details mentioned (when relevant)					
21	Did it describe the study design: sample size, sampling technique and studied variables?					
22	Did it describe the statistical methods (the used software & statistical tests)?					
23	Did it provide information about ethical considerations (informed consent, ethical approval)?					
6	Results	1	2	3	4	5
24	Was it concise?					
25	Was the data presented once? (The same data should not present more than once).					

26	Were tables and figures used appropriately					
7	Discussion	1	2	3	4	5
27	Was there enough and logical interpretation, comparison, and explanation of the results?					
28	Did the authors properly discuss the advantage of their study?					
29	Did the authors properly acknowledge the limitations of his study?					
30	Did the authors give any practical recommendations or make suggestions for further Research?					l
	(When relevant)					
8	Conclusion	1	2	3	4	5
31	Was it concise and to the point?					
32	Did it summarize the thoughts and conveying the larger significance of your study?					
9	Acknowledgment	1	2	3	4	5
33	Did authors acknowledge and any significant help did they receive? (When relevant)					
10	Conflict of interest	1	2	3	4	5
34	Did the authors declare any conflict of interest?					
11	References	1	2	3	4	5
35	Were authors using the proper reference style?					
36	Did authors used enough number of references?					
37	Did authors include the major references about the research topic?					
38	Were the references up to date?					
	TOTAL				/1	90

^{*}Link for plagiarism checker: https://www.grammarly.com/plagiarism-checker

*Plagiarism > 15%= 5 15-17 %= 4 18-20%= 3 21-22%= 2 23-25= 1 More than 25%: rejected

Examiner name: Date:



Total

Libyan International Medical University Faculty of Pharmacy Pharm D Program



Form Name: Presentation skills evaluation	form Date:	/ /		
Form no: PharmD – Acad-50	Form no: PharmD – Acad-50 Capstone no: Cap		: Сар	
Presentation skills evaluation				
Thesis title:				
Criteria	Student's Name	Student's Name	Student's Name	
1. Clarity of the presentation				
2. Ability of the student to explain the work				
3. Presenter skills:				
A. Body language				
B. Eye contact distribution				
C. Clarity of the voice and how loud it is				
4. Use of English language only				
5. Being committed to the time allocated (10-15 mints).				
6. Presentation organization (int., meth., results, disc., and conclusion).				
7. Presentation design: (Font size, Text color, and background).				
8. Handling questions				

Examiner name:	Date:
Examine name.	Date.

<u>/50</u>

<u>/50</u>

<u>/50</u>

Appendix A

(LIMUJ Checklist)

Manuscript Title

Covering letter		
	Previous publication / presentations mentioned	
	Source of funding mentioned	
	Conflicts of interest disclosed	
Autho	ors	
	Middle name initials provided	
	Author for correspondence, with e-mail address provided	
	Number of contributors restricted as per the instructions	
	Identity not revealed in paper except title page (e.g., name of the institute in material and	
	methods, citing previous study as 'our study', names on figure labels, name of institute	
	in photographs, etc.)	
Prese	ntation and format	
	Double spacing	
	Margins 2.5 cm from all four sides	
	Title page contains all the desired information (vide supra)	
	Running title provided (not more than 50 characters)	
	Abstract page contains the full title of the manuscript	
	Abstract provided (not more than 150 words for case reports and 250 words for original	
	articles)	
	5 r	
	J 6 1	
	Headings in title case (not ALL CAPITALS, not underlined)	
	References cited in superscript in the text without brackets	
	References according to the journal's instructions.	
Langi	uage and grammar	
	Uniformly British English	
	Abbreviations spelt out in full for the first time	
	Numerals at the beginning of the sentence spelt out	

Tables	and figures
	No repetition of data in tables/graphs and in text
	Actual numbers from which graphs drawn, provided
	Figures necessary and of good quality (colour)
	Table and figure numbers in Arabic letters (not Roman)
	Labels pasted on back of the photographs (no names written)
	Figure legends provided (not more than 40 words)
	Patients' privacy maintained (if not, written permission enclosed)

Credit notes for borrowed figures/tables provided