Guideline for M.Sc. IV Semester (Chemistry) Dissertation

Department of Chemistry School of Sciences, Uttarakhand Open University, Haldwani

Procedure for allotment of supervisors:

- 1. Learners can select their supervisors from their study centers/nearby study centers/faculties of UOU/ faculties nominated by University.
- 2. For finalizing the allotment of the supervisors a zoom meeting will be held on 18-07-2023 at 11.00AM. ZOOM Link to Join meeting is given below:

https://us02web.zoom.us/j/88021683408?pwd=dTlycXVHRHozSVlzVDZlaVR2U1lhdz09

Synopsis:

1. Learners have to submit soft copy of synopsis approved and duly signed by the supervisor in the mail id: doch@uou.ac.in

Synopsis contents following sections:

- i. Title of the Dissertation
- ii. Introduction
- iii. Plan of work and objectives
- iv. Material and method
- v References
- 2. Synopsis should be of 2 to 4 pages. The standard font shall be Times New Roman of 12 pts with 1.5 line spacing. Synopsis must signed by Learner and supervisor.
- 3. Synopsis must be submitted within one week from the date of dissertation counseling (18/07/2023)

Evaluation Procedure:

- 1. After finalizing the topic the learners have to submit soft copy of dissertation synopsis approved and duly signed by the supervisor in the mail id: doch@uou.ac.in
- 2. Learners have to give viva/presentation after submission of dissertation, through online mode [Date and time will announce by the University]

3. A hard copy of the final dissertation have to be submitted in , at Department of Chemistry, School of Sciences, Uttarakhand Open University, Haldwani (Nainital) PIN-263139 [Date will announce by the University]

Format for dissertation is given below:

The dissertation should be presented chapter wise. Each chapter will have a precise title as given below. A chapter can be subdivided into sections, and sub-section so as to present the content discretely and with due emphasis.

Content Page

Chapter 1: Introduction:

It shall justify and highlight the problem posed, define the topic and explain the aim and scope of the work presented in the dissertation. This chapter also include objective of the research work. It may also highlight the significant contributions from the investigation.

Chapter 2: Review of Literature:

This Chapter presents a critical appraisal of the previous work published in the literature pertaining to the topic of the investigation.

Chapter 3: Material and Methods:

This chapter deals with a detail methodology/technique/theory by which researcher used to carry out the research work

Chapter 4: Results and Discussions:

This chapter includes a thorough evaluation of the investigation carried out and bring out the contributions from the study. The discussion shall logically lead to inferences and conclusions as well as scope for possible further future work.

Chapter 5: Summary and Conclusions

A brief report of the work carried out shall form the first part of the Chapter. Conclusions derived from the logical analysis presented in the results and discussions chapter shall be presented and clearly enumerated, each point stated separately. Scope for future work should be stated lucidly in the last part of this chapter.

Chapter 6: References/Bibliography:

The candidates shall follow the style of citation and style of listing in one of the standard journals in the subject area consistently throughout his/her dissertation (mentioned below). For journal:

S. Lakhera, K. Devlal, M. Rana, V. Dhuliya, N. Pandey, Non-Linear Optical Behavior of 2,9-Dimethylquinacridone with Adsorbed Gold and Silver Nanoclusters, Optik. 286 (2023) 170983. https://doi.org/10.1016/j.ijleo.2023.170983

For book:

C. Kittel, Introduction to Solid State Physics, Wiley India (P) Ltd., New Delhi (2013).

Chapter 7: Appendix:

Detailed additional information, lengthy derivations, raw experimental observations etc. are to be presented in the separate appendices.

Type -Setting, Text Processing and Printing

The text shall be printed employing using a standard text processor. The standard font shall be Times New Roman of 12 pts with 1.5 line spacing.

Auxiliary

- 1. Binding: Spiral or hard Binding
- **2. Front Covers:** The front covers shall contain the following details:
 - Full title of thesis in 6 mm/22 point's size font properly centered and positioned at the top.
 - Full name of the candidate in 4.5 mm 15 point's size font properly centered at the middle of the page.
 - A 40 mm dia replica of the University emblem followed by the name of department, name of the University and the year of submission, each in a separate line and properly centered and located at the bottom of page.
- **3. Blank Sheets:** In addition to the white sheets (binding requirement) two white sheets shall be put at the beginning and the end of the dissertation.
- **4. Title Sheet:** This shall be the first printed page of the thesis and shall contain the submission statement: the dissertation submitted in partial fulfillment of the requirements of the Degree e.g. M.Sc., the name and enrollment No. of the candidate, name(s) of the Supervisor and Cosupervisor (s) (if any), Department, University and year of submission.

Sample copy of the 'Title Sheet' is enclosed (Annexure I)

- **5.** A Declaration of Academic Honesty and Integrity by Candidate: A declaration of Academic honesty and integrity is required to be included along with every thesis/dissertation after the Supervisor's certificate. The format of this declaration is given in Annexure 'II' attached. (Annexure II)
- 6. Certificate from Candidate/Supervisor and Convener (Annexure 'III'):
- **7. Abstract:** The 500 word (maximum) abstract shall highlight the important features of the dissertation. The abstract in the dissertation, however, shall have two more parts, namely, the layout of the dissertation giving a brief chapter- wise description of the work and the key words.
- **8. Contents:** The contents shall follow the abstract and shall enlist the titles of the chapters, section and sub-section using decimal notation, as in the text, with corresponding page number against them, flushed to the right. Two separate lists of figure captions and table titles along with their numbers and corresponding page numbers against them shall follow the contents.
- 9. **Abbreviation Notation and Nomenclature:** A complete and comprehensive list of all abbreviations, notations and nomenclature including Greek alphabets with subscripts and superscripts shall be provided after the list of tables and figures.

Title of dissertation (ex. SYSTEMS OF KUMAUN HIMALAYA)

Dissertation

Submitted for the Award of Degree of

Master of Science

in

Chemistry

Ву

ABCD (Name of the learner)

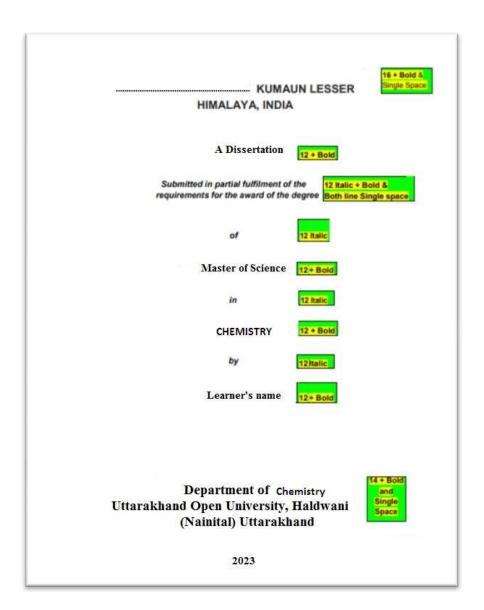
Under the supervision of

Prof./Dr./ Mr. (Supervisor) Department of Chemistry Uttarakhand Open University, Haldwani

DEPARTMENT OF CHEMISTRY
UTTARAKHAND OPEN UNIVERSITY, HALDWANI- 263139
(UTTARAKHAND)

2023

Annexure I: Front page



Specimen for cover page

Specimen 'II' CANDIDATE'S DECLARATION I declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the University and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. (Signature) (Name of the student) (Enrolment No./Roll No.) Date: ____

KU-SRICC-2918

Annexure II: Specimen for declaration certificate

	Department of Chemistry d Open University, Haldw	
	CERTIFICATE	14= Bold Underline
I hereby certify that t	he work which is being presented	in the Discress entitled
LESSER HIMALAYA, INDIA	in partial fulfilment of the requireme	ents for the award of the
Degree of Master of Science	e inchemistry submitted in the	Department of chemi
	versity is an authentic record of 2023 to	supervision of Dr
The matter presented in	this thesis has not been submitted by	me for the award of any
other degree of this or any other	or University/Institution.	2 / 10 1 A HANG 2 / 20 / 10 20 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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	W 125502 BENDE 0002	
This is to certify that the above state	ement made by the candidate is correct to th	e best of my knowledge.

Annexure III: Specimen of supervisor certificate

Proposed themes for M. Sc. Dissertation (Chemistry)

During the course of study all the learners have to do a compulsory short term research and submit a dissertation for partial fulfillment of the requirement of the M. Sc. degree. University offers number of themes for M. Sc. dissertation from which a learner can select a research topic under the guidance of allotted supervisor. Different tentative themes for M. Sc. research are proposed by the concerned departments which are as follows:

Department of Chemistry

- 1. Natural Products/ Phytochemistry
- 2. Medicinal Chemistry
- 3. Soil Chemistry
- 4. Organometallic Chemistry
- 5. Water Chemistry

Note- Topic for Dissertation may be chosen according to the availability of recourses and the topic provided by the supervisor in the felid of chemistry.