

**REGULATIONS GOVERNING POST GRADUATE  
PROGRAM AT SINDH AGRICULTURE UNIVERSITY TANDOJAM UNDER  
SEMESTER SYSTEM**

**A. GENERAL**

**A.1. TITLE**

These Regulations shall be called SAU Post Graduate Degree Program Regulations under Semester System commencing from January 2005 {PGDPR(SS)-2005}.

**A.2. COMMENCEMENT**

The Regulations shall be deemed to have come into force from the First Semester admissions of all post graduate programs for the Calendar Year 2005 onwards:

- a) The issues emerging due to implementation of these Regulations shall be resolved by the Academic Council on the recommendations of Board of Advanced Studies and Research from time to time.

**A.3. DEFINITIONS**

In these Regulations, unless otherwise stated:

- a. "University" means Sindh Agriculture University Tandojam.
- b. Board of Advanced Studies and Research (BASAR) means Board of Advanced Studies and Research of Sindh Agriculture University Tandojam.
- c. "Academic Year" means the Academic Year of the University corresponding to the Calendar Year.
- d. "Semester" means a period of continued 18 weeks duration including examination during spring and autumn.
- e. "Semester Examination" means the Final Examination held at the end of each semester.
- f. "Vice Chancellor" means Vice Chancellor of Sindh Agriculture University, Tandojam.
- g. Director Advanced Studies and Research (DASAR) means Director of Advanced Studies and Research of Sindh Agriculture University Tandojam
- h. "Registrar" means Registrar of Sindh Agriculture University, Tandojam
- i. "Controller of Examinations" means Controller of Examinations, Sindh Agriculture University Tandojam.
- j. Board of Studies (BOS) means Departmental Board of Studies approved by Academic Council of Sindh Agriculture University Tandojam.
- k. Board of Faculty (BOF) means Faculty Board of Studies approved by Academic Council of Sindh Agriculture University Tandojam.
- l. Chairperson means Chairperson of an Academic Department of Sindh Agriculture University Tandojam.
- m. Dean means Dean of a Faculty of Sindh Agriculture University Tandojam.
- n. Equivalence Committee means Equivalence Committee of Sindh Agriculture University Tandojam.

#### A.4. PRE-ADMISSION EVALUATION CRITERIA

1. All applicants seeking admission in Post Graduate Programs shall compulsorily appear in a GRE-style Pre-admission Test.
2. Final merit list of the candidates shall be prepared according to the marks adjusted by the following formula. The same shall be binding on the applicant.

EXAMINATION	WEIGHTAGE	
	M.Sc./M.E.	Ph.D.
Matriculation	10 points	--
Intermediate Science	10 points	--
B.Sc./B.E./D.V.M.	40 points	20 points
M.Sc./ME	---	30 points
Publications	---	10 points
Aptitude		
i. Ranking in subject of opted specialization	10 points	10 points
ii. Written test	20 points	20 points
iii. Viva voce	10 points	10 points
Total	100	100

3. In case of degrees and examinations, the points shall be awarded on overall percentage of marks obtained during an examination (e.g. Matriculation) or a degree (e.g. M.Sc.) For example, if a student secures 78% marks in Matriculation, he shall be awarded 7.8 points for Matriculation. Similarly an aggregate percent of 70 shall earn him 07 points for graduate degree.
4. In case of publications, a research paper published in National Journal of International repute carries 02 points while a paper published in International journal carries 05 points, the overall points to be awarded on publication must, however, not exceed 10.
5. The points for ranking in the subject of opted specialization shall be awarded on the basis of percentage of marks obtained in that particular subject(s) during the final year of graduate degree program
6. Written Test for subject of opted specialization, shall be developed by concerned Department in consultation with Dean of the Faculty
7. The test shall be organized by Dean of the Faculty concerned.
8. Admit cards for appearing in Written Test shall be collected latest by one day before the test date from the office of the concerned Dean, Sindh Agriculture University, Tandojam by paying Rs.100/= as Pre-Admission Test fee.
9. The admission to entry test shall be on the basis of admit card and proper identification.

#### A.5. SEMESTERS

Each Academic Year shall start from January in synchronization with calendar year

- There shall be Two semesters (Spring and Fall/Autumn) of 18-week duration each (including examination) in a Calendar Year

- An optional, 10-12 week summer semester (as part of Academic Year) shall be offered to students to cover failing and/or deficiency courses or to improve poor grades.

<b>Schedule of activities in a regular semester</b>	
<b>Activity</b>	<b>Duration</b>
Registration	01 Week
Teaching Session	14 Weeks
Exam Preparation	01 Week
Semester Exam	02 Weeks
<b>Summer semester (Optional)</b>	
Registration	03 days
Teaching Session	08 Weeks
Exam Preparation	01 Week
Semester Exam	02 Weeks

3. There will be a break of 2 weeks between the two semesters of each Academic Year.
4. The semester results shall be announced during the break.
5. The Controller of Examination will announce the results at the end of semester.

#### **A.6. REGULATIONS FOR THE CONDUCT OF EXAMINATIONS**

The regulations related to the conduct of examination including the appointment, responsibilities and remuneration of the examiners and the examination staff are covered by existing rules and shall remain effective.

#### **A.7. SETTING OF QUESTION PAPER FOR THEORY FINAL EXAMINATION**

1. The Teacher/Examiner shall set the Question paper, from full syllabus of the course in the Final Examinations.
2. Paper shall contain at least 75% objective and 25% descriptive type questions.
3. The choice shall be limited to 25% from all questions in line with the guidelines provided by Higher Education Commission.

#### **A. 8. ELIGIBILITY FOR APPEARING IN EXAMINATION**

The examinations will be open to the student who fulfills the following minimum requirements:

1. He/she must be a student and has paid all the applicable fees including examination fee of the University.
2. He/she must have at least 75% average attendance.
3. He/she is not debarred from taking the examination.

#### **A.9. ASSESSMENT OF THEORY ANSWER COPIES**

The sealed answer copies of Final examination will be sent to the Controller of Examinations by the concerned Examiner along with marks award lists (in duplicate), within specified period i.e.

one week after the date of examination to the Controller of Examinations. An amount of Rs. 20 per day shall be deducted from the remuneration bill if the results are received after due date

## **A.10. EXAMINATION GRADING**

The performance of a student is to be measured in letter Grade (A, A<sup>-</sup>, B<sup>+</sup>, B, B<sup>-</sup>, C<sup>+</sup>, C, Grade). These letters carry weightage from the lower of 2 to the highest of 4 points per credit hour of a course. The semester system warrants for home assignments and partial examinations to be conducted and assessed by the concerned teacher/Examiner.

The award list showing grades and grade points for Theory and Practical (in duplicate) along with attendance sheet, signed by the concerned examiners / invigilators, shall be submitted under sealed cover to the Controller of Examinations.

### **A.10.1. AWARD OF GRADES**

The grading of candidates for each examination shall be as under:

#### **(i) GRADE EQUIVALENCE:**

<b>Grade</b>	<b>Numerical Value</b>	<b>Range of Marks in %</b>	<b>Achievement</b>
A	4.00	=>80	Excellent
A <sup>-</sup>	3.67	73-79.99	Good
B <sup>+</sup>	3.33	66-72.99	Satisfactory
B	3.00	60-65.99	
B <sup>-</sup>	2.67	56-59.99	
C <sup>+</sup>	2.33	53-55.99	Average
C	2.00	50-52.99	
D	0.00	< 50	Fail

#### **(ii) MARKS DISTRIBUTION**

##### **Proportional Weightage of exams/assignments:**

<b>Activity</b>	<b>Weightage (%)</b>
1 <sup>st</sup> mid-semester examination	15
2 <sup>nd</sup> mid-semester examination	15
Final examination	60
Assignments	10
<b>Total</b>	<b>100</b>

### (iii) CALCULATION OF G.P.A. (Grade Point Average)

It is an expression for the average performance of the student in the courses he/she has taken during one or two semesters or at the end of the entire course of study

**G.P.A.** =  $\sum Q.P. / \sum C.H.$  where :

**G.P.A.** = Grade Point Average

**Quality point (Q.P.)** = Grade points multiplied by credit hours (Theory and Practical)

$\sum Q.P.$  = Sum of all the Quality Points of courses offered in the semester

$\sum C.H.$  = Sum of all credit hours of courses offered in the semester

Multiply Grade Point with the Credit Hours in each course, add up the cumulative Grade Points and divide by the Total Number of credit hours to get the G.P.A. per Semester.

### A.11. REPEATING COURSES

- i. Whenever a student fails or gets less than 'C' grade, he/she is required to register himself/herself in that subject when offered, attend the classes regularly and reappear in examination.
- ii. A student is allowed **only one chance** to improve his/her grades in course(s) of a previous semester. However after the completion of the specified degree period\*, **student shall not be allowed to improve** any course.
- iii. On improving subject, if one gets the grade less than the previous, the previous grade will be counted towards his passing.
- iv. If a student absents himself/herself in a mid-semester/final semester test for any reasons, no separate test will be held for him/her, during that semester. He/She can appear at the immediate next session in the respective semester when the examination for that course(s) is conducted.

- \* 1. Incase of Masters, acceptance of semi-final thesis after thesis defense seminar by DASAR for recommendation for the conduct of viva voce examination  
2. Incase of M.Phil and Ph.D., after final thesis defense examination

### A.12. ANOMALY COMMITTEE

Anomaly Committee shall address the grievances of students in the evaluation of the assignments, tests and examinations with following terms of reference:

1. To recheck paper/test/assignments if student complains in writing that injustice has been done to him in the assessment/evaluation
2. To settle the complains, about the seriousness in research and thesis writing by teacher against student and vise versa.

The committee shall comprise of:

- |  |          |
|--|----------|
| (i) Chairman of the concerned Department   | Chairman |
| (ii) One Senior Teacher other than the concerned teacher from the concerned Department   | Member   |
| (iii) Concerned teacher  | Member   |
| (vi) Any other teacher from the concerned Faculty to be appointed by Vice Chancellor not below the rank of Assistant Professor | Member   |

### **A.13. TECHNICAL COMMITTEE FOR THE EVALUATION OF SYNOPSIS**

The Technical Committee shall be constituted by Dean of the concerned Faculty and shall comprise of:

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|---|----------|
| 1. Chairman of the concerned Department   | Chairman |
| 2. Supervisor OR Senior Teacher from the concerned Department if Chairman is the supervisor | Member   |
| 3. One senior teacher from related Department/<br>Field of study                            | Member   |

The committee shall evaluate synopsis and return the same with suggestions/remarks to the Dean within 03 days

### **A.14. Thesis rejection**

**On the recommendation of DASAR, if thesis is proved by the following committee, to have been copied/ plagiarized, it will be liable to be rejected and student's admission cancelled by Vice Chancellor. The student shall not be readmitted under any circumstances.** Student may, however, appeal against such decision to the syndicate:

1. All Deans (Dean of the concerned Faculty shall act as Chairman of the committee)
  2. DASAR
  3. Controller of Examinations
- The decision of the committee shall be final

### **A.15. DECLARATION OF POSITION (For Masters Program only)**

- (a) A candidate who passes all the courses of a program in regular examination and complete degree requirements (announcement of thesis viva voce examination result by Controller of Examinations) within the prescribed time limits (06 months after 04 regular semesters) shall be eligible for award of position (First, Second, and Third) for each Academic Year.

### **A.16. AWARD OF DEGREES AND MEDALS**

- a) At the end of each Academic Year, the Controller of Examinations shall submit, before the Academic Council, the list of successful candidates for award of various Degrees and Medals. The Academic Council shall in turn send its recommendation to the Syndicate to confer the Degrees/Medals upon successful candidates who are otherwise eligible.

- b) Degrees and Marks/Pass Certificates shall be issued as per format approved by the Academic Council.
- c) The Academic Council shall approve the nomenclature of various Degrees awarded by the University.

## **B. MASTERS DEGREE PROGRAM**

### **B.1. DEGREES (Nomenclature)**

- (a) Master of Science (Agriculture) Honors = M.Sc. (Agri.) Honors in  

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(Field of specialization).
- (b) Master of Science (Honors) = M.Sc. (Honors) in  

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(Field of specialization).
- (c) Master of Engineering = M.E. in  

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(Field of specialization).

### **B.2 PRE-REQUISITE QUALIFICATION (ELIGIBILITY)**

#### **CANDIDATES POSSESSING**

- i. B.Sc. (Agri.) Honors or equivalent qualification in various subjects of Agriculture shall be eligible for admission to M.Sc. (Agri.) Honors in the subject of specialization.
- ii. D.V.M., B.Sc(A.H.), B.V.Sc.B.Sc.(A.H.), and M.B.B.S., or equivalent qualification shall be eligible for admission in M.Sc. (Honors) in the Faculty of Animal Husbandry & Veterinary Sciences.
- iii. B.E (Agri.) or equivalent qualification shall be eligible for admission to M.E. degree program in Agricultural Engineering

**Note:** Candidates possessing degrees other than specified above shall be evaluated by the Equivalence Committee of Sindh Agriculture University Tandojam.

- B.3 DURATION:** Minimum 02 years (04 semesters)  
Maximum 03 years (six semesters)

(Extension of one year may be granted by Board of Advanced Studies and Research if recommended with reasons and justification by Supervisory Committee, Chairman of the Department and Dean of the Faculty concerned)

### **B.4 COURSE WORK**

#### **1. COMPULSORY COURSES**

- a. Statistics (Experimental Statistics) 3(2-1) shall be compulsory for all students.

- b. Numerical Methods 4(3-1) shall be compulsory for the students registered in the Faculty of Agricultural Engineering.
- c. Biochemistry 3(2-1) (Analytical Biochemistry) shall be compulsory for all students except those registered in the Faculty of Agri. Social Sciences and Agri. Engineering.
- d. Software applications shall be compulsory for students registered in the Faculty of Agri. Social Sciences 3(2-1)
- e. Computer programming 3(2-1) shall be compulsory for the students registered in the Faculty of Agricultural Engineering and Information Technology.
- f. Candidate must undertake a course work of 35 credit hours in addition to 10 Credit hours for research and deficiency courses if any, as recommended by Supervisory Committee and Board of Studies

**(Note: No course shall be of more than 4 credit hours).**

- 2. Approximately  $2/3^{\text{rd}}$  courses should be from major field while  $1/3^{\text{rd}}$  from minor field of study. **However, this formula shall be applicable after the deduction of credits for compulsory courses.**
- 3. Minor fields may either be one or two but not exceed three in any case.
- 4. In case of extra credits (in excess of the required 35 credits), the ratio does not apply to extra credits.
- 5. One credit hour carries 20 marks/points e.g. a 03 credit hour course will carry 60 marks while a 4 credit hour course will carry 80 marks. Within a course the marks will be divided in accordance with the credit hours assigned to the theory and practical.
- 6. A student must obtain at least a GPA of 2.0 in first semester to be promoted to second semester.
- 7. A student must maintain a CGPA of 2.0 and must have also passed at least 50% courses in the second semester to be eligible for admission to Third semester. Failure to any of above two conditions shall lead to the cancellation of his/her admission
- 8. An overall CGPA of 2.5 shall be the minimum requirement for eligibility of candidacy for Masters Degree.
- 9. A student, who obtains CGPA of 2.0 but less than 2.5 upon the completion of entire course work, may be allowed **once in spring and once in autumn** to take/repeat the courses of the previous semesters in which he/she has obtained the lower grades (with GPA of  $< 2.5$ ), in order to improve the CGPA so as to obtain the minimum of 2.5 for all semesters. Failure shall lead to the cancellation of his/her admission.

## **B.5 SYNOPSIS**

- 1. A student is required to submit 03 copies of synopsis along with 15 copies of summary on the prescribed proforma of the proposed research in the second semester dully signed and approved by his proposed supervisory committee to the chairperson of the concerned department for approval of Departmental Board of Studies.
- 2. The synopsis along with proposed supervisory committee, approved by concerned Board of studies shall be forwarded to Dean of the Faculty with advance copy to DASAR.



3. The Dean shall evaluate synopsis through a 3-member Technical Committee and shall forward to the Directorate of Advanced Studies and Research within 07 days of the receipt of synopsis in Dean Office. In case the synopsis are not forwarded by Deans' office within the stipulated time, the recommendations of the Departmental Board of Studies may be treated as final and the DASAR may take further necessary action.
4. The Technical Committee shall be comprised of two members from within the concerned department including supervisor and one member from the related field of study/ department from within the Faculty
5. The synopsis must reach the Directorate of Advanced Studies and Research before the end of the second semester for the approval by BASAR

#### **B.6. SUPERVISORY COMMITTEE**

- Supervisory Committee shall be constituted from the Teachers/scientists recognized by BASAR in the field of study
- Shall consist of three members to be approved by BASAR on the recommendations of concerned Departmental Board of Studies and forwarded by Dean of the Faculty.
- Committee shall contain two members from major field of study and one member from relevant field of study out side the major Department.

#### **B.7. THESIS**

1. Student can submit thesis in the fourth semester subject to the completion of course work with CGPA of 2.5
2. Thesis shall accompany a long abstract embodying methodology, results and conclusions of the research work done (shall not exceed 02 single spaced pages)
3. Unbound thesis shall be submitted to DASAR for assessment.
4. After assessment, student shall be allowed to deliver thesis seminar.
5. Concerned Chairman shall ensure wide circulation of seminar with date and time under intimation to the Directorate of Advanced Studies and Research.
6. Seminar shall be presided either by concerned Chairperson or the Dean of the Faculty.
7. Suggestions of the participants agreed upon by the supervisory committee shall be incorporated in thesis. The Chairperson shall ensure and certify the incorporation of mutually agreed suggestions.
8. The revised draft shall be submitted to DASAR for verification of the incorporated suggestions. The approval of DASAR at this stage shall be considered as acceptance of thesis for the award of degree.
9. After approval from DASAR, unbound thesis shall be submitted to the Controller of Examinations along with panel of examiners proposed by chairperson of the concerned Department, and forwarded by Dean of the concerned Faculty to obtain approval of Vice Chancellor

#### **B.8. THESIS EXAMINATION**

1. Thesis shall be examined by one external examiner appointed by Vice Chancellor from a panel of three examiners proposed by concerned Chairman through Dean of the concerned Faculty addressed to the Controller of examinations

2. A panel of 02 examiners (one external and the major supervisor to act as internal) shall examine the thesis and conduct viva voce examination.
3. Thesis carries 200 marks and should be evaluated and marks shall be assigned under following categories:
  - i. Viva-voce examination (technical knowledge of the subject) = **50 marks (25%)**
  - ii. Subject matter of thesis (such as: originality, quality of research and document, relevance of literature cited, interpretation and discussion of results, conclusions and achievements of objectives). = **100 marks (50%)**.
  - iii. Technical aspects of presentation (such as consistency, illustrations, figures/diagrams, references, grammar etc.)= **50 marks (25%)**.
4. Supervisory Committee shall ensure that the suggestions made by examiners are incorporated before the final binding of thesis.
5. Soft copy on MS-Word or pdf format must be submitted to DASAR.
6. Four copies of final bound thesis, (one each for central library, Controller of Examinations, Directorate of Advanced Studies and Research with C.D., and Faculty library) along with compact disc of the manuscript and the result of the viva voce examination shall be submitted to the controller of examination for the declaration of result.

### **C. MASTER OF PHILOSOPHY (M.Phil.) (FOR STUDENTS OTHER THAN PROF. GRADUATES)**

#### **C.1. ELIGIBILITY**

Masters or equivalent degree at least in second class/grade-C in the relevant field of study.

#### **C.2. DURATION:**

Minimum 02 years (four semesters)

Maximum 04 years (eight semesters)

(Extension of one year may be granted by Board of Advanced Studies and Research if recommended with reasons and justification by Supervisory Committee, Chairman of the Department and Dean of the Faculty concerned)

#### **C.3. SEMESTERS**

1. Each Academic year shall comprise of 02 semesters i.e.Spring semester and Fall/Autumn semester
2. An optional, 10-12 week summer semester (as part of academic year) is offered to students to cover failing and/or deficiency courses or to improve poor grades and conduct research (schedule shall be same as described at A.5)

#### **C.4. COURSE WORK**

1. Candidate must undertake following course protocol excluding deficiency courses

**Note:** No course shall be more than 4 credits hours

- Courses: Minimum 25 credits hours
- Thesis research: 15 credits

2. Course work for each candidate is prescribed by his supervisory committee from the courses offered by the concerned or other related Departments.
3. A student shall not be allowed to take more than 16 and less than 12 credits in one semester.
4. The special problem course and seminar shall be counted as one credit each
5. One credit hour carries 20 marks e.g. a 3 credit hour course will carry 60 marks . Within a course the marks will be divided in accordance with the credits assigned to the theory and practical
6. The supervisor shall submit through concerned chairman and Dean, a progress report related to the performance of student in research and course work for each semester on a proforma provided by DASAR
7. Approximately 2/3<sup>rd</sup> courses should be from major fields while 1/3<sup>rd</sup> from minor field of study. However, this formula shall apply after the deduction of credits for compulsory courses
8. Minor fields may either be one or two but not exceed three
9. Incase of extra credits (in excess of required), the ratio does not apply to extra credits.
10. A student must obtain a CGPA of 2.75 in first semester to be promoted to second semester.
11. CGPA of 2.25 to <2.75 will qualify a student for enrollment to next semester but this will only be allowed once in a program with a warning to improve his CGPA. If he fails to obtain a CGPA of 2.75 in the next semester, his admission shall be cancelled.
12. After completion of course, a student with CGPA between 2.25 and <2.75 will be given one opportunity to improve CGPA for that semester by taking courses in which he obtained lower grades. This opportunity is given only once and if he fails, his admission stands cancelled.

#### **C.5. SYNOPSIS**

1. A student is required to submit synopsis of the proposed research in the second semester dully signed and approved by his proposed supervisory committee to the chairperson of the concerned department for approval of Departmental Board of Studies.
2. The synopsis along with proposed supervisory committee, approved by concerned Board of studies shall be forwarded to Dean of the Faculty.
3. The Dean shall evaluate synopsis through a 3-member Technical committee within the Faculty and shall organize a seminar in the Faculty where student defend his proposed synopsis. After the revision (if necessary) the Dean shall forward synopsis to the Directorate of Advanced Studies and Research within 07 days of the receipt of synopsis in Dean Office.
4. The Technical Committee shall be comprised of two members from within the concerned department including supervisor and one member from the related field of study/ department from within the Faculty
5. The synopsis must reach the Directorate of Advanced Studies and Research before the end of the second semester for the approval by BASAR

#### **C.6. SUPERVISORY COMMITTEE**

1. Supervisory Committee shall be constituted from the Teachers/scientists recognized by BASAR in the field of study.
2. Supervisory Committee consists of three members to be constituted by BASAR on the recommendations of concerned Departmental Board of Studies and forwarded by Dean of the Faculty.
3. Committee shall contain two members from major field of study and one from minor/relevant field of study
4. Additional member may be opted if necessary and if justified by the proposed research work

#### **C.7. RESEARCH PROGRESS SEMINAR**

1. Must submit a research progress report to DASAR who shall organize an open seminar where student should present his work at the end of each academic year after first year of registration.
2. Suggestions made by audience and agreed upon by supervisory committee shall be incorporated. DASAR shall ensure that the mutually agreed upon suggestions are properly incorporated.

#### **C.8. THESIS**

1. Can submit thesis in fourth semesters subject to the completion of course work and passing of all examinations.
2. Shall accompany a research paper (from thesis) and an abstract embodying results of the research work
3. Unbound thesis shall be sent to DASAR for checking
4. After checking, student shall be allowed to deliver thesis seminar to be organized by DASAR
5. Suggestions of the participants, agreed upon by the supervisory committee shall be incorporated in thesis
6. The revised draft shall be submitted to DASAR for verification of the incorporation of suggestion (if any).
7. After verification from DASAR, unbound thesis shall be submitted to the Controller of Examinations along with panel of examiners proposed by Board of Studies of the concerned Department and forwarded by Dean of the concerned Faculty to obtain approval of Vice Chancellor.

#### **C.9. THESIS EXAMINATION**

1. Candidate shall be examined by one external examiner appointed by Vice Chancellor from a panel of three examiners proposed by concerned Board of Studies through Dean of the concerned Faculty
2. A panel of 02 examiners (one external and the major supervisor to act as internal) shall examine the thesis and conduct viva voce examination.
3. Thesis carries 300 marks and should be evaluated as:
  - i. 75 marks on the technical and general knowledge of subject (viva voce)  
= 75 marks (25%)

- ii. Subject matter of thesis such as originality, quality of research and document, interpretation and discussion of, conclusions and achievements of objectives = 150 marks (50%)
  - iii. Technical aspects of presentation such as consistency, illustrations, figures/diagrams, references, grammar etc. = 75 marks (25%)
- 4. Supervisory committee shall ensure that the suggestions made by examiners are incorporated before the final binding of thesis
- 5. Four copies of final bound thesis (one copy each for central library, Controller of Examinations, Directorate of Advanced Studies and Research with CD and Faculty library). along with C.D. and the result of the viva voce examination shall be submitted to the controller of examination for the declaration of result.
- 6. A student admitted to M.Phil. program if not able to meet the standards of M.Phil. degree may be awarded M.Sc. (Hons.) degree by the Board of Advanced Studies and Research if recommended by the Examiners.
- 7. **Before award of degree, the student is required to:**
  - Furnish a letter countersigned by his supervisor along with the proof that he/she has submitted at least two research papers out of the thesis to foreign journals or local journals of International repute.

## **D. Ph.D. PROGRAM**

### **D.1. ELIGIBILITY**

- Masters /M.Phil. or equivalent degree in the relevant field of study with at least two first divisions from Matric to M.Sc/M.E..
- The admission is made through admission committee which comprises,
  - 1. Dean of the Faculty
  - 2. DASAR
  - 3. Chairman of the Department

**D.2. DURATION:**                            Minimum 03 years (Six semesters)  
    Maximum 05 years (Ten semesters)

(Extension of one year after the expiry of maximum period, may be granted by Board of Advanced Studies and Research if recommended with reasons and justification by Supervisory Committee, Chairman of the Department and Dean of the Faculty concerned)

### **D.3. COURSE WORK**

1. Candidate must undertake following courses excluding deficiency courses  
 (**Note:** No course shall be more than 4 credits)
  - Courses:                            30 Credit Hours
  - Research:                            20 Credits Hours
2. Approximately 2/3<sup>rd</sup> courses should be from major field while 1/3<sup>rd</sup> from minor field of study.

3. Minor fields may either be one or two but not exceed three.
4. In case of extra credits (in excess of required), the ratio does not apply to extra credits.
5. There shall be no compulsory courses. However, if the committee considers necessary then student may be advised to take one or more compulsory courses as deficiency courses.
6. If a student has already taken one or more of these courses with grades equivalent of Ph.D. level during M.Sc., he is not necessarily required to take similar courses during Ph.D.
7. Course work for each candidate is prescribed by his supervisory committee from the courses offered by the concerned or other related Departments.
8. A student shall not be allowed to take more than 15 and less than 9 credits in one semester
9. The special problem course and seminar shall be counted as one credit each
10. A student can earn 02 credits one each for seminar and special problems.
11. One credit carries 20 marks e.g. a 03 credit course will carry 60 marks. Within a course the marks will be divided in accordance with the credits assigned to the theory and practical.
12. The supervisor shall send to DASAR through concerned chairman and Dean, a progress report related to the performance of student in research and course work at the end of each Academic Year.
13. Must obtain a CGPA of 3.0 at the end of Ph.D. program.
14. However, CGPA of 2.5 to <3.00 will qualify him for enrollment to next semester but this will only be allowed once in a program with a warning to improve his CGPA. If he fails to obtain a CGPA of 3.00 in the next semester, his admission shall be cancelled.
15. After completion of course work, a student with CGPA between 2.50 and <3.00 will be given one opportunity to improve CGPA for that semester by taking courses in which he obtained lower grades. This opportunity is given only once and if he fails, his admission stands cancelled.

#### **D.4. SUPERVISORY COMMITTEE**

1. Supervisory Committee shall be constituted from the Teachers/scientists recognized by BASAR in the field of study.
2. Supervisory Committee shall consist of three members to be approved by BASAR on the recommendations of concerned Departmental Board of Studies and forwarded by Dean of the Faculty.
3. Committee shall contain two members from major field of study and one from relevant field of study.
4. Additional member may be opted if necessary and if justified by the proposed research work

#### **D.5. SYNOPSIS**

1. A student is required to submit synopsis of the proposed research preferably in the second semester but not later than third semester duly signed and approved by his proposed supervisory committee to the chairperson of the concerned department for approval of Departmental Board of Studies.

2. The synopsis along with proposed supervisory committee, approved by concerned Board of studies shall be forwarded to Dean of the Faculty.
3. The Dean shall evaluate synopsis through a 3-member Technical committee within the Faculty and shall organize a seminar in the Faculty where student defend his proposed synopsis. After the revision (if necessary) the Dean shall forward synopsis to the Directorate of Advanced Studies and Research
4. The Technical Committee shall be comprised of two members from within the concerned department including supervisor and one member from the related field of study/ department from within the Faculty

#### **D.6. COMPREHENSIVE EXAMINATION**

1. Candidate must take comprehensive examination within two semesters (5<sup>th</sup> and 6<sup>th</sup>) after the successful completion of course work.
2. The candidate through his supervisor shall apply to the Chair person for the arrangement/ organization of comprehensive examination.
3. The examination shall cover entire fields of study and shall consist of a written part and an oral part.
4. The examination should assess student's knowledge and intellectual maturity and ability to integrate and assimilate the knowledge obtained from courses and other independent studies.
5. Student can only appear in oral part if he passes the written part.
6. Two examiners for Comprehensive examination shall be appointed by Vice Chancellor from the panel of 06 examiners proposed by departmental BOS.
7. To pass, student must obtain grade 'B' (65-79%) in written and oral part separately. The result shall be sent to the Controller of Examinations and DASAR by Chairman of the Department for information and record.
8. In case of failure as whole or part of exam, he will be given one more opportunity. He can re-appear not earlier than one semester and later than four semesters.
9. After passing the Comprehensive Examination, he/she then becomes candidate for Doctoral degree.

#### **D.7. THESIS**

1. Student can submit thesis after completion of course work and residency requirements (Three academic years) and passing of all examinations including comprehensive examination
2. Before submission, candidate must defend his thesis in an open seminar organized by DASAR at university level. Suggestions agreed upon by Committee shall be incorporated. He/she shall be assessed by Sup. Committee and if satisfactory, he will be allowed to submit thesis
3. Thesis must be original and scholarly contribution. The unbound thesis certified by Supervisory Committee shall be forwarded to DASAR by concerned Chairman through Dean. The DASAR after preliminary checking shall send the thesis to TWO external examiners preferably (from abroad).

4. Names of at least 06 scientists may be recommended by concerned BOS to Vice Chancellor who shall approve two names for the assessment of thesis.
5. Unbound thesis along with Soft copy on MS-Word or pdf shall be forwarded by concerned Chairman through Dean to DASAR for preliminary format checking.

#### **D.8. THESIS EXAMINATION**

1. Candidate shall be examined by two external examiners appointed by Vice Chancellor from a panel of 06 examiners proposed by concerned Departmental BOS through Dean of the concerned Faculty.
2. A panel of 05 examiners (02 external and 03 Internal examiners (members of Supervisory committee) shall examine the thesis and conduct viva voce Examination.
3. Thesis carries 400 marks and should be evaluated as:
  - Technical and general knowledge of subject (viva voce) = 25% (**100 marks**)
  - Subject matter of thesis such as originality, quality of research and document, relevance of review of literature, interpretation and discussion of results, conclusions and achievements of objectives = 50% (**200 marks**).
  - Technical aspects of presentation such as consistency, illustrations, figures/diagrams, references, grammar etc. = 25% (**100 marks**).
4. Supervisory committee shall ensure that the suggestions made by examiners are incorporated before the final binding of thesis
5. Four copies of final bound thesis along with C.D. (one copy each for central library, Controller of Examinations, Directorate of Advanced Studies and Research with CD and Faculty library) along with the result of the viva voce examination shall be submitted to the controller of examination for the declaration of result.
6. **Before award of degree, the student is required to:**
  - Furnish a letter countersigned by his supervisor along with the proof that he/she has submitted at least two research papers out of the thesis to foreign journals or local journals of International repute.
7. If the examiners determine that his/her thesis research work is not of Ph.D. standards, the candidate may be awarded M.Phil. degree by the Board of Advanced Studies and Research if recommended by the Examiners.

#### **MODIFICATION OF REGULATIONS**

These regulations are subject to modifications by the statutory bodies as and when felt appropriate/ necessary.