

DOCTOR OF PHILOSOPHY IN THE FACULTY OF ENGINEERING AND TECHNOLOGY

1. Every candidate for the degree of Doctor of Philosophy in Engineering shall be required to :-

- (a) produce a certificate that he has taken the Master of Engineering degree of this University or (subject to the sanction of the Research Board in Engineering) of any other University, whose degree is recognized as equivalent to the Master of Engineering degree of this University or has passed any other equivalent examination;
- (b) submit a thesis complying with the following conditions :-
 - (i) the greater portion of the work submitted therein must have been done subsequent to his passing the Master of Engineering Examination;
 - (ii) the work must contain some material contribution to knowledge and afford evidence of originality shown by the discovery of new facts, or by the exercise of independent critical power; and
 - (iii) a declaration in writing through his Supervisor or Head of the department, as the case may be, to the effect that the thesis submitted for Ph.D. degree is not substantially the same as the one already submitted by him to another university.

2. There shall be a Research Degree Committee in each discipline of Engineering viz., Aeronautical, Chemical, Civil, Electrical, Electronics and Electrical Communication, Mechanical, Metallurgy and Production which shall consist of :-

- (a) Dean of Faculty of Engineering and Technology;
- (b) All Professors of that particular discipline of Engineering;
- (c) Convener of the respective Board of Studies;
- (d)
 - (i) One Associate Professor and one Assistant Professor—one each from the Punjab Engineering College, Chandigarh and Guru Nanak Engineering College, Ludhiana, by seniority, by rotation.
 - (ii) One Reader and one Lecturer from the Department of Chemical Engineering & Technology, Panjab University, by seniority, by rotation.Provided that the relevant discipline exists at both the colleges.
- (e) One Professor of allied discipline to be appointed by the Vice-Chancellor.

The Research Degree Committee shall consider each application and decide whether in their opinion :-

- (a) the subject proposed for research; and
- (b) the supervisors recommended are suitable, and if so, they may recommend approval of the same. If, however, the Committee considers that the subject and/or the Supervisor are not suitable, they may either reject the application or may suggest suitable changes for reasons to be recorded.

3. The title of the thesis, the synopsis and the guides recommended by each Research Degree Committee shall be considered by the Research Board which shall consist of :-

- (a) Dean of the faculty of Engineering & Technology;
- (b) Principals of Engineering Colleges/Head of the Department of Chemical Engineering & Technology in case of the University Department;
- (c) Professors of Postgraduate courses in affiliated Engineering Colleges and Professors of Chemical Engineering and Technology Department;
- (d) Three experts nominated by the Syndicate on the recommendation of the Faculty;
- (e) One Specialist co-opted by the above members for the occasion.

The term of office of the Board shall be two years and the Board will meet ordinarily once in each quarter of calendar year.

4. Every candidate shall register himself with the University for which he shall pay a fee of Rs. 50. An external candidate shall not supplicate for Ph.D. until three years after such registration.

5. Every candidate shall furnish the Research Degree Committee concerned with a synopsis of his proposed thesis, but the title of the thesis need not be specified along with it.

The candidate may seek approval of the title of the thesis later but he shall submit the thesis not earlier than six months from the date of approval of the title.

If a candidate seeks permission to modify the title of his thesis, he shall submit the thesis not earlier than six months from the date of approval of the modified title but the Faculty may relax this limit if they decide that the modification is of minor nature.

6. The Research Degree Committee concerned shall decide the suitability of the proposed subject of thesis and shall also recommend a Supervisor whose duty shall be to guide the candidate and to certify as to the fitness of the thesis for examination. The Research Degree Committee may recommend joint Supervisors in any particular case if the problem is considered to be of an interdisciplinary nature involving more than one specialization.

7. External candidates can submit thesis only after residence for a period of two years subsequent to registration, within the territorial jurisdiction of the University and after having undertaken research in the University or its Constituent or affiliated colleges for this period. Every external candidate shall pay a supervision fee of Rs.10 per mensem, for at least 24 months, in addition to any laboratory or apparatus fee recommended by the Principal. This fee shall be retained by the college in which the candidate is working.

Explanation :- An external candidate shall be a person who does not fall in the category of internal candidates as defined in Explanation to Regulation 10.1 but is otherwise eligible for the Ph.D. degree.

8. It shall be one of the duties of the Supervisor to submit to the Research Degree Committee concerned a brief report about the work of the candidate after every six months of the period of research under him.

9. The candidate shall submit along with his application for Ph.D. degree four copies of his thesis neatly printed or type written or published in his own name, accompanied

by a fee (as may be prescribed by the Syndicate from time to time) and a certificate from his Supervisor or Head of the Department, as the case may be, of his having completed his research indicating the period for which the candidate has done research work and whether the thesis is worthy of consideration for award of Ph.D. degree.

The thesis shall be accompanied by a declaration signed by the candidate that it is entirely his own work; and a certificate that it has not previously formed the basis for the award of any degree. Diploma, associateship, fellowship or other similar title of recognition.

10.1. An internal candidate must have done research work on the approved subject for at least two years after Master of Engineering examination. He shall submit his thesis at any time within three years from the date of approval of the subject thereof by the Research Board.

Explanation :- For the purpose of this Regulation an internal candidate shall mean a person who has passed the Master of Engineering examination of the Panjab University or an equivalent examination of another University and is working as a member of the teaching staff or as a full-time/part-time research worker in a teaching Department of the Panjab University or a college affiliated to the Panjab University.

10.2. A staff member who has registered himself as an internal candidate and has worked for more than two years on the approved subject after Master of Engineering as a staff member of an affiliated college, shall be allowed to submit his thesis at any time within three years from the date of approval of the subject even after leaving the affiliated college provided that it must be certified by the Supervisor of the candidate that he had worked for more than 2 years on the approved subject after Master of Engineering as a staff member of an affiliated college.

11. Such application for extension must be submitted to the University before the expiry of date for submission of thesis. Such extension will be granted for one year at a time subject to a maximum of three years, beyond which ordinarily no further extension will be granted by the Research Board.

12. No conjoint research with the Supervisor shall be permitted in regard to the subject-matter of the thesis. The thesis must consist of the candidate's own work which must be his personal achievement, provided, however, that a candidate may submit, as subsidiary matter in support of his thesis, any printed contribution for the advancement of his subject which may be published independently or conjointly. Where such subsidiary matter is submitted the candidate shall indicate specifically his personal contribution to such conjoint work duly attested by the Supervisor.

13. Internal candidates may be permitted to carry on their research for the degree of Ph.D. in a *Research Institute approved by the Syndicate on the recommendation of the Research Board.

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- *1. National Aeronautical Laboratory, Bangalore, is recognised as a centre for Ph.D. research (Para 85, Syndicate proceedings dated 3-3-1963).
2. Central Board Research Institute, New Delhi, is recognised for Ph.D. research in the field of Highway Engineering (Para 81, Syndicate proceedings dated 27-6-1964).
3. Central Building Research Institute, Roorkee, is recognised for Ph.D. research in the subjects of Chemical Engineering, Applied Chemistry and Civil Engineering (Para 43, Syndicate proceedings dated 6-2-1965).
4. (i) C.S.I.O., Sector 30, Chandigarh;
 (ii) Institute of Research for Micro-biotechnology, Sector 39, Chandigarh;
 (iii) T.B.R.L., Sector 30, Chandigarh; &
 (iv) P.G.I., Sector 12, Chandigarh are recognised as Centres for Ph.D. research.

14. Every candidate for Ph.D. degree shall declare in his application form that the thesis submitted by him for the Ph.D. degree whether approved or rejected shall not be published without the permission of the Syndicate, provided that permission is not necessary, if only parts of the thesis are to be published in scholarly journals.

15.1. The thesis shall be referred to two external examiners appointed by the Syndicate on the recommendation of the Research Board and the Vice-Chancellor. Both the examiners shall read the thesis and shall satisfy themselves that the thesis is the candidate's own work and shall each present a report to the University stating :-

- (i) whether the degree be awarded to the candidate;
- (ii) whether the thesis is fit for publication by the candidate in its original form or any modified form;
- (iii) whether the thesis is of such outstanding merit that the University would be justified in publishing it at its own cost;
- (iv) whether the thesis be rejected;
- (v) whether the thesis be allowed to be resubmitted with improvement and for this purpose may make such suggestions as they deem fit. The candidate shall ordinarily resubmit the revised thesis after six months, unless he is permitted to submit it earlier in pursuance of the suggestions made by the examiners.

15.2. Except in the case of thesis which is rejected, viva voce shall be held in accordance with the rules prescribed by the Syndicate, before a final decision is given on the thesis. The examiners may send, if they so desire, along with their reports, questions for use by the Board conducting the oral examination. The Board shall be appointed by the Vice-Chancellor and shall consist of three members including the Head of the department and the Supervisor of the thesis.

15.3. The reports of the examiners referred to in 15.1 and 15.2 shall be considered by the Syndicate.

If there is a difference of opinion between the two examiners, i.e. one examiner recommends the award of the degree while the second recommends rejection or resubmission of the thesis. The Syndicate may refer the thesis to another examiner.

16.1. A thesis shall be resubmitted if so recommended by the examiners, only once, and it shall be examined by the examiners who assessed the original thesis unless both or any of them are unable or unwilling to do so.

16.2. A candidate who is required to resubmit the thesis must do so immediately on expiry of six months from the date of intimation of the decision of the University to him, unless extension is specially given by the Research Degree Committee concerned. However, such extension will not ordinarily be more than two years in any case. The revised thesis shall reach the University accompanied by half the amount of prescribed fee.

17. The Controller of Examinations shall publish the result in accordance with the decision of the Syndicate.

DIPLOMA COURSE IN REFRIGERATION AND AIR CONDITIONING

1. The course for the Diploma in Refrigeration and Air-Conditioning will be of one year's duration comprising two semesters known as (Part A and Part B).

The examination for the subjects of Part A shall be held at the end of the first semester, in the month of October/November, and for the subjects of Part B, at the end of the second semester, in the month of April/May, every year or on such dates as may be fixed by the Syndicate.

2. Supplementary examinations for both Part A and Part B shall be held in July/August, at least six weeks after the declaration of the April/May examinations results or on-such dates as may be fixed by the Syndicate.

3. Every candidate shall forward his application to the Controller of Examinations by 1st of March in case of the examination to be held in the month of April/May and by the fifteenth of September in the case of examination to be held in the month of October/November, accompanied by the prescribed fee and certificates mentioned under Regulations 7 and 8. The admission forms and fees for the supplementary examinations shall reach the Controller of Examinations at least two weeks before the commencement of the examinations.

4. Whenever the application or fee of the candidate is received more than three days after the last date prescribed in Regulation 3, he shall pay an additional fee as late fee as prescribed by the Syndicate from time to time, provided such application shall be entertained, only up to two weeks before the commencement of the examination.

5. The amount of examination fee to be paid by a candidate for Part A as also Part B shall be as prescribed by the Syndicate from time to time. A candidate appearing in one or more subjects or papers in the supplementary examination shall pay admission fee per paper for each semester exam, subject to a maximum fee prescribed for the examination concerned and the admission fee for reappear would be in addition to the admission fee charged for other semester examination, if any, as prescribed by the Syndicate from time to time, in which he was appearing.

6. All sessional marks duly moderated by the Board of Control in Chemical Engineering and countersigned by the Head of the Department shall reach the Controller of Examinations within 7 days of the termination of the theory/practical and/or viva voice examination.

7. The examination for Part A shall be open to a candidate who :-

- (a) has been on the rolls in the Department of Chemical Engineering and Technology during one semester preceding the examination for that part;
- (b) had passed B.Sc. examination of this University or an examination recognized as its equivalent, with at least second division marks before being enrolled in the department;
- (c) has his name submitted to the Controller of Examinations by the Head of the Department; and
- (d) produces the following certificates signed by the Head of the Department of Chemical Engineering and Technology :-
 - (i) of good moral character; and

- (ii) of having attended not less than 85 per cent of the total lectures (including tutorial) for all the theory subjects individually and not less than 85 per cent of the total periods assigned to laboratory and practical work including drawing, project etc. for all the practical subjects individually.

8. The examination for Part B shall be open to a candidate who :-

- (a) has been on the rolls in the Department of Chemical Engineering and Technology for one academic year preceding the examination; and
- (b) has his name submitted to the Controller of Examinations, by the Head of the Department along with the following certificates signed by the Head of the Department of Chemical Engineering and Technology :-
 - (i) of good character; and
 - (ii) of having completed not less than 85 per cent of the total attendances for lectures (including tutorials) in all theory subjects individually and not less than 85 per cent of the total periods assigned to laboratory and practical work including projects etc. for all the practical subjects individually.

9.1. Promotion from first semester to second semester shall be allowed to a student who has qualified to appear in Part A examination but fails to appear or having appeared in the examination fails to qualify in any paper/papers.

9.2. A candidate who fails in the first semester examination but obtains pass marks in some paper/papers shall be exempted from reappearing in that paper/papers. He/she shall be allowed to appear in that semester examination simultaneously with the second semester examination in April/May of the following year.

10. Lectures shall be counted up to 10 days previous to the date of commencement of examination.

11. The Head of the Department can condone absence up to a maximum of 10 per cent of attendance only in each subject in exceptional cases.

12. Every candidate shall appear and pass in all the subjects prescribed for the Diploma course.

The examination shall consist of :-

- (a) written papers;
- (b) sessionals (home work, class work and periodical tests in the various subjects including laboratory, workshops, drawings, etc); and
- (c) practical and/or viva voce in various subjects as detailed in the Scheme of Examination.

13. The minimum number of marks required to pass the examination shall be :-

- (a) 50 per cent in each written paper;
- (b) 50 per cent in the sessional part of each paper; and
- (c) 50 per cent in the practical and/or viva-voce part of each subject.

14. A candidate who fails in written papers, practical and/or viva voce examination will be allowed to appear in the supplementary examination in the written papers, practical and/or viva voce examination in which he has failed, without attending a fresh course of lectures/tutorials/practical. Deficiency in sessionals can be made up to 50 per cent marks only by doing extra assignments to the satisfaction of the Head of the Department.

15. Successful candidates shall be classified as under :

75 per cent and more.	..	1st division with distinction.
60 per cent and more	..	1st division.
Less than 60 per cent	..	2nd division.

MASTER OF TECHNOLOGY (MICRO-ELECTRONICS)

1. The duration of the course of the degree of M.Tech. (Micro-Electronics) for regular candidates shall be of three semesters-18 months. The maximum period in which such a candidate must qualify for the degree shall be four academic years, failing which he shall not be allowed to continue his studies for the course.

2.1 A person holding the following qualifications shall be eligible for admission to M.Tech. (Micro-Electronics) course :-

- (a) B.E./B.Tech. or equivalent degree in Computer Science & Engineering or Electrical or Electronics or Micro-Electronics or Electronics and Electrical Communication or Electronics and Telecommunication or Information Technology or Instrumentation Engineering or M.Sc. (Applied Physics) or M.Sc. (Physics) with specialization in Electronics or M.Sc. in Electronics (as approved by AICTE) with minimum 50% marks in aggregate.
- (b) a candidate who has passed A &B Sections of Institution of Engineers (Calcutta) Examination or I.E.T.E. Graduate Examination (conducted by the Institution of Electronics & Telecommunication Engineers, New Delhi), in the Engineering branches listed at 2.1 (a) with at least 50% marks may be admitted to M.Tech. (Micro-Electronics) course.

2.2. Admissions will be made as per procedure prescribed by the Syndicate from time to time.

3.1. The examination for the degree of M.Tech. (Micro-Electronics) shall have two semesters in a year. The examination for each semester shall be held in December/January and May/ June on such dates as fixed by the Syndicate.

3.2. The last date for receipt of examination admission forms and examination fee without and with late fee shall be fixed by the Syndicate.

3.3. The dates fixed by the Syndicate in accordance with Regulations 3.1 and 3.2 shall be notified by the Controller of Examinations.

3.4. A student who has remained on the rolls of the University Department in M.Tech. (Micro-Electronics) branch for the academic term of the semester concerned and produces the following certificates signed by the Head of the University Department or by the Principal of the College as the case may be, shall be eligible to appear in the examination in that semester :-

- (i) good character;
- (ii) having attended for each subject not less than 75% of the lectures and 75% of the total sessional work, in tutorials, design laboratory work and seminars and of having acquitted himself creditably in all the exercises or periodical examination conducted by the University Department or the College, as the case may be from time to time.

4. A deficiency in the required number of lectures and practicals may be condoned up to 10 per cent in each course by the Head of the University Department/Principal of the College, as the case may be, for reasons to be recorded.

5. The amount of admission fee to be paid by the candidate shall be as prescribed by the Syndicate from time to time.

6.1. Every candidate shall be required to offer for examinations :-

- (a) 10 theory papers out of the list approved by the Faculty of Engineering & Technology from time to time – selection to be made on the advice of the Head of the Department/Principal, provided that no candidate shall be allowed to enrol in more than five papers in each semester. Further no candidate shall be allowed to qualify in more than five papers at the end of the first semester of the first year of the course and not more than ten papers (including the papers passed in the first semester), at the end of the first year of the course.
- (b) A thesis, of which four neatly typed/printed copies properly bound, shall be submitted to the University.

6.2. The medium of Instruction and Examination shall be English.

7.1. The candidate shall pursue his/her thesis work under the supervision of the teacher concerned in the University Department/College/Collaborating Institution and a Joint Supervisor from any other Institution. If, however, the Head of the Department /Principal is satisfied that facilities for preparing the thesis exist elsewhere, he may allow that candidate to prepare his/her thesis there. However, a candidate shall spend a minimum period of four weeks under the direct supervision of his teacher or in the Department/College.

7.2. The thesis shall present an orderly and critical exposition of the existing knowledge on the subject or shall embody results of the original investigations and shall demonstrate the capacity of the candidate to do independent research work. While writing the thesis, the candidate shall lay out clearly the work done by him independently and the sources from which he has obtained other information contained in the thesis.

7.3. The thesis shall be submitted by the candidate at any time during the third semester of the course provided that he has appeared in all theory papers up to the third semester examination. The result of the thesis shall be declared after the candidate passes in all the 10 theory papers. In case, the candidate's thesis is rejected or he is unable to complete the thesis in the third semester, he will be allowed one more year at the maximum for submission of thesis or its revision.

Provided further that the extension beyond the above limit but not exceeding one year may be allowed by the Vice-Chancellor on the recommendation of the Principal/Head of the Department, as the case may be.

7.4. There shall be a viva voce test on the subject matter of the thesis. The examiners may, if they consider it necessary also require to undergo a written and/or a practical test.

8.1. The minimum number of marks required to pass the examination shall be :-

- (a) 40 per cent in each theory paper/course;
- (b) 50 per cent in the sessional/assessment part of each paper/course.

Both the theory examinations and sessional examinations will be considered independent of each other. Aggregate pass percentage will be 50%.

8.2. Subject to Regulation 1 a candidate who has failed in any paper/s may be allowed to reappear in any subsequent examination to pass the examination in that paper on the payment of

requisite admission fee per paper in each semester examination subject to a minimum of amount prescribed by the Syndicate for the examination concerned and admission fee charged for other semester examination, if any, in which he/she was appearing provided that such a candidate shall not be placed in the category of 'Pass with distinction'.

9. Successful candidates shall be classified as under :-

- (a) Those who obtain 75 per cent or more of the aggregate marks of all the theory papers and in sessional at least fifty per cent marks in each theory paper and also if the thesis has been adjudged to merit distinction, provided that the candidate concerned has cleared the examination in each paper at the first attempt. : Pass with Distinction
- (b) Those who pass all the theory papers and the sessional but are not entitled to be classified as having been placed in Pass with distinction. : Pass

10. Four weeks after the termination of each semester examination or as soon as possible, the Controller of Examinations shall publish the result. Every successful candidate shall receive a certificate of having passed that semester of the examination. A candidate who has passed all the semester examinations shall be awarded the degree in accordance with Regulations.

11. A person who has passed in all the theory papers but has not completed the thesis may be granted Post-graduate Diploma in Micro- Electronics.

M.TECH. (ENERGY ENGINEERING & MANAGEMENT)

(effective from the admissions of 2002-2003)

1. The duration of course for the degree of M.Tech. (Energy Engineering & Management) for regular candidate shall be four years (2 years). The maximum period in which such a candidate must qualify for the degree shall be four academic years, failing which he shall not be allowed continue his/her studies for the course.

2.1. A person holding the following qualifications shall be eligible for admission to M.Tech. (Energy Engineering & Management).

B.E./B.Tech. or equivalent degree in Chemical, Mechanical, Civil Production Engineering, Electrical Engineering, Agricultural Engineering, M.Sc. Physics, M.Sc. Energy, M.Sc. Chemistry with 55 per cent marks in aggregate.

2.2. Admission will be made as per procedure prescribed by the Syndicate from time to time.

2.3. A candidate who has passed A & B Sections of the Indian Institutions of Engineers (Calcutta) (AMIE) or Indian Institute of Chemical Engineers (Calcutta) (I.I.Ch.E.) with at least 55 per cent marks may be admitted to M.Tech. (Energy Engineering & Management) course provided that he has passed the entrance test.

3.1. The examination for the degree of M.Tech. (Energy Engineering & Management) shall be held in December/January and May/June on dates fixed by the Syndicate.

3.2. The last date for receipt of examination admission forms and examination fees without and with late fee shall be fixed by the Syndicate.

3.3. The dates fixed by the Syndicate in accordance with Regulations 3.1 shall be notified by the Controller of Examinations.

3.4. A student who has remained on the rolls of the University Department in M.Tech. (Energy Technology) Semester concerned and produced following certificate signed by the Director Energy Research Centre shall be eligible to appear in the examination in that semester :-

- (i) of good moral character;
- (ii) of having attended for each subject, not less than 75% of the lectures and 75% of the total sessional work, in tutorials design, laboratory work and seminars and of having acquitted himself creditably in all the exercises or periodicals examination conducted by the University Department from time to time.

4. A deficiency in the required number of lectures and practicals may be condoned up to 10 per cent by the Director Energy Research Centre.

5. The amount of admission fee to be paid by the candidates shall be prescribed by the Syndicate from time to time.

6.1. Every candidate shall be required to offer for examination :-

- (a) 10 theory papers out of the list approved by the Faculty of Engineering and Technology from time to time—selection be made on the advice of the Director Energy Research Centre provided that no candidate shall be allowed to qualify

in more than five papers at the end of the first semester of the first year of the course and not more than ten papers (including the papers passed in the first semester) at the end of the first year of the course.

- (b) A thesis of which four neatly typed or printed copies properly bound shall be submitted to the University.

6.2. The medium of Instruction and examination shall be English.

7.1. The candidate shall prepare his/her thesis under the supervision of the teacher concerned in the University/Department/Collaborating Institutions and a joint Supervisor from any other Institution, Industry/Corporation/other organization engaged in the area of Energy. If, however, the Director Energy Research Centre is satisfied that facilities for preparing the thesis exist elsewhere, he may allow that candidate to prepare his/her thesis there and his period shall be counted towards the requirement for M.Tech. (Energy Technology) but the candidate shall spend for completing his thesis, a minimum period of four weeks under the direct supervision of his teacher or the Director Energy Research Centre.

7.2. The thesis shall present an orderly and critical exposition of the existing knowledge of the subject, shall embody result of the original investigations and shall demonstrate the capacity of the candidate to do independent research work while writing the thesis, the candidate shall lay out clearly the work done by him independently and the source from which he has obtained other information contained in the thesis.

7.3. The thesis shall be submitted by the candidate at the end of the third semester of the course provided that he has appeared in all the theory papers of 1st and 2nd semester examination. The result of the thesis shall be declared after the candidate passes in all the 10 theory papers. In case the candidate's thesis is rejected or he/she is unable to complete the thesis in the third semester he/she will be allowed two more years at the maximum for submission of thesis of its revision.

Provided further that the extension beyond the above limit but exceeding two years may be allowed by the Vice-Chancellor on the recommendation of the Director Energy Research Centre as the may be.

7.4. There shall be viva voce test on the subject matter of the thesis. The examiners may, if they consider it necessary also require the candidate to undergo a written and of a practical test.

8.1. The minimum number of marks required to pass the examination shall be :-

- (a) 40 per cent in each theory paper;
- (b) 50 per cent in the sessional part of each paper;

8.2. Subject to Regulation 8.1 a candidate who has failed in any paper/s may be allowed to reappear in any subsequent examination to pass the examination in that paper on the payment of requisite admission fee per paper in each semester examination subject to a maximum of amount prescribed by the Syndicate for the examination concerned and admission fee charged for other semester examination, if any, in which he/she was appearing, provided that such a candidate shall not be placed in the category of pass with distinction.

9. Successful candidates shall be classified as under :-

- (a) Those who obtain 75% or more of the aggregate marks of all the theory papers and in the sessional at least fifty per cent marks in each theory papers and also if the thesis has been adjudged to merit that the candidate concerned has cleared distinction, provided the examination in each paper at the first attempt (i.e. the first time when a candidate actually takes the University examination in the concerned paper) : Pass with Distinction
- (b) Those who pass all the theory papers and the sessionals, but are not entitled to be classified as having been placed in Pass with distinction. : First Division

10. Four weeks after the termination of each semester examination or as soon as possible, the Controller of Examinations shall publish the result. Every successful candidate shall receive a certificate of having passed that semester of the examination shall be awarded the degree in accordance with Regulation

11. A person who has passed in all the theory papers but has not completed the thesis he/she shall be granted Post Graduate in Energy Technology.

(viii) Faculty of Medical Sciences

**BACHELOR OF MEDICINE AND BACHELOR OF SURGERY
(M.B.B.S.)**

1.1. The duration of the course of instruction for the degree of Bachelor of Medicine and Bachelor of Surgery (M.B.B.S.) including compulsory rotating housemanship shall be five and a half years.

1.2. There shall be three examinations, viz., First, Second and Final.

The First examination will be held at the end of 18 months, the Second examination at the end of 36 months and the Final examination at the end of 54 months of admission to the medical college.

After a candidate has passed the Final examination, there shall be a compulsory rotating housemanship as described in Regulation 8.

1.3. These examinations shall be held twice a year as follows or as decided by the Syndicate :-

First M.B.B.S.	2nd week in November and 2nd week in May
Second M.B.B.S.	2nd week in May and 2nd week in November
Final M.B.B.S.	2nd week in May and Part-I 2nd week in September.
Final M.B.B.S.	3rd week in November and Part-II 1st week in May.

1.4. The dates fixed for receipt of examination admission forms and fees, without and with late fee as fixed by the Syndicate from time to time, shall be notified by the Controller of Examinations.

2.1. A person who shall attain the age of 17 years or more on December 31st of the year of admission and has passed one of the following examinations shall be eligible to join the first year class of the course :-

1. 10+2 examination (medical group) of the Punjab School Education Board/ CBSE or any of its equivalent examination with at least 50 per cent marks in the aggregate of Physics, Chemistry, Biology provided he has passed English as a compulsory subject. However, in the case of Scheduled Castes/Tribes candidates, relaxation of 10 per cent and in the case of backward classes relaxation of 5% in the aggregate marks obtained shall be allowed.

Provided further that the candidate has passed the 10+2 examination in the first attempt.

2. B.Sc. examination of the Panjab University with at least 50 per cent marks in the aggregate of Physics, Chemistry, Botany and Zoology provided he has passed English as compulsory subject of the 10+2 examination of the Punjab School Education Board/CBSE or any of its equivalent examination. However, in the case of Scheduled Castes/Tribes candidates, relaxation of 10 percent and in the case of Backward classes, relaxation of 5% in the aggregate marks obtained shall be allowed.

A candidate may have passed in one or more of these subjects in an examination subsequent to his passing B.Sc. examination.

3. B.Sc. examination of the Panjab University in the First Division with any three subjects out of Physics, Chemistry, Botany, Zoology, Micro-biology, Biophysics, Physiology, Human Anatomy, Biochemistry, Mathematics and, Statistics and any of the Social Sciences if the student passed the 10+2 examination (medical group) of the Punjab School Education Board/CBSE or any of its equivalent examination with less than 50% marks.
4. M.Sc. examination of the Panjab University in the First Division in any subject out of Physics, Chemistry, Botany, Zoology, Microbiology, Bio-Physics, Physiology, Human Anatomy and Bio-chemistry, if the student passed the 10+2 examination (medical group) of the Punjab School Education Board/CBSE or any of its equivalent examination with less than 50% marks.

Provided that no one shall be permitted on the basis of :-

- (i) 10+2 examination (Medical group) or its equivalent examination passed as a late college student or in second subsequent attempt.
- (ii) 10+2/Pre-Medical certificate obtained after having passed the 10+2/Pre Engg. or equivalent examination, unless marks obtained in Biology if added to the marks already obtained in English, Physics and Chemistry in the 10+2/Pre Engg. examination become at least 50% marks of the fresh aggregate marks provided that the candidate has passed Biology within a year from passing Pre-Engineering examination.

2.2. (a) Only a person who has passed the First M.B.B.S. examination of the Panjab University shall be eligible to join the Second M.B.B.S. class.

(b) A student may be allowed to start training in para-clinical group of subjects after completion of the examinations in pre-clinical subjects but those who fail in any of the subjects must be reverted to the class of pre-clinical subjects.

2.3. A person who has passed the Second M.B.B.S. examination of the Panjab University shall be eligible to join the Final M.B.B.S. class.

2.4. A person who has passed First/Second M.B.B.S examination from another University whose standards and examinations are recognized by the Syndicate as equivalent to the standards and corresponding examinations of the Panjab University may be allowed to migrate in accordance with the Rules laid down by the Syndicate.

3.1. A student who possesses the qualification laid down in Regulation 2.1 and satisfies the following requirements duly certified by the Principal of a Medical College affiliated to the Panjab University for the M.B.B.S. Course, shall be eligible to appear in the First M.B.B.S. examination :-

- (a) of having good character;
- (b) of having been enrolled in the college for not less than 18 months preceding the examination and having successfully completed the stipulated period under Regulation 1.2;

- (c) of having attended not less than :-
 - (i) 75 per cent of the full courses of lectures delivered; and
 - (ii) 75 per cent of the full courses of practicals held, separately in Anatomy, Physiology and Biochemistry; and
- (d) of having undergone, for not less than 18 months, the following courses and having successfully completed the stipulated period under Regulation 1.2;
 - (i) Dissection of the entire body;
 - (ii) Histology;
 - (iii) Elements of Human Embryology;
 - (iv) The Principle of General Physiology, including Bio-physics and elementary normal Psychology;
 - (v) The Principles of Biochemistry;
 - (vi) Principles of Genetics;
 - (vii) Elements of the methods of clinical examination including the use of the common instruments and the examination of body fluids with demonstrations on both normal and abnormal living subjects;

Note : - The demonstration of structure and function in the teaching of Anatomy and Physiology shall be done as far as possible on the living human subject and should include the information to be obtained from radiology,
 - (viii) Statistics.

3.2. A student who possesses the qualifications laid down in Regulation 2.2 and satisfies the following requirements duly certified by the Principal of a Medical College affiliated to the Panjab University for the M.B.B.S., Course shall be eligible to appear in the Second M.B.B.S. examination :-

- (a) of having good character;
- (b) of having been enrolled in the College for not less than 18 months preceding the examination; and having successfully completed the stipulated period under Regulation 1.2.
- (c) of having attended not less than :-
 - (i) 75 per cent of the full course of lectures delivered; and
 - (ii) 75 per cent of the full course of practicals held, separately in Pharmacology, Pathology, Microbiology and Forensic Medicine.
- (d) of having studied :-
 - (i) Pharmacology including Pharmacotherapeutics and practical Pharmacology and practical Pharmacy;
 - (ii) Pathology-general and special pathology and Morbid Anatomy; Clinical and Chemical Pathology; Parasitology. Each student shall be required

to have received practical instruction in the conduct of autopsies and to have acted as a post-mortem clerk in at least 10 cases;

- (iii) Microbiology-Elementary General Bacteriology, Clinical Bacteriology; Immunology and Immunization; and
- (iv) Forensic Medicine. This course shall include instruction in the duties which devolve upon practitioners in their relation to the State and on the generally recognized rules of Medical Ethics.

3.3. A student who possesses the qualification laid down in Regulation 2.3 and satisfied the following requirements duly certified by the Principal of a Medical College affiliated to the Panjab University for the M.B.B.S. Course, shall be eligible to appear in the Final M.B.B.S. examination :-

- (a) of having good character;
- (b) of having been enrolled in the college for not less than 18 months preceding the examination and having successfully completed the stipulated period under Regulation 1.2.
- (c) has passed Second Professional M.B.B.S. examination not less than 11 months previously;
- (d) of having attended not less than :-
 - (i) 75 per cent of the full courses of lectures delivered; and
 - (ii) 75 per cent of the full courses of clinical demonstrations and practicals held, separately for each of the subjects in which he is to be examined and in the major and sub-specialities, i.e. Orthopaedic Surgery, Anaesthesia, Skin and V.D., T.B., Radiology, Psychiatry etc., etc.
- (e) of having been engaged in practical work at a recognised hospital for a period of 2 $\frac{3}{4}$ years to the satisfaction of the Head of the college after passing the First Professional M.B.B.S. examination; and
- (f) of having undergone the following courses :-
 - (1) preventive and Social Medicine (syllabus as approved by the Medical Faculty) :-

Written Paper	..	100 marks
Viva	..	50 marks
Practical and Clinical	..	30 marks
Internal Assessment	..	20 marks

The college shall submit to the University the Internal assessment marks obtained by the candidates in each subject before the commencement of the theory examinations. These marks should be submitted through the Principal on the prescribed Performa.

- (2) Medicine, including :-
 - (a) Course of systematic instruction in the principles and practice of medicine including paediatrics;

- (b) a course of instruction in the Principles and practice of preventive and social medicine;
- (c) a medical clinical clerkship for a period of nine months, of which six months be spent in the hospital wards and three months in the out-patient department;
- (d) a clinical clerkship for not less than three months and should include social paediatrics and neonatology, growth and development, and paediatric surgery.

3 months clerkship shall be divided as follows :-

Paediatric Medicine	..	6 weeks
Neonatology	..	2 weeks
Social paediatrics including growth and development	..	2 weeks
Paediatric Surgery	..	2 weeks

Explanation -By introducing 3 months clerkship for Paediatrics (which will also include Social Paediatrics, Neonatology, Growth and Development and Paediatric Surgery) there will be no change required in the period of clerkship prescribed for other subjects i.e. Medicine along with subspecialities. Surgery and its subspecialities, Ophthalmology and ENT, Obst. & Gynaecology.

- (e) lectures or demonstrations in Clinical Medicine and attendance on general inpatient and out-patient practice during at least two years, which may run concurrently with the surgical practice;
- (f) instruction in Therapeutics and prescribing, including (i) Pharmacological therapeutics (ii) the methods of treatment of vaccines and sera (iii) Physiotherapy (iv) dietetics and (v) the principles of nursing;
- (g) instruction in Applied Anatomy and Applied Physiology throughout the period of clinical studies;
- (h) Instruction throughout the period medical clerkship of clinical Pathology including theory and practice of immunisation;
- (i) attendance at each of the following department for a period of 15 days out of which not more than six shall be for lecture demonstrations :-
 - (1) Infectious Diseases Hospitals.
 - (2) Tuberculosis.
 - (3) Psychological Medicine and Psychiatry.
 - (4) Diseases of Skin, Leprosy and Venereal Diseases.
 - (5) Radiology and Electrotherapeutics in their application to medicine.

(6) Dietetics and Principles of Nursing.

Instruction in these subjects (1) to (6) may run concurrently with the course of instruction in Medicine and training in (6) may be given in the Department of Medicine.

- (3) Surgery, including :-
- (a) a course of systematic instruction in the principles and practice of surgery;
 - (b) a surgical dressership for a period of nine months of which six months must be spent in the hospital wards and three months in the out-patient department;
 - (c) during the period of surgical ward training a continuous period of 15 days as an intern clerk in the Casualty Department during which the student will be in residence in the hospital or close by where special emphasis will be laid on traumatic surgery, resuscitation measures and improvisation in the field;
 - (d) lectures or demonstrations in Clinical surgery and attendance on general in-patient and out-patient practice during at least two years which may run concurrently with medical practice under 2(e);
 - (e) practical instruction in surgical methods, including physiotherapy;
 - (f) practical instruction in minor surgery;
 - (g) a course of institution in operative surgery;
 - (h) instruction in Applied Anatomy and physiology throughout the period of clinical studies;
 - (i) instruction in Clinical Pathology throughout the period of surgical dressership;
 - (j) instruction in and attendance at each of the following departments for a period of 15 days out of which not more than six shall be for lecture demonstrations :-
 - (1) Radiology and Electrotherapeutics in their application to Surgery;
 - (2) Orthopaedics;
 - (3) Anaesthesiology including instruction in the Administration of anaesthetics.

Instruction in 1 - 3 may run concurrently with the course of instruction in surgery.

Note :- Each student during this period of clinical clerkship and surgical dressership in the wards shall have continuously in his sole charge as clinical clerk and dresser respectively not less than 5 beds.

In calculating the number of beds available for teaching purposes, all beds which are so used can be included, but provision of beds available for teaching purposes should be such that number of beds to students annually admitted into the College does not fall below the ratio of 5: 1, of which not less than one-third shall be devoted to general medicine and one-third to general surgery.

- (4) Midwifery, Diseases of Women and Infant Hygiene, including :-
- (a) course of systematic instruction in the principles and practice of Midwifery, Gynaecology and Infant Hygiene including the Applied Anatomy and Physiology of Pregnancy and Labour;
 - (b) lectures demonstrations in clinical Midwifery, Gynaecology and infant Hygiene and attendance on the practice of a maternity hospital or the maternity wards of a general hospital including, (a) ante-natal and (b) the management of the puer-perium and on in-patient and out-patient gynaecological practice for a period of at least three months.

This period should be devoted exclusively to instruction in these subjects, and should be subsequent to the medical clinical clerkship Section I (c) and the surgical dressership Section II (b). Not less than two-thirds of the hours of clinical instruction should be given to midwifery, including ante-natal care and infant Hygiene.

- (c) of this period of clinical instruction not less than one month should be spent as a resident pupil either in a maternity hospital or in a hostel attached to a maternity hospital or to the maternity wards of a general hospital.

The student should during this month conduct at least 20 cases of labour under adequate supervision.

A certificate showing the number of cases of labour attended by the student in the maternity hospital and in the patient's homes respectively should be signed by a responsible medical officer on the staff of the hospital and should state :

- (i) that the student has personally conducted each case during the course of labour making the necessary abdominal and other examinations under the supervision of the certifying officer, who should describe his official position;
 - (ii) that satisfactory written histories of the cases conducted including when possible ante-natal and post-natal observations were presented by the student and initialed by the supervising officer.
- (5) (a) Ophthalmology, including refraction and the use of ophthalmoscope; with hospital attendance for a period of two months.

- (b) Diseases of the ear, nose and throat including the use of the otoscope laryngoscope and rhinoscope. Attendance for a period of one month, out of which not more than six shall be for lecture demonstrations.

- N.B.* (1) Throughout the period of study of clinical subjects, the attention of the students should be directed by the teachers of these subjects, to the importance of preventive aspects. Emphasis should be laid on practical training rather than on didactic lectures.
- (2) Professional examinations are to be conducted with a view to ascertaining the candidate's knowledge in fundamental and basic principles of the subjects; examination of detail should be scrupulously avoided.

3.4. A deficiency in the required number of lectures, clinicals and practicals may be condoned by the Principal up to the extent of 5 per cent.

3.5. A candidate who has completed the prescribed course as laid down in these regulations and is unable to appear in the examination, or, having appeared has failed, may be admitted to subsequent examinations, as under, on payment of the prescribed fee on each occasion, and on presenting a certificate signed by the Principal of the Medical College in which he completed the course, that he has, subsequent to his last failure, attended a course of training/hospital practice, in the subjects of the examinations as the Principal may determine :

First M.B.B.S. .. next three consecutive examinations; a candidate who is unable to qualify in both the subjects, viz., Anatomy and Physiology in four consecutive chances including the first chance to which he was entitled, shall not be allowed to continue his studies for the Medical course.

Second and final .. One or more subsequent examinations.
M.B.B.S.

4.1. The examination will be held according to the syllabus prescribed by the Senate.

4.2. The medium of examination shall be English.

4.3. Every candidate shall offer the following subjects :-

First M.B.B.S.	1.	Anatomy	..	400 marks
	2.	Physiology including Biochemistry	..	400 marks
Second M.B.B.S.	1.	Pathology including Microbiology	..	400 marks
	2.	Pharmacology	..	400 marks
	3.	Forensic Medicine	..	200 marks
Final M.B.B.S.	1.	Preventive and Social Medicine	..	200 marks
	2.	Medicine	..	400 marks
	3.	Midwifery and Gynaecology	..	400 marks
	4.	Surgery and Operative Surgery	..	400 marks
	5.	Ophthalmology and Diseases of the Ear, Nose and Throat	..	400 marks

4.4. Ten per cent of the total marks in each subject of every examination shall be allotted to certified class-work including day-to-day work and periodical class examinations 5 per cent shall form a part of the theory work and 5 per cent for clinical (in the case of clinical subject) or practical in the case of other subjects.

4.5. A candidate who does not fulfil the conditions laid down for all the subjects for the examination, may be allowed to take the examination in the subject in which he has fulfilled the conditions.

5. The amount of examination fee to be paid by a candidate for First, Second & Final M.B.B.S. shall be as fixed by the Syndicate from time to time.

A candidate on reappearing shall pay admission fee per subject for each examination subject to a maximum of the fee prescribed for the examination concerned and the admission fee for reappear would be in addition to admission fee charged for other examination, in which he was appearing.

6.1. In order to get through a subject a candidate must secure :-

- A. 50% marks out of the total marks of Clinical and Practical and 1/2 Internal Assessment and 1/2 Oral marks combined together.
- B. 50% marks out of total marks of Theory 1/2 Internal Assessment and 1/2 Oral marks combined together.

6.2. A candidate who obtains pass marks in one or more subjects, shall be exempted from reappearing in such subject provided that :-

- (a) in the case of First M.B.B.S. examination, he must qualify in both the subjects within the period prescribed in Regulation 3.5.
- (b) in the case of Second and Final M.B.B.S. examination, he clears the whole of the examination within a period of two years from the time the candidate first appeared in the examination, failing which he shall have to appear in all the subjects.

7.1. The Controller of Examinations shall publish the result two weeks after the termination of the examination or as soon as possible.

7.2. Successful candidates who obtain 75 per cent marks in any subject shall be declared to have passed "with distinction" in that subject provided he passes in all the subjects of the examination at one and the same time.

7.3. Distinction shall be awarded to a candidate when all the four examiners reevaluate the answer-books and jointly conduct the viva-voce examination of the candidate.

7.4. M.B.B.S. Degree with "Honours" shall be awarded to a candidate who :-

- (a) has completed the course in the minimum period; and
- (b) has passed each of the First, Second and Final Part I and Final Part -II examinations in the first attempt obtaining not less than 70% of the marks in each of the subject of every examination.

7.5. A successful candidate of the First/Second Final Part I examination shall be granted a certificate.

A successful candidate of the Final M.B.B.S. Part II examination shall be granted the degree after he has completed the Post-examination training prescribed in Regulation 8.

8.1. Compulsory rotating internship. Every candidate, on passing the Final M.B.B.S. examination, shall undergo in an institution approved by the Faculty of Medical Sciences 12 months' training as laid down by the Faculty of Medical Sciences before he is allowed full registration by the State Medical Council.

8.2. At the end of training in any department, the Head of the Department shall forward to, the Principal of the College a report on attendance, character and knowledge of the subject after due assessment. In case, the Head of the Department is not satisfied, the training in the subject shall be repeated.

BACHELOR OF AYURVEDIC MEDICINE & SURGERY (B.A.M.S.)

1.1. The duration of the course of instruction for the degree of Bachelor of Ayurvedic Medicine & Surgery (B.A.M.S.) including one year compulsory internship shall be five and a half years.

1.2. There shall be three examinations viz., First, Second and Final. The First examination will be held at end of 18 months, the Second examination at the end of 36 months and the Final examination at the end of 54 months i.e. after one and half years of the Second Professional examination.

After a candidate has passed the Final examination, there shall be a compulsory internship as described in Regulation 6.

1.3. The dates fixed for receipt of examination admission forms and fees, shall be as fixed by Syndicate from time to time.

2.1. A person who shall attain the age of 17 years as on 31st December in the year of admission and has passed 10+2 examination from the recognized Boards/Bodies/Councils or any other examination recognized as equivalent to 10+2 examinations by the Panjab University with Physics, Chemistry and Biology obtaining at least 50% marks in the aggregate after qualifying the entrance test shall be eligible to join the first year class of the course. In the case of candidates, belonging to Scheduled Castes/Scheduled Tribes, the percentage of aggregate marks required would be relaxed by 5% and thus it would be 45%.

2.2. The mode of admission to the course shall be as prescribed by the University from time to time.

3.1. FIRST PROFESSIONAL EXAMINATION (to be held at the end of 1½ years) :-

- (i) The First Professional period shall ordinarily start from 1st day of July and end 31st December next year. The examination shall ordinarily be completed by the end of December/January. The supplementary examination of First Professional shall be ordinarily held within two months of declaration of result of main examination. The candidate be allowed two chances after the First Professional Examination. Admission of the candidate to B.A.M.S. courses, who is unable to clear all the subjects of First Professional Examination within the admissible chances, will stand cancelled.

However, a student failing in one or more subjects of First Professional Examination may be allowed to continue in Second Professional course.

- (ii) A candidate who has failed in Dec./Jan. and May/June examination shall be permitted to continue studies to the next higher class but shall not be allowed to sit for the examination of the next professional till he has cleared all the subjects of the lower class.
- (iii) The First Professional B.A.M.S. examination shall be held in the subjects prescribed in the syllabus and the candidate shall be required to pass all subjects.
- (iv) The candidates, before presenting themselves for this examination shall

obtain a certificate from the Principal of his/her college for having completed the prescribed course of theory and practicals in the prescribed subjects of the First Professional examination.

- (v) A candidate failing in one or more subjects in examination shall be eligible to appear in Supplementary examination.

Candidates who fail to pass the First Professional examination in the admissible chances as mentioned above shall not be allowed to continue their studies. However, in the case of personal illness/accident of a serious nature of a candidate or other unavoidable conditions/circumstances, the Vice-Chancellor may permit them one or more chances only in lieu of the chance/s missed by them for passing the First Professional course.

3.2. SECOND PROFESSIONAL EXAMINATION (to be held at the end of three years) :-

- (i) The Second Professional course shall ordinarily start in January/February following the First Professional examination and the examination shall be held ordinarily in May/June of the year after completion of three years.
- (ii) The Second Professional examination shall be held after 1½ years after First Professional examination in the subjects prescribed in the syllabus.
- (iii) A candidate must pass atleast one subject for being eligible to appear in supplementary examination.
- (iv) The supplementary examination to Second Professional shall be held ordinarily in December/January and those who remain failed in one or more subjects in Supplementary examination shall be eligible to appear in the subsequent Second Professional examination.

Such candidates shall be allowed two chances after the Second Professional Annual Examination to clear all the subjects of second professional examination, failing which he/she shall have to appear in all the subjects of the examination after joining the College.

- ### 3.3.
- (i) The Final Professional examination shall be held one and a half years after the second Professional examination and shall comprise the subjects as prescribed in the syllabus.
 - (ii) If a candidate remains failed in one or more subjects in Final Professional Examination. He/she shall be eligible to appear in those subjects in subsequent Final Professional Examination which may be held ordinarily after every six months or at such time as the competent authority may determine from time to time.

4. MIGRATION

- (a) Both Principals should agree to the migration of the student.
- (b) Migration be from one recognized college to another recognized college.
- (c) Request for the migration should come within three months of declaration of results of the I, II and III examinations of parent University, there should be no objection to the migration.

5. The amount of examination fee to be paid by the candidates for First, Second and Final Professional examinations shall be prescribed by the Syndicate from time to time.

6. COMPULSORY INTERNSHIP*

- (a) The compulsory rotating Internship shall be completed in a recognized or Govt. Teaching Ayurvedic Hospital/Government Ayurvedic Hospital/Dispensary in the State of Punjab or Union Territory of Chandigarh for a period of 12 months after passing the final examination.
- (b) On full completion of the internship as certified by the Principal on the recommendations of the authorities under whom the training was done by the candidate shall be eligible for the award of Ayurvedacharya (Bachelor of Ayurvedic Medicine and Surgery) Degree.

7. Only those students who fulfil the following requirements shall be allowed to appear in the BAMS First, Second/Final examination :-

- (a) of having been on the rolls of the college throughout the period of 1½ years each preceding the first, second and final examinations and two years preceding the final examinations;
- (b) of having good character;
- (c) of having attended not less than 75 percent of the full course of :-
 - (i) Lectures delivered; and
 - (ii) Demonstration and practicals held
 } separately in each subject.

Provided that the Principal of the college shall be empowered to condone shortage up to 5% of the total lectures delivered in each subject in theory and practicals separately which includes all kinds of periods i.e. leave, sports, function, etc. **

- 8.** (a) Ten per cent of the total marks in each subject shall be allotted to certified class work and periodic class examinations both written and practical.
- (b) The minimum marks required to pass the examination shall be 50% in each subject including internal assessment for the written examination and 50% in each subject including internal assessment for the practical examination.
- (c) Successful candidates who have obtained 75% or more in any subject shall be declared to have passed “with Distinction” in that subject provided they passed in all the subjects of the said examination at one and the same time.

9. The medium of instruction and examination shall be Sanskrit/Hindi/Punjabi.

10. The number of students to be admitted to 1st year of B.A.M.S. Course shall be as decided by the appropriate University authority from time to time.

* Twelve months internship shall start immediately after the completion of Final Professional Examination. In case of failure, this period would not be counted towards the completion of twelve months internship required under the rules. For such students, the internship shall restart from the date they complete the course in the next examination. The distribution of duties during internship shall be strictly followed as laid down by the Central Council of Indian Medicine.

** A student who is unable to appear in the examination owing to shortage of lectures in the prescribed course in a subject/subjects may be allowed to appear at the next examination if he makes up the deficiency of lectures in the subjects concerned by attending lectures at a college affiliated to the Panjab University.

11. The number of papers and marks for Theory and Practical for B.A.M.S. examination shall be as decided by the appropriate/competent authority from time to time.

12. Grace marks :-

- (i) 1 % of the total aggregate marks including the marks of practical and internal Assessment may be awarded to a candidate who fails in one or more subjects in order to declare him to have passed the examination.
- (ii) A candidate who fails in one or more subjects may be given grace marks up to one per cent in each subject separately in order to declare him eligible for earning exemption in a subject(s).
- (iii) A candidate who gets exemption in certain subject(s) and reappears in that/those subject(s) may be given grace marks up to one per cent of marks in each subject separately only in those subjects in which he actually reappears in order to declare him to have passed the examination and/or who with this benefit become eligible for earning exemption in a subject or subject(s).

13. As soon as possible after the examination, the Controller of Examinations shall publish a list of candidates who have passed and successful candidate shall be granted Detailed Marks Certificate for each examination and for Final Professional Examination the degree shall be issued only after completion of internship.

14. The candidate shall be awarded AYURVEDACHARYA (Bachelor of Ayurvedic Medicine and Surgery) degree only after completion of prescribed courses of study extending over the prescribed period, passing the final examination and satisfactorily completing of twelve months compulsory internship after the completion of final professional examination.

BACHELOR OF HOMEOPATHIC MEDICINE AND SURGERY (B.H.M.S.)

(effective from the session 2002-2003)

1.1. The duration of the course of instruction for the degree of Bachelor of Homeopathic Medicine & Surgery (B.H.M.S.) including one year compulsory internship shall be five & a half years.

1.2. There shall be four examinations viz. First, Second, Third & Fourth. The First Examination will be held at the end of 18 months, the Second Examination at the end of 30 months, third examination at the end of 42 months & fourth examination at the end of 54 months.

After a candidate has passed the final examination, there shall be a compulsory internship as described below :-

COMPULSORY INTERNSHIP

2.1. The internship shall be undertaken at the Hospital attached to the College & in cases where such Hospital cannot accommodate all of its students for internship, such students may undertake their internship in a Hospital or dispensary run by the Central Government or State Government or local bodies.

2.2. At the completion of the internship of the specified period & on the recommendation of the head of the Institution where internship was undertaken, the concerned State Board of University, as the case may be, shall issue the Degree to the successful candidate.

3. A person who shall attain the age of 17 years as on 31st December in the year of admission & has passed 10+2 examination from the recognized Boards/Bodies/Councils or any other examination recognized as equivalent to 10+2 examinations by the Panjab University with Physics, Chemistry & Biology after qualifying the entrance test shall be eligible to join the first year class of the Course.

4. The mode of admission to the Course shall be as prescribed by the University from time to time.

5. First professional B.H.M.S. Examination (to be held at the end of 1½ Years)
Scheme of Examination :-

- (i) Any undergraduate may be admitted to the First B.H.M.S. examination provided that he has regularly attended the following courses of instruction in the subjects of the examination, theoretical & practical for not less than one & half yeas at a Homeopathic Medical College to the satisfaction of the Head of such College.
- (ii) The first Professional period shall ordinarily start from 1st day of September & end of February next year. The examination shall ordinarily be completed by the end of March. The Supplementary examination of First Professional shall ordinarily be held within six weeks of declaration of result of main examination. The candidate be allowed three more chances (a total of four chances as per rules) after the First Professional Examination.

- (iii) However, a student failing in one or more subjects of First Professional Examination may be allowed to continue in Second Professional courses.
- (iv) A candidate who has failed in B.H.M.S. Ist Professional Annual Examination shall be permitted to continue studies to the next higher class but shall not be allowed to sit for the examination of the next professional till he has cleared all the subjects of the lower class.
- (v) The First Professional B.H.M.S. examination shall be held in the subjects prescribed in the syllabus & the candidates shall be required to pass all subjects.
- (vi) Pass marks in all subjects both Homeopathic & Allied Medical subjects shall be 50% in each part (written, oral & practical).
- (vii) A candidate securing 75% or above marks in any of the subjects shall be declared to receive honours in that subject provided he has passed the examination in the first attempt.
- (viii) The candidates, before presenting themselves for this examination shall obtain a certificate from the Principal of his/her college for having completed the prescribed course of theory & practicals in the prescribed subjects of the first professional examination.
- (ix) A candidate failing in one or more subjects in examination shall be eligible to appear in Supplementary examination.

Candidates who fail to pass the First Professional Examination in the admissible chances as mentioned above shall not be allowed to continue their studies. However, in the case of personal illness/accident of a serious nature of a candidate or other unavoidable conditions/circumstances, the Vice-Chancellor may permit them one or more chances only in lieu of the chances missed by them for passing the first professional course.

- (x) Second Professional B.H.M.S. Examination (to be held at the end of 2½ Years).
- (xi) The Second Professional Course shall ordinarily start in April following the First Professional Examination & the examination shall be held ordinarily in March of next year after completion of 2½ years.
- (xii) The Second Professional examination shall be held after one year after First Professional Examination in the subjects prescribed in the syllabus and the candidate shall be required to pass all subjects.
- (xiii) The supplementary examination to Second Professional shall be held ordinarily in September & those who remain failed in one or more subjects in Supplementary examination shall be eligible to appear in the subsequent Second Professional Examination.
- (xiv) Pass Marks in all subjects Homeopathic & Allied Medical subjects shall be 50% in each part (written, oral & practical).
- (xv) A candidate securing 75% or above marks in any of the subjects shall be declared to receive honours in that subject provided he has passed the examination in first attempt.

6. Fourth Professional B.H.M.S. Examination (to be held at the end of 4½ Years) :-

- (i) No candidate shall be admitted to the Fourth B.H.M.S. Examination unless :-
 - (a) he has passed the 3rd B.H.M.S. Examination at least one year previously.
 - (b) has regularly attended B.H.M.S. 4th Professional Subjects prescribed in the syllabus & the candidate shall be required to pass all the subjects.
- (ii) If a candidate remains failed in one or more subjects in 4th Professional examination, he/she shall be eligible to appear in those subjects in subsequent 4th Professional Examination which may be held ordinarily after every six weeks or at such time as the competent authority may determine from time to time.
- (iii) Pass marks in all subjects both Homeopathic & Allied Medical subjects shall be 50% in each part (written, oral/practical).
- (iv) A candidate securing 75% or above marks in any of the subjects shall be declared to receive honours in that subject provided he has passed the examination in first attempt.

7. Results and readmission to examination :-

- (i) Every candidate for admission to an examination shall 21 days before the date fixed for the commencement of the examination send to the authority concerned his application in the prescribed form alongwith the examination fee.
- (ii) As soon as possible after the examination the examining body shall publish a list of successful candidates arranged in the following manner :-
 - (a) The names and roll numbers of the first ten candidates in order of merit; and
 - (b) The roll numbers of other arranged serially.
- (iii) Every candidate on passing shall receive a certificate in the form prescribed by the examining body concerned.
- (iv) A candidate who appears at the examination but fails to pass in subject or subjects may be admitted to a supplementary examination in the subject or subjects of that part of the examination in which he has failed after six weeks from the publication of result of the first examination on payment of the prescribed fee along with an application in the prescribed form.
- (v) If a candidate obtains pass marks in the subject or subjects at the supplementary examination he shall be declared to have passed at the examination as whole.
- (vi) If such a candidate fails to pass in the subject or subjects at the supplementary examination he may appear in that subject or subjects again at the next annual examination on production of a certificate (in addition to the certificate required under regulations) to the effect that he had

attended to the satisfaction of the principal, a further course of study during the next academic year of the subject or subjects in which he had failed, provided that all the parts of the examination shall be completed within four chances (including the supplementary one) from the date when the complete examination came into force for the first time.

- (vii) If a candidate fails to pass in all the subjects within the prescribed four chances, he shall be required to prosecute a further course of study in all the subjects and in all parts for one year to the satisfaction of the Head of the college and appear for examination in all the subjects.

Provided that if a student appearing for the Fourth B.H.M.S. examination has only one subject to pass at the end of prescribed chances, he shall be allowed to appear at the next examination in that particular subject and shall complete the examination with this special chance.

- (viii) the examining body may, under exceptional circumstances, partially or wholly cancel any examination conducted by it under intimation to the Central Council of Homeopathy and arrange for conducting re-examinations in these subjects within a period of thirty day from the date of such cancellation.

8. Only those students who fulfil the following requirements shall be allowed to appear in the B.H.M.S. first, second, third & fourth examination :-

- (a) of having been on the rolls of the College throughout the period of 1½ years of B.H.M.S. Ist Professional & one year each of B.H.M.S. 2nd , 3rd & 4th Professional Examinations;
- (b) of having good character;
- (c) of having attended not less than 75% of the full course of :-
- (i) Lectures delivered; and
- (ii) Demonstration and practicals held separately in each subject.

Provided that the Principal of the College shall be empowered to condone shortage up to 5% of the total lectures delivered in each subject in theory & practicals separately which includes all kinds of period i.e. leave, sports, functions etc.

M.SC. PHYSIOLOGY

(effective from the session 2003-2004)

1. The duration of the course for M.Sc. in Physiology shall be two academic years.
2. The system of examination i.e. whether annual or semester, will be adopted as prescribed in the rules.
3. A candidate who has passed one of the following examinations of Panjab University or any other University recognized by the Syndicate as equivalent thereto, shall be eligible for admission to M.Sc. Physiology :-
 - (a) B.Sc. (with Anatomy, Physiology and Biochemistry);
 - (b) B.Sc. Human Biology/Life Science;
 - (c) B.Sc. (Honours School in Physiology/Zoology/Biochemistry/Biophysics/Biotechnology);
 - (d) B.Sc. with Zoology, Botany, Chemistry/Biochemistry.
4. Qualifying marks for examination :-
 - (i) A candidate shall be declared to have passed the examination if he/she obtains 50% marks in each theory paper and 50% marks in practicals in the 1st year and 2nd year separately;
 - (ii) The weightage given towards internal assessment for each theory paper and practical (Part I and Part II) shall be 10% of the total marks allocated. The marks for internal assessment for theory are derived from the cumulative performance in various theory tests conducted from time to time, by the department. The marks for internal assessment for practicals are given based on performance in practical tests conducted by the department from time to time;
 - (iii) Thesis would be adjudged as “Satisfactory” or “Unsatisfactory” and ‘Satisfactory’ should be taken as pass.
 - (iv) A candidate who fails in the examination (Part I or Part II) after having completed the prescribed courses or fails to appear in the examination for valid reasons can appear in the supplementary examination. The marks for the internal assessment for the completed year will be credited for the said examination.
 - (v) If a candidate does not pass in 3 attempts, he/she will not be allowed to continue his studies for the M.Sc. examination in Physiology. However, the maximum duration of the course shall not exceed 3 years from his/her date of admission to the course. The candidate has to pass the Part I examination for being eligible to appear for Part II examination. If the candidate has the thesis accepted but fails in Part II examination, he/she is not required to submit thesis again.
5. Every candidate for the M.Sc. Physiology Part I examination shall complete the following requirements and intimate the same through Principal of the college :-

Of having attended not less than 75% of all the lectures delivered and practicals

conducted separately (the course to be counted up to one month before the date of commencement of the examination). The examination in Part II shall be open to a student of the University who produces the following certificates signed by the Head of the Institution :-

- (a) Of having passed M.Sc. Part I examination in Physiology;
- (b) Of having attended not less than (i) 75% of the full course of lectures delivered to his class in each of the prescribed papers (the course to be counted up to one month before the date of commencement of the examination and (ii) 75% of the practical classes prescribed in the syllabus;
- (c) He/she should have submitted his/her thesis as directed by the Supervisor;
- (d) A candidate who fails in Part I examination will be allowed to continue his studies in Part II but will be allowed to appear in Part II examination subject to the condition that he/she clears Part I examination.

6. The last date for receipt of admission form and fee with and without late fee as fixed by the Syndicate shall be notified by the Controller of Examinations.

7. Classification of successful candidates :-

As soon as possible after the completion of the examination, the Controller of Examinations shall publish a list of successful candidates. Each candidate who appears in Part I or II examination will receive a detailed marks card.

8. The successful candidates shall be classified into divisions as under on the basis of total aggregate marks of Part I and Part II examination taken together :-

- | | | | |
|-------|--|----|------------------------------------|
| (i) | Those who obtain 75% or more having passed the examination in first attempt. | .. | First Division
with Distinction |
| (ii) | Those who obtain 60% or more of the total aggregate marks but less than 75% marks. | .. | First Division |
| (iii) | Those who obtain 50% or more of the total aggregate marks but less than 70% marks. | .. | Second Division |

DOCTOR OF MEDICINE (M.D.)

1.1. The duration of the course of instruction for the degree of Doctor of Medicine (M.D.) shall be 36 months for both clinical and basic subjects.

1.2. The examination shall consist of (i) a thesis, (ii) four theory papers, oral, clinical and practicals and shall be held twice a year ordinarily in June/July and December/January on such dates as may be fixed by Syndicate. A candidate shall select one subject out of the list of Group A or B as given in Regulation 4.

1.3. The date of commencement of the examination and the last dates for receipt of examination admission form and fee as fixed by the Syndicate from time to time shall be notified by the Controller of Examinations.

2. A person who fulfils the following requirements shall be eligible to appear in the examination :-

has passed at least three years previously the examination :-

(i) for the degree of Bachelor of Medicine and Bachelor of Surgery of the Panjab University;

or

(ii) for the degree of Bachelor of Medicine and Bachelor of Surgery of any other University recognized by the Medical Council of India and approved by the Syndicate of this University on the recommendation of the Faculty of Medical Sciences.

3.1. A student who possesses the qualifications laid down in Regulation 2 and produces the following certificates signed by the Head of the Department concerned and countersigned by the Head of the College/Institution affiliated to the University for M.D. course where he received the training shall be eligible to appear in the examination :-

(i) of good character;

(ii) of having completed training for a period of not less than 36 months for both clinical and basic subjects in a College/Institute affiliated to this University for the Doctor of Medicine course.

Provided that :-

(A) The period for which candidate has worked as an Assistant Registrar, Registrar or Research Officer or Research Assistant after completion of Compulsory Rotatory Internship for 12 months in clinical subjects and Lecturer, Tutor, Demonstrator, in basic Subjects, or in any equivalent job (approved by the Dean, Faculty of Medical Sciences in a Medical College/Institute affiliated to the University for the M.D. course, shall also count as a period of training required in (ii);

(B) The Post-Graduate training for M.D. courses in the Medical Institutions affiliated to the Panjabi University, Patiala, may be accepted for purposes of Regulation 3.1.

3.2. A person who has completed the training in an affiliated College/Institute as required in Regulation 3.1 and has failed in the examination may appear again in a subsequent examination without further training, and without submitting a new thesis.

4.1. The following shall be the various groups of subjects for the examination :-

Group A – (*Clinical Subjects*)

1. General Medicine.
2. Tuberculosis and Chest Diseases.
3. Obstetrics & Gynaecology.
4. Paediatrics.
5. Radiodiagnosis.
6. Community Medicine.
7. Psychiatry.
8. Dermatology, Venereology and Leprosy.
9. Anaesthesiology.
10. Physical Medicine & Rehabilitation.

Group B – (*Basic Subjects*)

1. Anatomy
2. Physiology.
3. Pharmacology.
4. Pathology.
5. Microbiology.
6. Biochemistry.
7. Biophysics.

4.2. The following shall be the titles of the four papers in each subject :-

Group A – (*Clinical Subjects*)

Medicine :

- | | | |
|-----------|----|---------------------------------------|
| 1st Paper | .. | Basic Sciences as related to Medicine |
| 2nd Paper | .. | Principles of Medicine |
| 3rd Paper | .. | Practice of Medicine |
| 4th Paper | .. | Applied Pathology and Microbiology |

Tuberculosis and Chest Diseases :

- | | | |
|-----------|----|---|
| 1st Paper | .. | Basic Sciences as related to Tuberculosis and Respiratory diseases |
| 2nd Paper | .. | Principles and practice of Tuberculosis (Pulmonary and Non-Pulmonary) |

3rd Paper .. Principles and practice of Non-Tuberculosis and Chest diseases

4th Paper .. General principles of Medicine as related to Tuberculosis and Respiratory diseases.

Obstetrics & Gynaecology :

1st Paper .. Basic Sciences as related to Midwifery and Gynaecology.

2nd Paper .. Midwifery including diseases of neonates.

3rd Paper .. Obstetrical and Gynaecological Pathology.

4th Paper .. Gynaecology.

Radiotherapy :

1st Paper .. Basic Sciences Physics as applied to Radiotherapy.

2nd Paper .. Principles of Radiotherapy.

3rd Paper .. Pathology as related to Radiotherapy

4th Paper .. Practice of Radiotherapy.

Radiodiagnosis :

1st Paper .. Basic Sciences and Physics as applied to Radiodiagnosis.

2nd Paper .. Principles of Radiodiagnosis.

3rd Paper .. Radiodiagnosis as related to Pathology.

4th Paper .. Practice of Radiodiagnosis.

Radiotherapy and Radiodiagnosis :

1st Paper .. Basic Sciences including Physics as applied to Radiology.

2nd Paper .. Principles and Practice of Radiodiagnosis.

3rd Paper .. Pathology as related to Radiology.

4th Paper .. Principles and Practice of Radiotherapy.

Paediatrics :

1st Paper .. Basic Sciences as related to Paediatrics.

2nd Paper .. Principles and Practice of Paediatrics.

3rd Paper .. Prevention and Social Aspects of Paediatrics and Disease of infants.

4th Paper .. General Medicine.

Social and Preventive Medicine :

1st Paper .. Basic Sciences including Statistics.

2nd Paper .. Community Medicine including Sanitation.

3rd Paper .. Preventive Medicine and Microbiology.

4th Paper .. Preventive and Social Medicine as applied to Medicine and Surgery.

Psychiatry :

- 1st Paper .. Basic Sciences related to Psychiatry.
- Part A .. Geuro Anatomy, Neurophysiology and Psycho-pharmacology.
- Part B .. Clinical and Social Psychology.
- 2nd Paper .. Clinical Psychiatry.
- 3rd Paper .. Psychiatric Theory and Psychiatric Specialities.
- 4th Paper .. Neurology and General Medicine as related to Psychiatry.

Dermatology, Venereology and Leprosy :

- 1st Paper .. Basic Sciences as related to Dermatology.
- 2nd Paper .. Principles and Practice of Dermatology, Venereology and Leprosy.
- 3rd Paper .. Pathology and Bacteriology in relation to leprosy, Skin and venereal disease.
- 4th Paper .. General Medicine.

Anaesthesiology :

- 1st Paper .. Basic Sciences as applied to anaesthesia.
- 2nd Paper .. Principles and practice of Surgery including preoperative assessment, Post-Operative care, resuscitation and management of shock etc.
- 3rd Paper .. Principles and practice of Anaesthesia including advances in Anaesthesia.
- 4th Paper .. Clinical Sciences other than Surgery, as related to Anaesthesia.

Physical Medicine & Rehabilitation :

- 1st Paper .. Basic Sciences applied to Physical Medicine & Rehabilitation.
- 2nd Paper .. Clinical Physical Medicine & Rehabilitation.
- 3rd Paper .. Major Allied Disciplines (Physical Medicine, Rheumatology and Rehabilitation including recent advances).
- 4th Paper .. 'Minor' Applied Disciplines.

Group B – (*Basic Subjects*)

Anatomy :

- 1st Paper .. Surgery as applied to Anatomy.
- 2nd Paper .. Gross Human Anatomy including Radiological Anatomy and Forensic Anatomy.
- 3rd Paper .. Embryology Microscopic Anatomy.
- 4th Paper .. Applied Anatomy.

Physiology :

- 1st Paper .. Subjects allied to Physiology and History of Physiology.
- 2nd Paper .. Systemic Physiology I
- (i) Nerve;
 - (ii) Muscle;
 - (iii) Neurophysiology;
 - (iv) Special senses;
 - (v) Endocrinology; and
 - (vi) Reproduction.
- 3rd Paper .. Systemic Physiology II :
- (i) Blood including Immunology;
 - (ii) Cardiovascular system;
 - (iii) Respiratory system;
 - (iv) Renal system;
 - (v) Gastrointestinal system;
 - (vi) Metabolism;
 - (vii) Nutrition; and
 - (viii) Environmental Physiology;
- 4th Paper .. Applied Physiology or Clinical Physiology.

Pharmacology :

- 1st Paper .. Clinical Sciences as related to Pharmacology.
- 2nd Paper .. General Pharmacology and Bioassay.
- 3rd Paper .. Experimental Pharmacology.
- 4th Paper .. Applied Pharmacology and Toxicology.

Pathology :

- 1st Paper .. Applied Pathology including Patho-Physiology.
- 2nd Paper .. General Principles of Pathology including Immunology.
- 3rd Paper .. Special Pathology including molecular Biology.
- 4th Paper .. Any one of the following subjects :
- (i) Haematology;
 - (ii) Immunopathology;
 - (iii) Cytology and Cytogenetics;
 - (iv) Experimental Pathology including Cancer Research.

Microbiology :

- 1st Paper .. Applied Microbiology.
- 2nd Paper .. General Principles of Microbiology including Tissue Reactions to Microbial Infections.
- 3rd Paper .. Systematic Bacteriology, Mycology and Virology.
- 4th Paper .. Any one of the following subjects :
- (i) Bacteriology;
 - (ii) Immunology;
 - (iii) Virology;
 - (iv) Mycology;
 - (v) Parasitology.

Pathology and Microbiology :

- 1st Paper .. Clinical Sciences as applied to Pathology and Microbiology.
- 2nd Paper .. General and Special Pathology.
- 3rd Paper .. Bacteriology Virology and Parasitology.
- 4th Paper .. Clinical Pathology including Chemical Pathology.

Biochemistry :

- 1st Paper .. Clinical Sciences as related to Biochemistry.
- 2nd Paper .. Biochemistry of Metabolism.
- 3rd Paper .. Biochemistry of Hormones, Vitamins and Enzymes.
- 4th Paper .. Clinical Biochemistry.

Biophysics :

- 1st Paper .. Medical Biophysics.
- 2nd Paper .. Elements of Biophysics.
- 3rd Paper .. Principal of Biophysical Chemistry.
- 4th Paper .. Cytophysics and Radiation Biophysics.

5. The amount of admission fee to be paid by a candidate for examination in Theory Papers, Oral, Clinicals, and Practicals and for the thesis shall be as prescribed by the Syndicate from time to time.

6.1. A candidate shall apply within nine months of registration to the Registrar for approval of subject of his thesis. Such applications shall be considered by the Faculty of Medical Sciences four times a year in the months of March, July, October and December.

This application shall be duly certified by the Head of the College/Institute in which the candidate is studying before it is sent to the Registrar.

The Head of the Department/College/Institute shall certify that all necessary facilities for supervision of the candidate's work will be provided. The thesis shall be on a subject connected with the Science and Practice of Medicine.

An application received after any of the above dates will be deemed to have been received on the following dates fixed above. For example, if an application is received after the 1st of January, it will be deemed to have been received on the 1st of April for purposes of consideration by the Faculty of Medical Sciences.

A candidate who is unable to apply for approval of the subject of thesis within the time allowed may apply for exemption of time, which may be granted :-

- (i) Up to one month .. By the Dean Faculty of Medical Sciences.
- (ii) Up to three months .. By the Vice-Chancellor.

In case a candidate fails to apply within nine months and the three months period of extension as admissible under the regulations and submits his synopsis after the period of one year, his training period would be extended by six months.

6.2. In addition to the College/Institutes affiliated for the M.D. Course, the following Hospitals are recognised for carrying on research and preparation of thesis (not for training) :-

1. I.N.H.S. Ashvani Hospital, Bombay.
2. Air Force Hospital, Secunderabad.
3. Military Hospital, Bangalore.
4. Military Hospital, Calcutta.
5. Military Hospital, Namkum (Ranchi).

6.3. The thesis shall conform to the requirements laid down in this Regulation and should be submitted at least six months before the commencement of the examination and accepted before the declaration of the final result. The consent of the external examiners appointed for evaluation of the thesis should be obtained sufficiently well in advance to avoid delay in evaluation.

6.4. Every candidate shall submit :-

- (a) 3 copies of his thesis;
- (b) 3 copies of the original plan already submitted by him at the time of registration, to the Registrar through the Head of his College/Institute accompanied by
 - (i) A certificate from the supervisor testifying that the technique and statistics mentioned in the thesis were undertaken by the candidate himself.
 - (ii) A fee as prescribed by the Syndicate from time to time.

6.5. The thesis shall be examined separately by two examiners appointed by the Syndicate, on the recommendation of the Faculty. They shall report whether the thesis is accepted, or rejected or the candidate be allowed to re-submit the thesis after revision. If the examiners disagree, Syndicate shall appoint a 'third' examiner who shall be an expert in the same speciality as the examiner-rejecting the thesis. The 'Third' examiner shall be appointed on the recommendation of the Dean of the Faculty of Medical Sciences. If the thesis is accepted, it shall be classified as accepted; commended, or highly commended, and the result will be communicated to the candidate. Every approved thesis shall become the property of the Panjab

University and may be placed in the Library of the College/Institute concerned. If the thesis is rejected the candidate may be required either to re-write the thesis or to take up another subject. The examiner rejecting the thesis shall point out in writing the defects and make suggestions for improvements and modifications, if a revision will render it acceptable. The revised thesis shall be submitted to the University not later than one year from the date of intimation of result accompanied by half the amount of the prescribed fee.

6.6. A candidate whose thesis has been accepted but who fails in the examination may be allowed to reappear in a subsequent examination, but his thesis shall not be evaluated again. He shall pay the admission fee as prescribed in Regulation 5.

7.1. The examination shall be conducted by a Board of four examiners appointed by the Syndicate on the recommendation on the Faculty of Medical Sciences.

The Board of examiners shall determine in consultation with one another, all details of the examination.

7.2. The Board of examiners shall report to the Controller of Examinations, for duplication, the result of the examination classifying the successful candidates as under :

- | | | |
|----------|----|-------------------|
| (a) Pass | .. | Ordinary. |
| (b) Pass | .. | With distinction. |

7.3. On receipt of the result from the Board of Examiners, the Controller of Examinations shall publish it as soon as possible. A candidate shall be declared successful only when he has passed the examination and the thesis has been accepted.

7.4. Each successful candidate shall be granted a diploma.

DOCTOR OF MEDICINE (D.M.)

1. The examination for the degree of Doctor of Medicine (D.M.) shall be held twice a year at Amritsar or Chandigarh in the months of March and September or on such other dates as may be decided by the Syndicate.

2. Every candidate for admission to the examination shall be required to produce the following certificates :-

- (i) of having passed at least two academic years previously, the M.D. in Group A examination from the Panjab University or from any other University recognised for this purpose;

or

M.R.C.P. examination from the University of London or the University of Edinburgh;

or

any other examination recognised by the Syndicate on the recommendation of the Faculty of Medical Sciences;

- (ii) of having subsequent to obtaining one of the degrees mentioned in (i) above, received training in an Institution approved by the Faculty of Medical Sciences for two academic years in the special field in which the candidate wishes to qualify.

3. Every candidate shall forward his application to the Registrar at least 12 weeks before the date fixed for the commencement of the examination, accompanied with admission fee as prescribed by the Syndicate from time to time. All applications received shall be considered by the Faculty of Medical Sciences and admission of each candidate will be decided by the Faculty. A candidate who is not accepted by the Faculty of Medical Sciences shall have no claim of any kind, but his admission fee will be refunded.

4. Every candidate shall be required to offer one of the following subjects for the degree of Doctor of Medicine (D.M.) :-

1. Chest Diseases.
2. Neurology.
3. Cardiology.
4. Tropical Diseases.
5. Gastroenterology.
6. Endocrinology.

or

7. Any other speciality approved by the Medical Faculty.

5. The examination in each subject shall consist of-

- (a) Theory papers .. two
- (b) Oral, Clinical and practical examination.

6. The examination shall be conducted by a Board of 4 examiners appointed by the Syndicate on the recommendation of the Faculty of Medical Sciences.

The Board of examiners shall, in consultation, determine all details of the examination.

7. There shall be no thesis.

Provided that the candidates who seek admission after having passed M.R.C.P. examination from the University of London or the University of Edinburgh shall be required to submit a thesis/dissertation.

8.1. The thesis/dissertation shall conform to the requirements laid down in this Regulation and may be submitted at any time within seven years but not earlier than six months from the date on which application was entertained.

The thesis/dissertation shall embody the result of the candidate's own research and/or experience and shall contain precise reference to the publications quoted, and must attain a good standard and shall be satisfactory in literary presentation and in other respects and should end with a summary embodying conclusions arrived at by the candidate. The thesis shall be typewritten on one side of the paper (size 11" x 8 ½") with margins of 1½" on each side, bound in cloth, indicating on the outside cover its title and the name of the candidate.

8.2. Every candidate shall submit—

- (a) 3 copies of his thesis/dissertation;
- (b) 3 copies of the original plan already submitted by him at the time of registration to the Registrar.

through the Head of his College/Institute, accompanied by :-

- (i) a certificate from the supervisor testifying that the technique and statistics mentioned in the thesis/dissertation were undertaken by the candidate himself.
- (ii) A fee as fixed by the Syndicate from time to time.

8.3. The thesis/dissertation shall be examined separately by two examiners appointed by the Syndicate, on the recommendation of the Faculty. They shall report whether thesis/dissertation is accepted or rejected or the candidate be allowed to re-submit thesis after revision. If the examiners disagree, Syndicate shall appoint a 'third' examiner who shall be an expert in the same speciality as the examiner rejecting the thesis/dissertation. The 'third' examiner shall be appointed on the recommendation of the Dean of the Faculty of Medical Sciences. If the thesis/dissertation is accepted, it shall be classified as accepted, commended, or highly commended, and the result will be communicated to the candidate. Every approved thesis/dissertation shall become the property of the Panjab University and may be placed in the Library of the College/Institute concerned. If the thesis/dissertation is rejected the candidate may be required either to re-write the thesis or to take up another subject. The examiner rejecting the thesis/dissertation shall point out in writing the defects and make suggestions for improvements and modifications, if a revision will render it acceptable. The revised thesis/dissertation shall be submitted to the University not later than one year from the date of intimation of the result accompanied by half the amount of the prescribed fee.

8.4. A candidate whose thesis/dissertation has been accepted but who fails in the examination may be allowed to reappear in the subsequent examination, but his thesis/dissertation

shall not be evaluated again. He shall pay the admission fee as prescribed in Regulation 3.

9. As soon as is possible, after the examination, the Board shall report to the Controller of Examinations for publication of the result of the examination. Successful candidates shall be classified into lists as under :-

- | | | | |
|-----|------|----|------------------|
| (a) | Pass | .. | Ordinary |
| (b) | Pass | .. | with distinction |

Each successful candidate shall be granted a diploma.

MASTER OF SURGERY (M.S.)

1.1. The duration of the course of instruction for the degree of Master of Surgery (M.S.) shall be 36 months for both clinical and basic subjects.

1.2. The examination shall consist of (i) a thesis and (ii) four theory papers, oral, clinical and practicals and shall be held twice a year ordinarily in June/July and December/January on such dates as may be fixed by Syndicate. A candidate shall select one subject out of the list of Group A or B as given in Regulation 4.

1.3. The date of commencement of the examination and the last dates for receipt of examination admission form and fee as fixed by the Syndicate from time to time, shall be notified by the Controller of Examinations.

2. A person who fulfils the following requirements shall be eligible to appear in the examination :-

has passed at least three years previously the examination :-

(i) for the degree of Bachelor of Medicine and Bachelor of Surgery of the Panjab University;

or

(ii) for the degree of Bachelor of Medicine and Bachelor of Surgery of any other University recognised by the Medical Council of India and approved by the Syndicate of this University on the recommendation of the Faculty of Medical Sciences.

3.1. A student who possesses the qualifications laid down in Regulation 2 and produces the following certificates signed by the Head of the Department concerned and countersigned by the Head of the College/Institute affiliated to the University for M.S. course where he received the training shall be eligible to appear in the examination :

(i) of good character;

(ii) of having completed training for a period of not less than 36 months for both clinical and basic subjects, in a college/institute affiliated to this University for the Master of Surgery course.

Provided that :

(A) The period for which a candidate has worked as an Assistant Registrar, Registrar or Research Officer or Research Assistant after completion of compulsory Rotatory Internship for 12 months in clinical subjects and Lecturer, Tutor, Demonstrator, in basic subjects, or in any equivalent job (approved by the Dean of Faculty of Medical Sciences) in a Medical College/Institute affiliated to the University for the M.S. course, shall also count as a period of training required in (ii);

(B) The Post-Graduate training for M.S. courses in the Medical Institutions affiliated to the Panjabi University, Patiala, may be accepted for purposes of Regulation 3.1.

3.2. A person who has completed the training in an affiliated College/Institute as required in Regulation 3.1 and has failed in the examination may appear again in a subsequent examination without further training, and without submitting a new thesis.

4.1. The following shall be the various group of subjects for the examination :

Group A—(*Clinical Subjects*)

1. General Surgery.
2. Ophthalmology (Eye).
3. Ear, Nose and Throat.
4. Orthopaedics.

Group B—(*Non-Clinical Subject*)

Anatomy

4.2. The following shall be the titles for the four papers in each subject :—

Group A—(*Clinical Subjects*)

Surgery :

- | | | |
|-----------|----|---------------------------------------|
| 1st paper | .. | Basic Sciences as applied to Surgery. |
| 2nd paper | .. | Principles and Practice of Surgery. |
| 3rd paper | .. | Surgical Pathology. |
| 4th paper | .. | Operative Surgery. |

Ophthalmology (Eye) :

- | | | |
|-----------|----|---|
| 1st paper | .. | Anatomy and Physiology including optics of the eye. |
| 2nd paper | .. | General Ophthalmology including Surgery. |
| 3rd paper | .. | Pathology of the Eye. |
| 4th paper | .. | Ophthalmic Medicine. |

Ear, Nose and Throat :

- | | | |
|-----------|----|---|
| 1st paper | .. | Anatomy and Physiology of Ear, Nose and Throat. |
| 2nd paper | .. | Principles and Practice of Ear, Nose and Throat. |
| 3rd paper | .. | Surgical Pathology and Operative Surgery of Ear, Nose and Throat. |
| 4th paper | .. | Principles of General Surgery. |

Orthopaedics :

- | | | |
|-----------|----|---|
| 1st paper | .. | Basic Sciences as related to Orthopaedics. |
| 2nd paper | .. | Principles and Practice of Orthopaedics. |
| 3rd paper | .. | Special Pathology and Operative Orthopaedics. |
| 4th paper | .. | Principles of General Surgery. |

Anatomy :

- 1st paper .. Surgery as applied to Anatomy.
- 2nd paper .. Gross Human Anatomy including Radiological and Forensic Anatomy.
- 3rd paper .. Embryology and Microscopic Anatomy.
- 4th paper .. Applied Anatomy.

5. The amount of admission fee to be paid by a candidate for the examination in Theory papers, Oral, Clinicals and Practicals and for the thesis shall be as prescribed by the Syndicate from time to time.

6.1. A candidate shall apply within 9 months of registration to the Registrar for approval of the subject of his thesis. Such applications shall be considered by the Faculty of Medical Sciences four times in a year in the months of March, July, October and December.

This application shall be duly certified by the Head of the College/Institute in which the candidate is studying before it is sent to the Registrar.

The Head of the Department/College/Institute shall certify that all necessary facilities for supervision of the candidate's work will be provided. The thesis shall be on a subject connected with the Science and Practice of Medicine.

An application received after any of the above dates will be deemed to have been received on the following date fixed above. For example, if an application is received after the 1st of January, it will be deemed to have been received on the 1st of April for purposes of consideration by the Faculty of Medical Sciences.

A candidate, who is unable to apply for approval of the subject of thesis within the time allowed, may apply for extension of time, which may be granted :-

- (i) Up to one month : By the Dean, Faculty of Medical Sciences.
- (ii) Up to three months : By the Vice-Chancellor.

6.2. In addition to the Colleges/Institutes affiliated for the M.S. Course, the following Hospitals are recognised for carrying on research and preparation of thesis (not for training) :

1. I. N. H. S. Ashvani Hospital, Bombay.
2. Air Force Hospital, Secunderabad.
3. Military Hospital, Bangalore.
4. Military Hospital, Calcutta.
5. Military Hospital, Namkum (Ranchi)

6.3. The thesis shall conform to the requirements laid down in this Regulation and should be submitted at least three months before the commencement of the examination and accepted before the declaration of the final result. The consent of the external examiners appointed for evaluation of the thesis should be obtained sufficiently well in advance to avoid delay in evaluation.

The thesis shall embody the result of the candidate's own research and/or experience and shall contain precise reference to the publications quoted, and must attain a good standard

and shall be satisfactory in literary presentation and in other respects and should end with a summary embodying conclusions arrived at by the candidate. The thesis should be typewritten on one side of the paper (size 11"×8½") with margins of 1½" on each side, bound in cloth, indicating on the outside cover its title and the name of the candidate.

6.4. Every candidate shall submit :-

- (a) 3 copies of his thesis;
- (b) 3 copies of the original plan already submitted by him at the time of registration.

to the Registrar, through the Head of his College/Institute, accompanied by :-

- (i) A certificate from the Supervisor testifying that the technique and statistics mentioned in the thesis were undertaken by the candidate himself.
- (ii) A fee as fixed by the Syndicate from time to time.

6.5. The thesis shall be examined separately by two examiners appointed by the Syndicate, on the recommendation of the Faculty. They shall report whether the thesis is accepted, or rejected or the candidate be allowed to re-submit the thesis after revision. If the examiners disagree, Syndicate shall appoint a 'third' examiner who shall be an expert in the same speciality as the examiner rejecting the thesis. The 'third' examiner shall be appointed on the recommendation of the Dean of the Faculty of Medical Sciences. If the thesis is accepted, it shall be classified as accepted; commended or highly commended, and the result will be communicated to the candidate. Every approved thesis shall become the property of the Panjab University and may be placed in the Library of the College/Institute concerned. If the thesis is rejected, the candidate may be required either to re-write the thesis or to take up another subject. The examiner rejecting the thesis shall point out in writing the defects and make suggestions for improvements and modifications if a revision will render it acceptable. The revised thesis shall be submitted to the University not later than one year from the date of intimation of result accompanied by half the amount of the prescribed fee.

6.6. A candidate whose thesis has been accepted but who fails in the examination may be allowed to reappear in a subsequent examination, but his thesis shall not be evaluated again. He shall pay the admission fee as prescribed in Regulation 5.

7.1. The examination shall be conducted by a Board of four examiners appointed by the Syndicate on the recommendation of the Faculty of Medical Sciences.

The Board of examiners shall determine in consultation with one another, all details of the examination.

7.2. The Board of Examiners shall report to the Controller of Examinations, for duplication, the result of the examination classifying the successful candidates as under :

- (a) Pass .. Ordinary
- (b) Pass .. With distinction.

7.3. On receipt of the result from the Board of Examiners, the Controller of Examinations shall publish it as soon as possible. A candidate shall be declared successful only when he has passed the examination and the thesis has been accepted.

7.4. Each successful candidate shall be granted a Diploma.

BACHELOR OF DENTAL SURGERY (B.D.S.)

1.1. The duration of the course of instruction for the degree of Bachelor of Dental Surgery (B.D.S.) shall be four years.

1.2. There shall be four examinations, viz., First, Second, Third and Final. The First examination shall be held at the end of first year, the Second examination at the end of second year, the Third examination at the end of third year and the Final examination at the end of fourth year.

1.3. These examinations shall be held twice a year on the following dates :-

(a) Second Monday in April;

and

(b) First Monday in September.

1.4. The dates for receipt of examination admission forms and fees without and with late fee as fixed by the Syndicate from time to time shall be notified by the Controller of Examinations.

2.1. A person who has attained the age of 16 years or more on March 31 of the year of admission and possesses one of the following qualifications shall be eligible to join the first year class of the course :-

- (1) Pre-Medical examination of the Panjab University with at least 48 per cent marks in the aggregate of English, Physics, Chemistry and Biology.
- (2) B.Sc. Final examination of the Panjab University with at least 48 per cent marks in the aggregate of Physics, Chemistry, Botany and Zoology, provided he has qualified in English of the Pre-Medical standard. A candidate may have qualified in one or more of these subjects at an examination subsequent to his passing B.Sc. Final examination.
- (3) B.Sc. Final Examination of the Panjab University in the First Division with any three subjects out of Physics, Chemistry, Botany, Microbiology, Biophysics, Zoology, Physiology, Human Anatomy, Biochemistry and Mathematics, Statistics and any of the Social Sciences if the student passed the Pre-Medical examination of the Panjab University with less than 48 per cent marks.
- (4) M.Sc. examination of the Panjab University in the First Division in any subject out of Physics, Chemistry, Botany and Zoology, if the student passed the Pre-Medical examination of the Panjab University with less than 48 per cent marks.
- (5) Any examination of another University/Board, recognised by the Syndicate as equivalent to the Pre-Medical examination of this University, with at least 48 per cent marks in English, Physics, Chemistry and Biology, provided that no one will be admitted on the basis of :-
 - (i) Pre-Medical Certificate obtained as a result of second attempt, after first having passed the examination from this or any other recognised University.

- (ii) Pre-Medical Certificate obtained after appearing in the examination as a private candidate i.e. other than as a regular student or a late college student.
- (iii) Pre-Medical certificate obtained after having passed the Pre-Engineering or equivalent examination unless marks obtained in Biology if added to the marks obtained in English, Physics and Chemistry at the Pre-Engineering examination are at least 48 per cent in the aggregate.

2.2. (a) A person who has passed the First B.D.S. examination of the Panjab University or an examination of any other recognised University in India considered equivalent for the purpose by the Syndicate on the recommendation of the Faculty of Medical Sciences, shall be eligible to join the Second B.D.S. class. However, a candidate who fails in the First B.D.S. examination in the April examination for the first time may be allowed to attend the next higher class until October next, but if he fails in the September examination, he shall revert to the First B.D.S. class.

- (b) A candidate who has obtained :-
 - (i) the M.B.B.S. degree of an Indian University; or
 - (ii) any other medical qualification
 } considered equivalent for this purpose
 } by the Syndicate on the recommendation
 } of the Faculty of Medical Sciences.
- (iii) or has passed the subjects of Anatomy and Physiology of the First M.B.B.S. examination of the Panjab University shall be exempted from the First B.D.S. examination except in the subject of Dental Metallurgy.

2.3. (a) A person who has passed the Second B.D.S. examination of the Panjab University or an examination of any other recognised University, in India considered equivalent for the purpose by the Syndicate on the recommendation of the Faculty of Medical Sciences, shall be eligible to join the Third B.D.S. class.

- (b) A candidate who has passed the subjects of Pathology and Material Medical at the :-
 - (i) M.B.B.S. examination of an Indian University;
 - or
 - (ii) any other medical qualification considered equivalent for this purpose by the Syndicate on the recommendation of the Faculty of Medical Sciences, shall be exempted from the subjects of General Pathology and Bacteriology only of the second B.D.S. examination.

2.4. (a) A person who has passed the third B.D.S. examination of the Panjab University or an examination of any other recognised University in India considered equivalent for the purpose by the Syndicate on the recommendation of Faculty of Medical Sciences, shall be eligible to join the Final B.D.S. class.

- (b) A candidate who has :-
 - (i) obtained the M.B.B.S. degree of an Indian University;

or

- (ii) obtained any other Medical qualification

considered equivalent for this purpose by the Syndicate on the recommendation of the Faculty of Medical Sciences, shall be exempted from the subjects of Medicine and surgery only of the Third B.D.S. examination. He shall, however, be examined in Dental Material Medical which shall be combined with Dental Surgery and Pathology with Dental Bacteriology all of which shall be combined and considered as one subject. In addition he shall be examined in the subjects of Human Dental Anatomy, Physiology and Dental Histology, details of which are given in Regulation 4.4 against the Second B.D.S. examination.

3.1. A student who possesses the qualifications laid down in Regulation 2.1/2.2/2.3/2.4 and satisfies the following requirements duly certified by the Principal of a college affiliated to the University in the Faculty of Medical Sciences for the degree of Bachelor of Dental Surgery, shall be eligible to appear in the First/Second/Third/Final B.D.S. examination :-

- (a) of having been on the rolls of the college throughout the academic year preceding the examination;
- (b) of having good character;
- (c) of having attended not less than 75 per cent of the full course of-
 - (i) lectures; and
 - (ii) demonstrations and practicals delivered separately in each subject;
- (d) in the case of First examination, of having completed, dissection in detail of head and neck.

3.2. A deficiency in the required number of lectures, demonstrations and practical, may be condoned by the Principal up to the extent of 5 per cent.

3.3. A candidate who has completed the prescribed course as laid down in these regulations and is unable to appear in the examination, or having appeared has failed, may be admitted to subsequent examination, as under, on payment of the prescribed fee on each occasion and on producing a certificate signed by the Principal of the Dental College in which he completed the course, that he has, subsequent to his last failure, attended a course of training in the subjects of the examination as the Principal may determine :

First examination : Next three consecutive examinations; a candidate who is unable to qualify in all the three subjects in four consecutive chances, including the first chance to which he was entitled, shall not be allowed to continue his studies for the B.D.S. Course.

Second, Third &
Final examinations : One or more subsequent examinations.

4.1. The examination shall be held according to the syllabus prescribed by the Senate.

4.2. The medium of examination shall be English.

4.3. (a) Ten per cent of the total marks of a subject shall be allotted for class work which includes day-to-day work and periodic class examination, both written and oral.

(b) The class marks shall be included (i) in the clinical examination marks in the Final examination, (ii) in the Oral and Practical examinations marks in the First, Second and Third examinations and in the written examination marks in Dental Metallurgy etc. of the First B.D.S. examination.

4.4. Every candidate shall offer the following subjects :-

FIRST EXAMINATION

	Written marks	Oral/Practical and class marks respectively	Total marks
(i) General Anatomy	100	80 + 20 = 100	200
(ii) General Physiology with Histology and Biochemistry	100	80 + 20 = 100	200
(iii) Dental Materials	100	80 + 20 = 100	200

Each written paper shall be of three hours duration.

SECOND EXAMINATION

	Written marks	Oral/Practical and class marks respectively	Total marks
(i) General and Dental Material Medical	100	80 + 20 = 100	200
(ii) General Pathology and Bacteriology	100	80 + 20 = 100	200
(iii) Dental Anatomy, Histology and Physiology	100	80 + 20 = 100	200

Each written paper shall be of three hours duration.

THIRD EXAMINATION

	Written marks	Oral/Practical and class marks respectively	Total marks
(i) Medicine	100	80 + 20 = 100	200
(ii) Surgery	100	80 + 20 = 100	200
(iii) Dental & Oral Pathology and Microbiology	100	80 + 20 = 100	200

Each written paper shall be of three hours duration.

FINAL EXAMINATION

	Written marks	Oral/Practical and class marks respectively	Total marks
(i) Pedodontia, Preventive Dentistry and Orthodontia	100	80 + 20 = 100	200

(ii) Operative Dentistry and Dental Radiology	100	80 + 20 = 100	200
(iii) Periodontia Oral Medicine and Diagnosis in Dentistry etc.	100	80 + 20 = 100	200
(iv) Dental and Oral Surgery and Anaesthesia	100	80 + 20 = 100	200
(v) Dental Prosthesis and Crown Bridgework.	100	80 + 20 = 100	200

Each written paper shall be of three hours duration.

5. The amount of examination fee to be paid by a candidate for first, second, third and final examination shall be as fixed by the Syndicate from time to time.

6.1. The minimum number of marks required to pass each examination shall be-

- (a) 50 per cent in the written part of each subject;
- (b) 50 per cent in the oral and practical/clinical parts of each subject.

6.2. A candidate who obtains pass marks in one or more subjects shall be exempted from re-appearing in such subjects, provided that :-

- (a) in the case of First B.D.S. examination, he must qualify in all the three subjects within the period prescribed in Regulation 3.3;
- (b) in the case of Second, Third and Final examination, he clears the whole examination within a period of two years from the time the candidate first appeared in the examination, failing which he shall have to appear in the whole examination.

7.1. The Controller of Examinations shall publish the result as soon as possible after the examination.

7.2. Successful candidates who obtain 75 per cent marks in any subject shall be declared to have passed "with distinction" in that subject provided he passes in all the subjects of the examination at one and the same time.

7.3. A successful candidate of the First/Second/Third examination shall be granted a certificate.

A successful candidate of the Final examination shall be granted the degree.

BACHELOR OF DENTAL SURGERY (BDS)

(Bachelor of Dental Surgery (BDS) Course to take effect from the Examination of 1993)

1.1. The duration of the course of instructions for the degree of Bachelor of Dental Surgery (BDS) shall be five years.

1.2. There shall be four examinations viz., first, second, third and final. The first examination shall be held at the end of first year, the second examination at the end of second year, the third examination at the end of third year and the final examination at the end of fourth year.

After the final examination, there will be one year compulsory paid rotatory internship.

1.3. These examinations shall be held twice a year on suitable dates in the months of April/May and September/October or at such time as may be decided by the appropriate University authority from time to time.

1.4. The dates for receipt of examination admission forms with prescribed fees and with/without late fees as the case may be or the amount as determined by the competent authority from time to time will be notified by the University.

2.1. A person who has attained the age of 17 years, or more on 31st December of the year of admission and possesses one of the following qualifications shall be eligible to join the first year class of the Course after qualifying the entrance test :-

- (i) 10+2 examination of the Punjab School Education Board/CBSE, New Delhi with at least 50 per cent marks in the aggregate of Physics, Chemistry, Botany and Zoology, provided he has qualified in English of 10+2 standard.
- (ii) Any examination of another University/Board, recognised by the syndicate as equivalent to the 10+2 examination of Punjab School Education Board/CBSE, New Delhi with at least 50 per cent marks in the aggregate of Physics, Chemistry Botany and Zoology, provided he/she has qualified in English of 10+2 standard.

2.2. (a) A person who has passed the first B.D.S. Examination of the Panjab University or an examination of any other recognised University in India considered equivalent for the purpose by the Syndicate on the recommendations of the faculty of Medical Sciences, shall be eligible to join the Second year B.D.S. Class. However, a candidate who fails in the first B.D.S. examination in the April examination for the first time may be allowed to attend the next higher class until October next, but if he fails even in the September examination, he shall revert to the first B.D.S. class.

(b) A candidate who has obtained :-

- (i) The MBBS degree of an Indian University.
 - or
 - (ii) any other equivalent medical qualification.
 - (iii) or has passed the subjects of Anatomy and Physiology of the first Professional MBBS examination of the Panjab University.
- Considered equivalent for this purpose by the Syndicate on the recommendations of the Faculty of Medical Sciences.

shall be exempted from the first B.D.S. examination except in the subject of Dental Metallurgy.

2.3. A person who has passed the second B.D.S. examination of the Panjab University shall be eligible to join the third year B.D.S. Class.

A candidate who has passed the subjects of Pathology and Material Medica at the :-

(i) MBBS examination of an Indian University;

OR

(ii) any other medical qualification considered equivalent for this purpose by the Syndicate on the recommendation of the Faculty of Medical Sciences, shall be exempted from the subjects of General Pathology and Bacteriology only of the second B.D.S. examination.

2.4. (a) A person who has passed the third B.D.S. examination of the Panjab University shall be eligible to join the final B.D.S. class.

(b) A candidate who has :-

(i) obtained the M.B.B.S. degree of an Indian University;

OR

(ii) obtained any other Medical qualification considered equivalent for this purpose by the Syndicate on the recommendation of the Faculty of Medical Sciences shall be exempted from the subjects of Medicine and Surgery only of the third BDS examination. He shall, however, be examined in Dental Material Medica which shall be considered with Dental Surgery and Pathology with Dental Bacteriology all of which shall be combined and considered as one subject. In addition, he shall be examined in the subjects of Human Dental Anatomy, Physiology and Dental Histology, details of which are given in Regulation 4.4 against the second B.D.S. examination.

2.5. A person who has passed the final B.D.S. examination of Panjab University shall be required to undergo one year compulsory paid rotatory internship.

3.1. A student who possesses the qualification laid down in Regulation 2.1/2.2/ 2.3/2.4 and satisfies the following requirements duly certified by the Principal of a Medical/Dental college affiliated to the University in the faculty of Medical Sciences for the degree of Bachelor of Dental Surgery, shall be eligible to appear in the first/second/ third/final B.D.S. examination :-

- (a) of having been on the rolls of the college throughout the academic year preceding the examination;
- (b) of having good character;
- (c) of having attended not less than 75 per cent of the full course of
 - (i) Lectures delivered; and
 - (ii) Demonstration and Practicals held
 } Separately in each subject
- (d) in the case of first examination, of having completed dissection in detail, of head and neck.

3.2. A deficiency in the required number of lectures, demonstrations and practicals

may be condoned by the Principal up to the extent of 5 per cent of the lectures actually delivered, demonstrations and Practicals actually conducted.

3.3. A candidate who has completed the prescribed course as laid down in these regulations and is unable to appear in the examination, or having appeared has failed, may be admitted to subsequent examination, as under, on payment of the prescribed fee on each occasion and on producing a certificate signed by the Principal of the Medical/Dental College in which he completed the course, that he has, subsequent to his last failure, attended a course of training in the subjects of the examination as the Principal may determine :-

For First examination : The candidate may be allowed to take the next three consecutive examinations, a candidate who is unable to qualify in all the three subjects in four consecutive chances, including the first chance to which he was originally entitled, shall not be allowed to continue his studies for the B.D.S. course.

Second, Third and Final examinations : One or more subsequent examinations.

4.1. The examination shall be held according to the syllabus prescribed by the appropriate University authority from time to time.

4.2. The medium of examination shall be English.

4.3. Ten per cent of the total marks in each subject of every examination shall be allotted for class work which includes day to day work and Periodic class examinations, both written and oral, 5 per cent shall form a part of the theory/written work and 5 per cent for clinical (in the case of clinical subject) or oral and practical in the case of more subjects in the First, Second, Third and Final year B.D.S. examinations.

4.4. Every candidate shall offer the subjects as determined by the Faculty of Medical Sciences from time to time.

5. The amount of examination fee to be paid by a candidate for :-

First, Second, Third and Final examinations	}	shall be as prescribed by the competent University authority from time to time.
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6.1. The minimum marks required to pass each examination shall be :-

- (a) 50 per cent in the written part of each subject;
- (b) 50 per cent in the oral and practical/clinical parts of each subject.

6.2. A candidate who obtains pass marks in one or more subjects shall be exempted from re-appearing in such subjects, provided that :-

- (a) in the case of first B.D.S. examination, he must qualify in all the three subjects within the period prescribed in Regulation 3.3;
- (b) in the case of Second, Third and Final examinations he clears the whole examination within a period of two years from the time the candidate first appeared in the examination, failing which he shall have to appear in the whole examination once again.

7.1. The Controller of Examinations shall publish the result as early as possible after the termination of the examination.

7.2. Successful candidates who obtain 80 per cent marks in any subject shall be declared to have passed “with distinction” in that subject provided they pass, in all the subjects of the said examination, at one and the same time.

7.3. A successful candidate of the First/Second/Third examination shall be granted a Detailed Marks Certificate for each examination.

A successful candidate of the Final examination shall be granted degree only after completion of one year of compulsory paid rotatory internship.

MASTER OF DENTAL SURGERY (M.D.S.)

1.1. The duration of the course of instruction for the degree of Master of Dental Surgery (M.D.S.) shall be two years in an institution affiliated to the University in the Faculty of Medical Sciences for the M.D.S. Course.

1.2. The Master of Dental Surgery (M.D.S.) examination shall consist of Parts I and II and shall be held in the following specialities of which a student shall offer one :-

1. Pedodontics and Preventive Dentistry;
2. Orthodontics;
3. Prosthodontics and Crown and Bridge-work;
4. Periodontics;
5. Oral and Maxillofacial surgery;
6. Conservative dentistry;
7. Community dentistry;
8. Oral Pathology;
9. Oral Medicine and Radiology

1.3. The Part I examination will be held after 18 months and Part II examination after 3 years in the months of May/June and November/December or such dates as may be fixed by the Syndicate from time to time.

1.4. The date of commencement of the examination and the last dates for receipt of examination admission forms and fee shall be notified by the Controller of examinations.

2.1. A person who fulfils the following requirements shall be eligible to join the course :-

- (i) (a) possesses the degree of Bachelor of Dental Surgery (B.D.S.) of Panjab University; but after the year 1989 BDS degree will include one year internship.

or

- (b) possesses the degree of another University recognised by the Syndicate as equivalent to (a).
- (ii) the first year of the three years course would be considered equivalent to one year House job. Three years course would be applicable to all students whether they have earlier done House job/its equivalent or not;

or

has worked in State Dental Services, Armed Forces Dental Services or other equivalent services of Public undertakings etc. for a period of three years after registration provided that one year out of these three years shall be in a Dental College/Institute failing which aforesaid period of three years would be increased to 5 years.

- (iii) is registered with the State Dental Council.

2.2. A student who has passed M.D.S. Part I examination of the Panjab University shall be eligible to join Part II class of the M.D.S. course.

3.1. A student who possesses the qualifications prescribed in Regulation 2.1/2.2 and satisfies the following requirements duly certified by the Principal of a college affiliated to the University for the M.D.S. course, shall be eligible to appear in Part I/II examination :-

- (a) of having been on the rolls of the college throughout the academic year preceding the examination;
- (b) of having good character; and
- (c) of having completed the prescribed training to the satisfaction of the Heads of the Departments concerned; and
- (d) in the case of Part II of having qualified in the thesis.

3.2. A candidate who has completed the prescribed course and is unable to appear in the examination or having appeared has failed may be allowed to re-appear in Part I examination, on production of a certificate, signed by the Principal of the college, of having undergone further training to the satisfaction of the Principal. A candidate who has failed in Part II examination shall not be required to undergo any further training for appearing in a subsequent Part II examination nor shall be required to submit a fresh thesis.

Provided that a candidate who is unable to qualify in Part I examination in four consecutive chances including the first examination in which he was entitled to appear, shall not be allowed to continue his studies for the M.D.S. Course. :-

4. The amount of admission fee to be paid by a candidate for Parts I & II shall be as fixed by the Syndicate from time to time.

5.1. The Medium of examination shall be English.

5.2. (a) The examination shall be held in accordance with the syllabus prescribed by the Senate

- (b) Part I examination in each specialty shall consist of :-
 - (i) Two written papers of 3 hours each and
 - (ii) a viva voce/practical examination.
- (c) Part II examination in each specialty shall consist of :-
 - (i) a thesis;
 - (ii) two written papers of 3 hours each; and
 - (iii) a viva voce/practical examination.

5.3. (a) (i) Every candidate for the degree of Master of Dental Surgery shall submit to the Controller of Examinations, his application for approval of the subject of thesis by the Board of Studies in Dentistry through the Supervisor and Principal/Head of the Dental Institution/Department in the teaching institution within six months of the date of his admission.

(ii) The thesis shall be on a subject connected with the Science and Practice of Dentistry.

- (iii) The Supervisor and the Head of the Department shall certify that they will provide necessary facilities for proper investigation and will supervise the candidate.
 - (iv) Every candidate shall forward his thesis in triplicate to the Controller of Examinations through the Principal/Head of Dental Institution/Department along with requisite fee (as determined by the Syndicate from time to time) supported by a certificate from the Supervisor/Head of the Department under whose supervision the research has been carried out certifying that the techniques and statistics mentioned in the thesis were undertaken by the candidate himself.
 - (v) The thesis shall be typewritten and submitted not later than 2 months before the commencement of Part II examination. It shall conclude with a summary embodying conclusions arrived at by the candidate.
- (b) In case a candidate desires to change the subject of his thesis at a later stage, he shall apply to the Board of Studies in Dentistry, for permission to do so.
- (c) The thesis shall embody the result of the candidate's own experience of research, and shall be accompanied by precise reference to the publications quoted. In his thesis, the candidate shall indicate in what respects his contribution appears to him to advance the knowledge of practice of dentistry.

6.1. Part I examination shall be conducted by a Board of examiners consisting of two internal and two external examiners nominated by the Syndicate on the recommendation of the Board of Studies in Dentistry.

6.2. The thesis shall be examined separately by two examiners-one internal and one external- nominated by the Syndicate on the recommendation of the Board of Studies in Dentistry, who shall report as to whether the thesis shall be accepted or rejected. When the examiners disagree, the Syndicate shall appoint a third examiner on recommendation of the Board of Studies in Dentistry. If accepted, the thesis shall be classified as :-

- (a) accepted;
- (b) commended; or
- (c) highly commended.

If thesis is approved, the candidate shall be permitted to appear in Part II examination.

A thesis which has been accepted shall become the property of the Panjab University, and shall be placed in the library of the Dental institution where the candidate was enrolled for training in M.D.S. course.

6.3. Part II examination shall be conducted by a Board of examiners shall be conducted by a Board of examiners, consisting of two internal and two external examiners, nominated by the Syndicate on the recommendation of the Board of Studies in Dentistry.

7.1. As soon as is possible after the Part I examination, the Board of examiners shall report to the Controller of Examinations, the results of the examination for publication, and shall classify the successful candidates into two lists:

- (a) Pass.
- (b) Pass with distinction.

Each successful candidate shall be granted a certificate of having passed Part I examination.

7.2. As soon as is possible after the Part II examination the Board of examiners shall report to the Controller of Examinations, the results of the examination for publication and classify the successful candidates into two lists :

- (a) Pass.
- (b) Pass with distinction.

7.3. Each successful candidate shall be granted a certificate of having passed the Part II examination and shall be entitled to be admitted to the degree of Master of Dental Surgery (M.D.S.).

MASTER OF CHIRURGERY (M.Ch.)

1. The examination for the degree of Master of Chirurgery shall be held twice a year in the months of June/July and December/January or on such other dates as may be decided by the Syndicate.

2. Every candidate for admission to the examination shall be required to produce their following certificates :-

- (i) of having passed at least two academic years previously, the Master of Surgery or M.D. (Obst. Gynae.) examination from the Panjab University or from any other University recognised for this purpose;

or

F.R.C.S. examination from the Royal College of Surgeons of London or the Royal College of Surgeons of Edinburgh;

or

any other examination recognised by the Syndicate on the recommendation of the Faculty of Medical Sciences;

- (ii) of having subsequent to obtaining one of the degrees mentioned in (i) above, received training in an institution approved by the Faculty of Medical Sciences for two academic years in the special field in which the candidate wishes to qualify.

3. Every candidate shall forward his application to the Controller of Examinations at least 12 weeks before the date fixed for the commencement of the examination, accompanied with examination fee as prescribed by the Syndicate from time to time. All applications received shall be considered by the Faculty of Medical Sciences and admission of each candidate will be decided by the Faculty. A candidate who is not accepted by the Faculty of Medical Sciences shall have no claim of any kind, but his admission fee will be refunded.

4. Every candidate shall be required to offer one of the following subjects for the degree of Master of Chirurgery :-

1. Plastic Surgery.
2. Neuro Surgery.
3. Cardio-Thoracic Surgery.
4. Genito Urinary Surgery.
5. Paediatric Surgery.
6. Oneology.
7. Or any other speciality approved by the Medical Faculty.

5. The examination in each subject shall consist of :-

- (a) Theory papers .. Two
- (b) Oral, Clinical and Practical examination.

6. The examination shall be conducted by a Board of 4 examiners appointed by the syndicate on the recommendation of the Faculty of Medical Sciences.

The Board of examiners shall, in consultation, determine all details of the examination.

7. There shall be no thesis.

Provided that the candidates who seek admission after having passed F.R.C.S. examination from the Royal College of Surgeons of London or the Royal College of Surgeons of Edinburgh shall be required to submit a thesis/dissertation.

8.1. The thesis/dissertation shall conform to the requirements laid down in this Regulation and may be submitted at any time within seven years but not earlier than six months from the date on which application was entertained.

The thesis/dissertation shall embody the result of the candidate's own research and/or experience and shall contain precise reference to the publications quoted, and must attain a good standard and shall be satisfactory in literary presentation and in other respects and should end with a summary embodying conclusions arrived at by the candidate. The thesis shall be typewritten on one side of the paper (size 11"x8½") with margins of 1½ on each side, bound in cloth, indicating on the outside cover its title and the name of the candidate.

8.2. Every candidate shall submit :-

- (a) 3 copies of his thesis/dissertation;
- (b) 3 copies of the original plan already submitted by him at the time of registration to the Registrar,

through the Head of his College/Institute, accompanied by :-

- (i) a certificate from the supervisor testifying that the technique and statistics mentioned in the thesis/dissertation were undertaken by the candidate himself.
- (ii) A fee as prescribed by the Syndicate from time to time.

8.3. The thesis/dissertation shall be examined separately by two examiners appointed by the Syndicate, on the recommendation of the Faculty. They shall report whether the thesis/dissertation is accepted or rejected or the candidate be allowed to re-submit the thesis after revision. If the examiners disagree, Syndicate shall appoint a 'third' examiner who shall, be an expert in the same speciality as the examiner-rejecting the thesis/dissertation. The 'third' examiner shall be appointed on the recommendation of the Dean of the Faculty of Medical Sciences. If the thesis/dissertation is accepted, it shall be classified as accepted, commended, or highly commended, and the result will be communicated to the candidate. Every approved thesis/dissertation shall become the property of the Panjab University and may be placed in the Library of the College/Institute concerned. If the thesis/dissertation is rejected the candidate may be required either to re-write the thesis or to take up another subject. The examiner rejecting the thesis/dissertation shall point out in writing the defects and make suggestions for improvements and modifications, if a revision will render it acceptable. The revised thesis/dissertation shall be submitted to the University not later than one year from the date of intimation of the result accompanied by half the amount of the prescribed fee.

8.4. A candidate whose thesis/dissertation has been accepted but who fails in the examination may be allowed to reappear in the subsequent examination, but his thesis/dissertation shall not be evaluated again. He shall pay the admission fee as prescribed in Regulation 3.

9. As soon as is possible, after the examination, the Board shall report to the Controller of Examinations for publication of the result of the examination. Successful candidates shall be classified into two lists as under :-

- | | | | |
|-----|------|----|-------------------|
| (a) | Pass | .. | Ordinary |
| (b) | Pass | .. | With distinction. |

Each successful candidate shall be granted a diploma.

PH.D. DEGREE IN THE FACULTY OF MEDICAL SCIENCES

1.1. A candidate for the degree of Doctor of Philosophy in the Faculty of Medical Sciences shall have obtained from this University, the degree of :-

- (i) Bachelor of Medicine and Bachelor of Surgery for Ph.D. in Medical subjects;
or
- (ii) Master of Pharmacy for Ph.D in Pharmacy subjects;
- (iii) M.Sc. in subjects such as Microbiology, Pathology, Pharmacology, Bio-Chemistry, Bio-Physics, Physiology and Anatomy or any subject approved for the purpose by the University;
- (iv) M.D. or M.S. or M.R.C.P. or F.R.C.S., as the case may be for Ph.D. in Clinical Sciences.

1.2. The faculty of Medical Sciences may, however, allow a person who has obtained the degree required in Regulation 1.1 from another University to supplicate for Ph.D. degree.

2. Every candidate shall pursue research :-

- 1. (a) for a Medical subject, in a Medical College recognised for Ph.D. degree;
(b) for a Pharmacy subject, in the University Department of Pharmacy;
or
- 2. at a centre approved for the purpose by the Faculty of Medical Sciences.

3.1. A person who wishes to be accepted as a candidate for Ph.D. research shall, before starting research work apply through the Head of the Medical Institute – College/ University Pharmaceutical Department, on the prescribed form of enrolment, with a fee as prescribed by the Syndicate from time to time, which shall not be refundable except when he is found ineligible for enrolment in which case the fee may be refunded after a deduction of 25 per cent.

3.2. Application on the prescribed form for enrolment shall be considered by the University thrice in a year as under :-

- (a) from July 15 to July 31;
- (b) from November 15 to November 30; and
- (c) from March 15 to March 31.

3.3. A person who holds a scholarship awarded by the Panjab University, the University Grants Commission or similar other body, and all teachers shall, on being enrolled, be exempted from the fee prescribed in this regulation. Other persons, on enrolment, shall pay a fee of Rs. 25 per mensem to the University/to the Institute/Medical College, provided that exemption may be allowed with effect from 1-7-1971, in accordance with the rules as may be framed by the Syndicate.

3.4. Within six months from the date of enrolment, the candidate shall furnish through the Head of Medical College/University Pharmacy Department :-

- (a) a tentative title of the thesis; and
- (b) a tentative design of research project.

The candidate may seek approval of the title of the thesis later but he shall submit the thesis not earlier than one year from the date of approval of the title. The Faculty, may, however, relax this limit wherever it is considered necessary by the Head of the College/University Pharmacy Department.

4.1. Before forwarding the application required in Regulation 3.4 the Principal of the Medical College/University Pharmacy Department will satisfy himself, after proper scrutiny and test, including, viva-voce, of adequate general knowledge of the candidate in his special field of study. He shall also satisfy himself that the subject offered is one which can be pursued with profit and that the candidate possesses the requisite qualifications, equipment and capacity for research.

4.2. While forwarding the application, the Head of the College/Department shall also recommend a suitable supervisor, to guide the applicant in his research work. He may, however, if he considers necessary, recommend joint supervisors.

5. All applications for registration as well as approval of the title, etc. (Regulation 3.4) after scrutiny by the Registrar's office, shall be forwarded for consideration of the Board of Post-graduate Medical and Pharmaceutical Research.

6. The Board of Post-graduate Medical and Pharmaceutical Research shall consider each application and recommend whether, in their opinion : -

- (a) the subject proposed for research; and
- (b) the supervisor recommended;

are suitable and, if so, they may recommend approval of the same. If, however, the Board considers that the subjects and/or supervisor are not suitable, they may either reject the application or may suggest suitable changes for reasons to be recorded.

7.1. The title of thesis and the supervisor recommended by the Board of Post-graduate Medical and Pharmaceutical Research shall be considered by the Faculty of Medical Sciences which shall have power to co-opt any other expert for a particular meeting.

The decision of the Faculty shall be final.

7.2. The Faculty of Medical Sciences will decide whether or not the applicant be registered.

8.1. After the date of enrolment, a candidate shall pursue his research work for the Ph.D. degree. The period of training shall be 2 years for those who already possess M.D./M.R.C.P./M.S./F.R.C.S. and three years for those with M.Sc.(Med.). This would apply to all the subjects provided that in exceptionally meritorious cases, a candidate may be allowed to submit his Ph.D. thesis direct after M.B.B.S. in basic medical sciences in which case the duration of the course would be 4 years after one year as house-surgeon or the equivalent thereof recognised by the Medical Council of India.

8.2. A candidate may apply through the Head of the Department for permission to modify the title of his thesis. The application will be considered by the Board of Post-graduate Studies in Medical/Pharmaceutical Sciences and then by the Faculty.

8.3. After the expiry of one year's research work, a candidate may be allowed by the Head of the Medical College/University Pharmacy Department to continue his research work at some other approved centre if :-

- (a) facilities for further work do not exist at the Medical College/University Pharmacy Department; or
- (b) the Head of the College/Department is satisfied that it would be in the interest of the candidate to do further research work at such a centre.

Provided that the supervisor may, on scrutiny of the six-monthly reports received from the candidate, send for the candidate, if necessary, to assess the progress made by him in his research work.

9. The Head of the College/Department in association with the Supervisor concerned, shall test every candidate on the expiry of one year from the date of enrolment, in order to determine whether the candidate should be allowed to continue his research work. If a candidate is found unfit, his enrolment shall be cancelled.

10.1. Every candidate shall report in writing, at the end of every six months, to the supervisor the work done by him during the six months. The supervisor will take such action on this report as he considers suitable depending on the nature of the report and other circumstances of the case.

10.2. The Head of the College/University Pharmacy Department will ensure that every supervisor submits report on candidate's research work twice a years viz :-

- (a) Between October 16 and 31,
- (b) Between April 16 and 30.

Reports of supervisors in all cases shall be submitted through the Head of the College/Department to the Faculty for information and any action that the Faculty may consider necessary.

10.3. In the event of a difference arising between a candidate and Supervisor, the matter shall in the first instance be referred to the Dean of the Faculty. If the Supervisor happens to be the Dean, the matter shall be referred to the Board of Post-graduate Medical and Pharmaceutical Research, directly.

When the matter is referred to the Board, it will take a decision itself, after obtaining, if necessary, the advice of an expert. The decision of the Board shall be final.

10.4. If a Supervisor gives unsatisfactory report on the work of a candidate, the position will be considered by the Board in order to decide whether the candidate should be allowed to continue his research for the Ph.D. degree.

11.1. A candidate who is unable to complete his research work and thesis within the time allowed by these Regulations may apply, through his Supervisor and Head of the department concerned, for grant of extension.

Extension may be granted by the Faculty upto a maximum of two years.

Provided that :-

- (1) extension shall not be granted for more than a year at a time;
- (2) every application for the grant of extension shall be accompanied by a fee as prescribed by the Syndicate from time to time.

If the thesis is received after the prescribed period, the Dean of the Faculty may condone delay, upto three months. The Vice-Chancellor may, on the individual merits of each case and on the recommendations of the Faculty, condone delay to the extent he may deem necessary.

11.2. If a candidate fails to submit his thesis within the period allowed under Regulation 11.1, his enrolment shall be cancelled, but he may be allowed to register himself again with some other subject or in exceptional circumstances such as prolonged illness extending over several years or exigencies of military service, on the same subject.

12. If the Supervisor of a candidate who has been guiding research work of Ph.D. degree of another University, is employed on the staff of the Medical College/University Department of Pharmaceutical Sciences, the candidate doing research work under his supervision may be allowed to enroll himself for the Ph.D. degree of this University under the same Supervisor, subject to fulfilment of these regulations. Such a candidate shall not submit his thesis until after one year of his enrolment in this University.

13. On completion of the research work and in accordance with the period allowed in these Regulations, the candidate shall submit four printed or typewritten copies of his thesis and shall comply with the following conditions :-

- (i) The thesis shall be accompanied by :-
 - (a) a fee as prescribed by the Syndicate from time to time;
 - (b) a certificate from his Supervisor (as may be prescribed by the Syndicate indicating the period for which the candidate has done research work and that the thesis is worthy of consideration for the award of Ph.D. degree;
- (ii) The thesis must be a piece of original research work characterised either by the discovery of new facts or for a fresh interpretation of the known facts or theories; in either case it shall give evidence of the candidate's capacity for original research critical examination and judgment;
- (iii) The thesis shall be satisfactory in its literary presentation;
- (iv) The thesis shall indicate how it embodies the results of the candidate's own research or observations and the respects in which the candidate's investigations appear to him to have advanced study of the subject.

Provided that :-

- (a) A candidate may incorporate in his thesis contents of any work which he may have published on the subject, but he shall not submit, as his thesis, any work for which a degree has been conferred by this or any other University;

- (b) No conjoint Research with the Supervisor shall be permitted in regard to the subject matter of the thesis. The thesis must consist of the candidate's own work which must be his personal achievement provided further that a candidate may submit as subsidiary matter in Support of his thesis any printed contribution for the advancement of his subject which may be published independently or conjointly. Where such subsidiary matter is submitted the candidate shall indicate specifically his personal contribution to such conjoint work duly attested by the supervisor;
- (c) The candidate shall declare in writing, duly countersigned by his Supervisor and Head of the Medical College/University Pharmacy Department that the thesis is not substantially the same as the one he may have already submitted to another University;
- (d) The greater portion of the work included in the thesis must have been done subsequent to his obtaining the basic qualification prescribed in Regulation.

14. Every candidate shall give an undertaking that he will not publish his thesis without the previous permission of the Syndicate. If this permission is granted, the candidate shall supply to the Controller of Examinations three copies of the published thesis, one copy be placed in the Medical College/University Pharmacy Department and two copies in the University Library. The candidate will also furnish the University with copies of reviews of his publication which, along with the book, shall be brought to the notice of the Syndicate. He may publish the preliminary work with the permission of the Head of the Institution.

15.1. The thesis shall be referred to two examiners appointed by the Syndicate on the recommendation of the Faculty of Medical Sciences and the Vice-Chancellor. The examiners may recommend :

that the thesis be accepted for the award of the Ph.D. degree;

or

that the thesis be rejected;

or

that the thesis be allowed to be resubmitted with improvement and for this purpose may make such suggestions as they may deem fit, Provided that the candidate shall ordinarily resubmit the revised thesis within one year of the date of supply of comments of the Examiner to him by the University. Special extension may be given by the Dean of the Faculty up to a maximum of one year.

15.2. A thesis shall be resubmitted, if so recommended by the examiners only once, and it shall be examined by the examiners who assessed the original thesis unless both or any of them are unable or unwilling to do so.

15.3. A candidate who is required to resubmit his thesis must do so accompanied by half the amount of fee prescribed in Regulation 13.

15.4. In case there is a difference of opinion between the two examiners in regard to the acceptance of thesis, the Vice-Chancellor may refer the thesis to another examiner who shall ordinarily be out of the approved panel.

15.5. The examiners shall indicate in their report whether :-

The thesis is fit for publication by the candidate in its original or modified form. In the later case, they may make definite suggestions for improvement.

or

The thesis is of such an outstanding merit that the University should under take its publication at its own cost.

15.6. Except in the case of a thesis which is rejected, viva-voce shall be held in accordance with the rules prescribed in this behalf by the Syndicate, before a final decision is given on the thesis. The examiners may send, if they so desire, along with their reports, questions for use by the Board conducting the oral examination. Such a Board shall consist of three examiners appointed by the Vice-Chancellor of which the Head of the Medical College/ University Department and the Supervisor of the thesis shall be members. If two out of three members of the Board are present, the viva voce will be conducted provided that one of them is the external examiner.

15.7. A candidate whose thesis is rejected shall not be registered again for the Ph.D. degree with the same subject.

16. The reports of both the examiners on the thesis as well as of the other examiners for viva-voce shall be considered by the Syndicate. The Syndicate may decide :-

(i) whether the degree of Doctor of Philosophy be awarded;

or

(ii) whether the candidate be required to revise the thesis and resubmit it for re-examination;

or

(iii) whether the thesis be rejected.

17. The Controller of Examinations shall notify the result in accordance with the decision of the Syndicate.

18. A person already registered for the Ph.D. degree, before these regulations come into force, shall, if he so desires, continue to be governed by the old regulations. The thesis will be entertained under old regulations only if this option has been exercised earlier.

DOCTOR OF SCIENCE (D.Sc.) IN THE FACULTY OF MEDICAL SCIENCES

1. Every candidate for the Degree of Doctor of Science shall have obtained not less than 10 years previously the M.B.B.S or M.Pharm. degree, or not less than five years previously the M.D. or M.S. degree or F.R.C.S. or M.R.C.P. :-

(i) of the Panjab University, Lahore, before 1948;

or

(ii) of the Panjab University;

or

(iii) subject to the sanction of the Syndicate of any other recognised University provided he is a whole-time permanent teacher of any college affiliated to Panjab University.

Each candidate for the D.Sc. degree of this University shall submit a declaration that the work he is submitting has not already been submitted and shall not in future be submitted for obtaining a similar degree of any other University.

2. The Syndicate shall have power to exclude any candidate from the examination, if it is satisfied that such a candidate is not a fit person to be admitted thereto.

3. Every candidate for this degree must have already made substantial published contributions to Medical Sciences.

Note :-The work submitted under Regulation 3 can also be considered under Regulation 4 if desired by the candidate.

4. Every candidate shall submit his work, which must be satisfactory in literary presentation, containing an original and substantial contribution to some branch of learning accompanied by a fee as prescribed by the Syndicate from time to time.

5. The work submitted shall be examined by a Board of Examiners appointed by the Syndicate on the recommendation of the Vice-Chancellor.

Note :-Every candidate is required to submit as many copies of his work as the number of examiners and an extra copy for the office.

6. A candidate who gives evidence of research and ability satisfactory to the Board of Examiners and fulfils the prescribed conditions may be recommended by the Board of Examiners to the Syndicate for award of the degree of Doctor of Science in the Faculty of Medical Sciences.

7. If the Board of Examiners considers that the candidate is not worthy of the degree of Doctor of Science but that his work is of a standard equivalent to that required for the degree of Doctor of Philosophy, they may recommend him to the Syndicate for the grant of the degree of Doctor of Philosophy.

DIPLOMAS IN THE FACULTY OF MEDICAL SCIENCES

- Diplomas in –
- (i) Gynaecology and Obstetrics (D.G.O.).
 - (ii) Clinical Pathology (D.C.P.).
 - (iii) Anaesthesiology (D.A.).
 - (iv) Child Health (D.C.H.).
 - (v) Tuberculosis and Chest Diseases (D.T.C.D.).
 - (vi) Dermatology, including Venereal Diseases and Leprosy.
 - *(vii) Immunohaematology and Blood Transfusion.

1.1. The duration of the course of instruction for the following examinations shall be two academic years :-

- (i) Diploma in Gynaecology and Obstetrics (D.G.O.);
- (ii) Diploma in Clinical Pathology (D.C.P.);
- (iii) Diploma in Anaesthesiology (D.A.);
- (iv) Diploma in Child Health (D.C.H.);
- (v) Diploma in Tuberculosis and Chest Diseases (D.T.C.D.);
- (vi) Diploma in Dermatology, including Venereal Diseases and Leprosy; and
- (viii) Immunohaematology and Blood Transfusion.

1.2. These examinations shall be held twice a year, ordinarily in the months of July, and January, on such dates as may be fixed by the Syndicate.

1.3. The dates of commencement of examinations and the last dates for receipt of examination admission forms and fees for the examinations without and with late fees as fixed by the Syndicate from time to time, shall be notified by the Controller of Examinations.

2. A person who possesses one of the following qualifications shall be eligible to join a course for any one of the Diplomas mentioned in Regulation 1.1 :-

- (a) the Final M.B.B.S. degree of the Panjab University.
- (b) the Final M.B.B.S. degree of any other University recognised by the Medical Council of India.

3.1. A student who possesses the qualification laid down in Regulation 2 and produces the following certificates signed by the Principal of the Medical College or Dean of the Post Graduate Institute of Medical Education and Research, Chandigarh, affiliated to the Panjab University and approved for the Diploma course concerned shall be eligible to appear in the examination for that Diploma course :-

- (a) of good character;

*To take effect from the admissions of 1975.

(b) of having been enrolled in the College/Institute for two academic years.

3.2. A candidate who has completed the prescribed course but does not appear in or fails in the examination may be allowed to appear in the next consecutive examination without attending a fresh course. If he fails in that examination, he shall attend an additional course for a period of six months before being allowed to re-appear in the examination.

4. The fee to be paid by a candidate for each Diploma examination shall be Rs. 100.

5.1. The medium of examination shall be English.

5.2. The examination shall be held in accordance with the Syllabus prescribed by the Senate.

5.3. The examination shall consist of–

(i) Diploma in Gynaecology and Obstetrics			
(a) Written papers :			Marks
(1) Obstetrics and diseases of new born babies	..		100
(2) Gynaecology	..		100
(b) Clinical, oral and practical	..		200
	Total	..	<u>400</u>
(ii) Diploma in Clinical Pathology–			
(a) Written papers :			
(1) Pathology including Haematology and Clinical Pathology	..	One theory paper	100
(2) Microbiology	..	One theory paper	100
(b) Practical and oral examination	..		200
	Total	..	<u>400</u>
(iii) Diploma in Anaesthesiology–			
(a) Written papers :			
(1) Anatomy, Physiology, Pharmacology and Physics as related to Anaesthesia	..		100
(2) Anaesthesia and Analgesia History, theory and practice of Anaesthesia, preoperative care and postoperative complications the clinical sciences in relation to Anaesthesia and the recent advances in Anaesthesia	..		100
(b) Oral and practical examinations	..		200
	Total	..	<u>400</u>

(iv)	Diploma in Child Health–		
	(a) Written papers :		
	(1) Anatomy, Physiology of Childhood Neonatal Paediatrics, growth and development, diet and nutrition, Psychological Paediatrics, Pathology and Bacteriology and Social and Preventive Paediatrics, including legislation and Public administration with regard to the care of children	..	100
	(2) Disease of infancy and childhood	..	100
	(b) Oral, practical and clinical	..	200
		Total	<u>400</u>
(v)	Diploma in Tuberculosis and Chest Diseases (D.T.C.D.)–		
	(a) Written papers :		
	(1) Tuberculosis and Chest Diseases Basic including, epidemiology, Pathology, Bacteriology, B.C.G. tuberculin, and prevention and control.	..	100
	(2) Tuberculosis and Chest Diseases clinical	..	100
	(b) Clinical, practical and oral	..	200
		Total	<u>400</u>
(vi)	Diploma in Dermatology including Venereal Diseases and Leprosy–		
	(a) Written papers :		
	(1) Anatomy, Physiology, Haematology Serology, Pathology, Bacteriology, Virology and Mycology in connection with the diseases of the skin and its appendages (including Leprosy) and Venereal diseases.	..	100
	(2) Diseases of the skin and its appendages (including Leprosy) and Venereal diseases	..	100
	(b) Clinical, practical and oral	..	200
		Total	<u>400</u>

(vii) Diploma in Immunohaematology and Blood Transfusion–

(a) Written papers :

(1) Applied Physiology and Clinical application of Blood Transfusion.	..	100
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(2) Immunology, Immunogenetics and Immunohaematology	..	100
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(b) Practical, Clinical and oral	..	200
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Total	..	<u>400</u>
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6. The minimum number of marks required to pass the examination shall be 50 percent in (a) written and oral examination and (b) Clinical and practical examination, separately.

7.1. A candidate who passes the examination at the first attempt and secures at least 80 per cent of the aggregate marks shall be declared to have passed with “distinction”.

7.2. The Controller of Examinations shall publish the result as soon as possible after the examination.

7.3. Each successful candidate shall be granted a Diploma in the subject concerned.

**DIPLOMAS IN (i) MEDICAL RADIOLOGY (D.M.R.) (ii) LARYNGOLOGY AND
OTOLOGY (D.L.O.), (iii) OPHTHALMIC MEDICINE AND SURGERY (D.O.M.S.)**

1.1. The duration of the course of instruction for the following examinations shall be two academic years :-

- (i) Diploma in Medical Radiology (D.M.R.);
- (ii) Diploma in Laryngology and Otology (D.L.O.); and
- (iii) Diploma in Ophthalmic Medicine and Surgery (D.O.M.S.).

1.2. The examination for each Diploma shall be divided into two parts (Part I and Part II) and the examination for each part shall be held twice a year, on such dates as may be fixed by the Syndicate as under :-

D.M.R.	..	Ordinarily in the months of July and October.
D.L.O. and D.O.M.S.	..	Ordinarily in the months of July and January.

There shall be an interval of three weeks between the end of Part I examination and the commencement of Part II examination to enable a candidate, who fulfils the conditions laid down in 3.1 and 3.2 to sit in both the examinations in the same month.

1.3. The dates of commencement of examination (Regulation 1.2) and the last dates for receipt of examination admission forms and fees for the examinations without and with late fee as fixed by the Syndicate from time to time, shall be notified by the Controller of Examinations.

2. A person who possesses one of the following qualifications shall be eligible to join a course for anyone of these Diplomas :-

- (a) The Final M.B.B.S. degree of the Panjab University;
- (b) The Final M.B.B.S. degree of any other University recognised by the Medical Council of India.

3.1. A student who possesses the qualification laid down in Regulation 2 and produces the following certificates signed by the Principal of the Medical College affiliated to the Panjab University and approved for the Diploma course concerned shall be eligible to appear in Part I examination of that Diploma Course :-

- (a) of good character;
- or
- (b) of having attended the prescribed course of instruction.

Additional requirements for D.M.R.

- (i) of having attended a part-time course of instruction in Physics as applied to Medical Radiology for three months; and
- (ii) of having attended along with (i), the department of Radiology of a teaching hospital attached to a medical college affiliated to this University for the diploma in Medical Radiology course to the satisfaction of the Head of the Department of Radiology.

3.2. A student who has passed Part I examination shall be eligible to appear in Part II examination if he produces the following certificates signed by the Principal of the College :

- (a) of good character; and
- (b) of having attended the prescribed course of instruction.

3.3. A candidate who has completed the prescribed course but does not appear or fails in the examination, may be allowed to appear in the next consecutive examinations without attending a fresh course. If he fails in that examination, he shall attend an additional course for a period of six months before he can be allowed to re-appear in the examination.

4. The fee to be paid by a candidate for each part shall be as fixed by the Syndicate from time to time.

5.1. The medium of examination shall be English.

5.2. The examination shall be held in accordance with the prescribed syllabus.

5.3. The examination shall consist of :-

(i) Diploma in Medical Radiology :-

Part I Physics as applied to Medical Radiology	..		(i)	One theory paper of 100 marks.
			(ii)	A practical and oral examination of 100 marks.
Part II (a) Diagnostic Radiology	..		(i)	One theory paper of 100 marks.
			(ii)	A practical and oral examination of 100 marks.
(b) Radiotherapy	..		(i)	One theory paper of 100 marks.
			(ii)	A practical and oral examination of 100 marks.

Each candidate shall also be required to possess knowledge of Medical Sciences applied to Medical Radiology.

(ii) Diploma in Laryngology and Otology :-

(a) Written papers :-

(1) Anatomy and Embryology of the Ear, Nose and Throat	..	100 marks
(2) Physiology of Ear, Nose and Throat and Elementary acoustics	..	100 marks
(b) Oral and practical	..	200 marks
Total	..	<u>400 marks</u>

PART II-QUALIFYING EXAMINATION

(a)	Written papers :-		
	(1) Medicine of Ear, Nose and Throat including Pathology and Bacteriology	..	100 marks
	(2) Surgery of Ear, Nose and Throat including allied subjects	..	100 marks
(b)	Practical and clinical	..	200 marks
		Total	<u>400 marks</u>
(iii)	Diploma in Ophthalmic Medicine and Surgery :-		
(a)	Written papers :-		
	Ocular Physiology and Anatomy	..	100 marks
(b)	Practical and Oral examination	..	200 marks
		Total	<u>200 marks</u>

D.O.M.S. PART II (QUALIFYING)

(a)	Written papers :-		
	(1) Medical Ophthalmology	..	100 marks
	(2) General Ophthalmology including Surgery	..	100 marks
	(3) Ocular Pathology	..	100 marks
	(4) Optics and refraction	..	100 marks
(b)	Practical :-		
	(1) Clinical	..	200 marks
	(2) Dark Room and Refraction	..	100 marks
	(3) Pathology and Practical	..	50 marks
	(4) Viva and Instruments	..	50 marks
		Total	<u>800 marks</u>

6. The minimum number of marks required to pass the examination shall be 50 percent separately in :-

- (a) each theory paper; and
- (b) each clinical, practical and oral examination.

7.1. A candidate who passes the examination at the first attempt and secures 80 per cent of the aggregate marks shall be declared to have passed with "distinction".

7.2. The Controller of Examinations shall publish the result as soon as possible after the examination.

7.3. Each successful candidate shall be granted a Diploma in the subject concerned.

DIPLOMA IN MEDICAL RADIOLOGY DIAGNOSIS (D.M.R.D.)

(To come into force w.e.f. the admissions of 1974)

1. The examination for Diploma in Medical Radiology Diagnosis shall consist of two parts namely, Part I and Part II.

The examination in both parts will be held twice a year at a place or places as approved by the Syndicate. A candidate who has obtained the degree of M.B.B.S. before December can join the course from January without a house job and similarly a candidate who obtained the degree of M.B.B.S. before July can join the course from July without a house job. The examination will be held twice a year for Part I and Part II, Part I examination will be held (in January and June every year) after completion of one year and Part II examination will be held (in December and May) after completion of two years course. Supplementary examination will be held after 6 months of annual examination.

2. The last date by which admission forms and fee for Part I and Part II examination must reach the Controller of Examinations shall be six weeks before the date fixed for the commencement of the examination concerned. Provided the examination admission forms and fee shall be entertained after that with a late fee as fixed by the Syndicate from time to time, but not later than four weeks before the commencement of examination.

3. The examination fee for each part shall be as fixed by the Syndicate from time to time.

4. The examination in Part I shall be open to a person who :-

- (i) has obtained the degree of this University or equivalent degree of any other University recognised by the Medical Council of India.
- (ii) has been on the rolls of a Medical College affiliated to this University for Diploma in Medical Radiology (Diagnosis) Course for two years.

Provided that whole time extra work for six months by a candidate in the department as a Post-Graduate student/Registrar shall be equivalent to housemanship in Radiology for six months.

- (iii) has his names sent by the Principal of Medical College affiliated to this University for the D.M.R.D. (Diagnostic) course, attended by him and is certified by the Principal in respect of requirement in (i) and (ii) above; and
 - (a) of having attended a part-time course of instruction in Physics as applied to Medical Radiology for three months.
 - (b) of having attended alongwith (a) the department of Radiology of a teaching hospital attached to a medical college, affiliated to this University for D.M.R.D. Course to the satisfaction of Head of the Department of Radiology.
 - (c) of good moral and professional character.
 - (d) The work done by those already employed in State Medical Service or Armed Forces or other equivalent Service for a period of 5 years.

Provided that whole-time extra work for six months by a candidate in the department as a Post-Graduate student/Registrar shall be equivalent to housemanship in Radiology for 6 months;

- (iv) has his name sent by the Principal of Medical College affiliated to this University for the D.M.R.D. course, attended by him and is certified by the Principal in respect of the requirement in (i), (ii) and (iii) above; and :-
 - (a) of having attended a part-time course of instruction in Physics as applied to medical Radiology for three months.
 - (b) of having attended along with (a) the department of Radiology of a teaching hospital, attached to a Medical College affiliated to this University for D.M.R.D. course to the satisfaction of Head of the Department of Radiology.
 - (c) of good moral and professional character.

The examination in Part II will be open to a person who :-

- (i) has passed Part I examination of D.M.R.D. or D.M.R.T. of this University.
- (ii) has his name sent by the Principal of the Medical College affiliated to this University for the D.M.R.D. course, attended by him and is certified by the Principal :-
 - (a) of having attended for one academic year a course of lectures and lecture demonstration in the Radiology department of the College;
 - (b) of having attended for one academic year, Radiodiagnostic section of the Radiology Department of the hospital to the satisfaction of the Head of the Radiology Department of College; and
 - (c) of a good moral and a professional character.

- Notes :-*
- (A) A candidate may appear in Part I and II examinations at the same time. If he fails in Part I, he shall be considered to have failed in both parts.
 - (B) The candidate shall have to pay fee for both the parts if he appears at the same time in Part I and II examinations.
 - (C) A candidate possessing diploma in Medical Radiology (Therapy) shall be exempted from appearing in Part I examination for D.M.R.D.

6. A candidate who fails in Part I and Part II examinations may be allowed to reappear without attending a fresh course, but such permission shall be granted only for next following examination. If he/she fails the second time he/she must attend additional Course for six months before he/she can be allowed to appear in the examination. He/She shall pay the same amount of admission fee for each time as prescribed in Regulation 3.

7. The syllabus shall be prescribed by the Senate from time to time.

8. The following shall be the subjects of the examination :-

Part I

Physics as applied to Medical Radiology :-

- | | | | |
|------|----------------------------------|----|-----------|
| (i) | One theory paper | .. | 100 marks |
| (ii) | A practical and oral examination | .. | 100 marks |

Part II

- | | | | | |
|----|--------------------|---|----|-----------|
| 1. | Written : | (i) Diagnostic Radiology | .. | 100 marks |
| | | (ii) Medical Sciences applied
to Medical Radiology | .. | 100 marks |
| 2. | Practical and Oral | | .. | 200 marks |

9. The medium of examination shall be English.

10. The minimum number of marks required to pass the examination shall be 50 per cent in (a) written and oral examination and (b) Clinical and practical examination separately.

11. A candidate who passes the examination at the first attempt and secures 80 per cent marks of the aggregate marks shall be declared to have passed with distinction.

12. As soon as possible after the examination, the controller of Examinations shall publish a list of candidates who have passed and each successful candidate of Part II examination shall be granted a diploma in Medical Radiology (Diagnostic).

13. The Diploma course in Medical Radiology under the old scheme shall be held for the last time in 1974 and after that for two years for failed candidates only.

DIPLOMA IN MEDICAL RADIOLOGY THERAPY (D.M.R.T.)

(To come into force w.e.f. the admissions of 1974)

1. The examination for diploma in Medical Radiology (Therapy) D.M.R.T. shall consist of two parts namely, Part I and Part II.

The examination in both parts will be held twice a year at a place or places as approved by the Syndicate. A candidate who has obtained the degree of M.B.B.S. before December can join the course from January without a house job and similarly a candidate who obtained the degree of M.B.B.S. before July without a house job. The examination will be held twice a year for Part I and Part II. Part I examination will be held (in January and June every year) after completion of one year and Part II examination will be held (in December and May) after completion of two years of course. Supplementary examination will be held after 6 months of annual examination.

2. The last dates by which the admission forms and fees for Part I and Part II examinations must reach the Controller of Examinations shall be six weeks before the date fixed for the commencement of examination concerned.

Provided the examination admission form and fee shall be entertained after that with a late fee as fixed by the Syndicate from time to time, but not later than four weeks before the commencement of the examination.

3. The examination fee for each part shall be as fixed by the Syndicate from time to time.

4. The examination in Part I shall be open to a person who :-

- (i) has obtained the degree of M.B.B.S. of this University or equivalent degree of any other University recognized by the Medical Council of India. .
- (ii) has been on the rolls of a Medical College affiliated to this University for Diploma in Medical Radiology (Diagnosis) course for two years.
- (iii) has his name sent by the Principals of Medical College affiliated to this University for the D.M.R.T. (Therapy) course, attended by him and is certified by the Principal in respect of requirement in (i) and (ii) above and :-
 - (a) of having attended a part-time course of instructions in Physics as applied to Medical Radiology for three months.
 - (b) of having attended alongwith (a) the department of Radiology of a teaching hospital attached to a Medical College affiliated to this University for D.M.R.T. course to the satisfaction of the Head of the Department of Radiology.
 - (c) of good moral and professional character.

5. The examination in Part II will be open to a person who :-

- (i) has passed Part I examination of D.M.R.T. or D.M.R.D. of this University;

- (ii) has his name sent by the Principal of Medical College affiliated to this University for the D.M.R.T. course attended by him and is certified by the Principal :-
- of having attended for one academic year a course and lecture demonstrations in the Radiology Department of the college;
 - of having attended for one academic year, Radio-therapy section of the Radiology Department of the hospital to the satisfaction of the Head of the Radiology Department of College;
 - of a good moral and a professional character.

- Notes :-*
- A candidate may appear in Part I and Part II examinations at the same time if he fails in Part I, he shall be considered to have failed in both parts.
 - The candidate shall have to pay fee for both the parts if he appears at the same time in Part I and part II examinations.
 - A candidate possessing diploma in Medical Radiology (Diagnostic) shall be exempted from appearing in Part I examination for D.M.R.T.

6. A candidate who fails in Part I and II examination may be allowed to appear without attending a fresh course but such permission shall be granted only for the next following examination. If he/she fails a second time he/she must attend additional course of six months before he/she can be allowed to appear in the examination. He/she shall pay the same amount of admission fee for each time as prescribed in Regulation 3.

7. The syllabus shall be prescribed by the Senate from time to time.

8. The following shall be subjects of examinations :-

Part I

Physics as applied to Medical Radiology :-

- | | | | |
|------|----------------------------------|----|-----------|
| (i) | One theory paper | .. | 100 marks |
| (ii) | A practical and oral examination | .. | 100 marks |

Part II

- | | | | | |
|----|--------------------|--|-----------|-----------|
| 1. | Written : | (i) Therapeutic Radiology | .. | 100 marks |
| | | (ii) Medical Sciences applied to Medical Radiology | .. | 100 marks |
| 2. | Practical and Oral | .. | 200 marks | |

9. The medium of examination shall be English.

10. The minimum number of marks required to pass the examination shall be fifty per cent in (a) written and oral examination and (b) Clinical and practical examination separately.

11. A candidate who passes the examination at the first attempt and secures 80% marks of the aggregate marks shall be declared to have passed with distinction.

12. As soon as possible after the examination, the Controller of Examinations shall publish a list of candidates who have passed, and each successful candidate of Part II examination shall be granted a diploma in Medical Radiology (Therapy).

13. The Diploma course in Medical Radiology under the old scheme shall be held for the last time in 1974 and after that for two years for failed candidates only.

MASTER OF SCIENCE IN PHARMACOLOGY

1. The examination for the Degree of Master of Science in Pharmacology shall be held annually in two parts, Part I at the end of the course of the first year, and Part II at the end of the course of the second year, in the month of April, or on such other date as may be fixed by the Syndicate.

2. (a) The last dates by which examination admission forms without late fee and with late fee for both Part I and Part II examinations must reach the Controller of Examinations shall be as fixed by the Syndicate from time to time.
- (b) The amount of examination fee to be paid by a candidate for each part shall be as fixed by the Syndicate from time to time.
3. The medium of examination shall be English. The examination shall be conducted by :-
- (i) Part-I One external and 1 internal examiner in each paper;
- (ii) Part-II (theory papers, practical and viva voce) a board of 4 examiners (2 external and 2 internal); and
Thesis 1 external examiner.

The question papers shall be set only by the external examiners.

4. Every candidate shall be examined in theory papers, practical, viva voce and thesis, as prescribed in the Syllabus.

5. The examination for Part I shall be open to any student in an institution affiliated for M.Sc. Pharmacology course provided he produces the following certificates signed by the Head of the institution :-

- (i) of having been on the rolls of the institution for the academic year preceding the examination;
- (ii) of having passed one of the following examinations from this University (or any other examination recognized by the Syndicate of this University as equivalent thereto) :-
- (a) B.Sc. degree in Anatomy, Physiology and Pharmacology;
- (b) M.B.B.S. degree.
- (c) B.V.Sc. degree.
- (iii) of having completed the prescribed course.

6. The examination in Part II shall be open to any student of an institution affiliated for the M.Sc. Pharmacology course, provided he produces the following certificates signed by the Head of the institution :-

- (i) of having remained on the rolls of the institution for the academic year preceding the examination;
- (ii) of having passed at least one academic year previously the M.Sc. Pharmacology Part I examination from this University;
- (iii) of having completed the prescribed course.

7. The minimum number of marks required to pass each examination shall be 50 per cent in (i) aggregate of written papers, (ii) practical and viva voce (combined) and (iii) thesis.

Provided that a candidate who fails in one or more papers and/or in the aggregate shall be given grace marks up to 1 per cent of the total aggregate marks of Part I or Part II examination (as the case may be) in order to be declared to have passed the examination.

8. A candidate who, having completed the prescribed course of instruction for the examination, has not appeared either in Part I or Part II examination, or having appeared in the examination has failed, will be allowed three consecutive chances from the date of completion of the course to appear either in Part I or Part II examination, as the case may be, without attending a fresh course of lectures, etc. If a candidate does not qualify in Part I in any of these examinations he shall not be allowed to continue his studies for this course.

9. Every candidate shall submit to the Registrar, at least one year before the date fixed for Part II examination, his application for approval of subject of his thesis by the Faculty of Medical Sciences, through the Head of the Pharmacology department in the teaching institution in which he is studying. The thesis which shall reach the Registrar at least six months before the date fixed for Part II examination shall be examined by an external examiner appointed by the Syndicate on the recommendation of the Faculty. If the candidate qualifies in the thesis he shall be permitted to appear in Part II examination.

10. (a) Part I examination shall consist of :-
- (i) one theory paper in General Pharmacology; and .. 100 marks
 - (ii) one theory paper on Bioassy .. 100 marks
- (b) Part II examination shall consist of :-
- (i) thesis .. 100 marks
 - (ii) three Theory papers of 100 marks each :-
 1. Systemic and special Pharmacology.
 2. Experimental Pharmacology, Chemical Pharmacology and Toxicology,
 3. Therapeutics.
 - (iii) Practical and viva voce on Experimental Pharmacology .. 200 marks

11. As soon as possible the Controller of Examinations shall publish a list of successful candidates. Each successful candidate of Part I examination shall receive a certificate.

The successful candidates shall be classified into two "classes" as under :-

- (a) Ordinary Pass .. Those who obtain less than 80 per cent of the aggregate marks of Part I and Part II examinations taken together.
- (b) Honours .. Those who obtain 80 per cent or more of the aggregate number of marks in part I and part II examinations taken together.

B.Sc. NURSING (POST-BASIC)

1. The duration of the course for the degree of B.Sc. Nursing (Post-Basic) shall be two years. The course shall comprise of 4 semesters viz., First, Second, Third and Fourth. The examinations for the First and Third semesters shall be held in the month of November/December each year or on such other dates as may be fixed by the Syndicate. The examination for the Second and Fourth semesters shall be held in April/May or on such other dates as may be fixed by the Syndicate. For Failed candidates a supplementary examination shall be held in the month of August/September or on such other dates as may be fixed by the Syndicate.

A candidate who does not qualify in all the subjects of First and Second semester examinations even in the supplementary examination shall have another chance of reappearing in the subjects in which he has failed along with the third semester examination.

2. Every candidate registering for the examination shall forward his application on the prescribed form at least four weeks before the commencement of the examination accompanied by a fee for each semester examination as fixed by the Syndicate from time to time, and a statement showing the subjects in which he desires to be examined.

A candidate on reappearing shall pay admission fee per subject in each semester examination subject to a maximum fee for the examination concerned and the admission fee for reappear would be in addition to the admission fee charged for other semester examination if any as fixed by the Syndicate from time to time, in which he was appearing.

3. Whenever the application form and fee of a candidate are received more than three days after the last date prescribed above, the candidate shall pay an additional fee as fixed by the Syndicate from time to time, provided that such application shall be entertained only up to two weeks before the commencement of examination.

4. The Principal of a college shall be empowered to condone shortage in attendance of lectures and practicals to the extent of 10 per cent of the required percentage of lectures and practicals in each subject.

5.1. A candidate who, having attended the prescribed number of lectures and practicals, fails to pass or present himself for the examination, may be allowed to appear in the two consecutive semester examinations. Provided that a candidate who fails to qualify in the first/third semester examination shall be allowed to continue his studies for the second/fourth semester examination and to appear simultaneously in the first/third and second/fourth semester examinations, but his result of the second/fourth semester examination shall not be declared till he qualifies the first/third semester examination within the required number of chances.

5.2. A candidate who fails in the First examination (first and second semesters) examinations may be admitted provisionally to the third semester class and allowed to appear in the remaining papers of first and second semesters (as allowed by Regulation 12) along with the third semester examination. The result of the third semester examination shall not be declared until he passes in all the subjects of the First examination. If the candidate does not clear the First examination within the number of chances available to him, his result of third semester examination shall be cancelled.

5.3. A candidate will not be permitted to appear in the fourth semester examination until he has passed in all the subjects of First and Second semester examinations.

6. The medium of examination shall be English.
7. (a) The First examination shall be open to a candidate who has passed :-
- (i) 10+ 2 examination under 10+2+3 scheme;
- or
- (ii) Any other examinations recongized by the Syndicate as equivalent thereto.
- (b) has been enrolled in a college affiliated for the B.Sc. in Nursing (Post-Basic) course during one semester preceding the first semester examination, and one academic year preceding the second semester examination;
- (c) has his name submitted to the Controller of Examinations by the Principal of the college last attended by him;
- (d) produces the following certificates signed by the Principal of the college last attended by him :-
- (i) of having satisfactory record of professional work and character;
 - (ii) of having attended not less than 75 per cent of lectures and practicals held in each of the subjects and 90 per cent of clinical practices in Nursing subjects in which she wishes to be examined;
 - (iii) of having satisfied the Principal as to his ability to give comprehensive nursing care;
 - (iv) of possessing good health;
 - (v) of having a minimum of three years experience in bedside nursing or public health nursing; and
 - (vi) of his being a registered nurse and registered mid-*wife fully qualified for nursing of men, women and children.
8. The final examination shall be open to a candidate who :-
- (a) has passed the first examination of B.Sc. in Nursing (Post-Basic) course not more than five years previously or any other examination recognized by the Syndicate as equivalent thereto;
 - (b) has been enrolled in a college affiliated for the B.Sc. in Nursing Course (Post-Basic) during one semester preceding the First Semester examination and one academic year preceding the Second Semester examination;
 - (c) has his name submitted to the Controller of Examinations by the Principal of the college;
 - (d) produces the following certificates signed by the Principal of the college last attended by him :-
- (i) of having satisfactory record of professional work and character;

*or substitute registration in the case of male candidates.

- (ii) of having attended not less than 75 per cent of lectures and practicals held in each of the subjects and 90 per cent of clinical practices in Nursing subjects in which she wishes to be examined.
- (iii) of possessing good health;
- (iv) of his having satisfied the Principal as to his ability to give comprehensive nursing care.

9. Every candidate shall be examined in the subjects and syllabus prescribed by the Senate from time to time.

There shall be internal assessment in each subject, for which separate marks shall be reserved as under :-

- (a) each practical 50 per cent marks.
- (b) each theory paper 30 per cent marks.

If a candidate fails in any subject/s he shall have to qualify afresh in internal assessment each time he takes examination in that subject/s.

10. The practical work done by each student during the year shall be recorded in a notebook, which must be attested by the Professor-in-charge of the subject concerned and presented to the examiners at the time of practical examination.

11. The minimum number of marks required to pass the examination for each semester shall be :-

- (a) 33 per cent in the subject of English;
- (b) 50 per cent in the Theory in all other subjects;
- (c) 50 per cent in Oral and Practical of each subject other than English.

12. A candidate who obtains pass marks in any subject shall be exempted from reappearing in that subject provided the whole semester examination is completed within four consecutive chances including the one in which the candidate was due to appear for the first time. Such a candidate will be allowed to join the next semester class and will be allowed to take examination in the "reappear" subject/s along with the next semester examination. A candidate who does not pass any semester Examination in full within the prescribed period shall neither be permitted to prosecute his studies nor allowed to appear in the examination.

13. As soon as possible after the examination, the Controller of Examinations shall publish a list of successful candidates.

Successful candidates shall be classified as under, on the aggregate marks obtained in the First and Final examinations taken together :-

- | | | |
|--|----|--|
| (a) those who obtain 75 per cent or more marks in a subject/s and/or aggregate; | .. | Distinction in the Subject/s concerned and/or aggregate. |
| (b) those who obtain 60 per cent or more but less than 75 per cent of the total marks; | .. | 1st Division. |
| (c) those who obtain 50 per cent or more but less than 60 per cent of the total marks. | .. | 2nd Division. |

14. Each successful candidate shall be granted a Certificate on qualifying in the First examination. B.Sc. degree will be awarded after qualifying in the Final examination, showing the division in which he has passed.

BACHELOR OF SCIENCE IN NURSING

1.1. The duration of the course for the degree of Bachelor of Science in Nursing including compulsory internship shall be four years, the first three years of which shall be divided into six semesters.

1.2. The examination for each Semester shall ordinarily be held in the month of November/December and April/May on such dates as may be fixed by the Syndicate. For failed candidates, a supplementary examination shall be held in the month of July/August or on such other dates as may be fixed by the Syndicate. A candidate who does not qualify in all the subjects of the preceding two semesters, even at the supplementary examination, but qualifies in 50% of the subjects in aggregate, shall have another chance of reappearing in the subjects in which the candidate has failed along with the current semester examination.

After a candidate has passed the Sixth semester examination, there shall be a compulsory internship of one year as described in Regulation 9.1.

1.3. The last dates for receipt of examination admission forms and fees without late fees and with late fees as fixed by the Syndicate from time to time, shall be notified by the Controller of Examinations.

2. A person who has passed one of the following examinations and has attained/ shall attain the minimum age of 17 years on December 31 of the year of admission shall be eligible to join the course:

(a) 10+2 examination passed with Physics/Chemistry/Biology and English;

OR

(b) Any other examination recognized by the Panjab University as equivalent thereto.

3.1. The examination for the First Semester shall be open to a student who has passed the examination laid down in Regulation 2. The examination for Second/Third/ Fourth/ Fifth/Sixth Semester shall be open to a student who has qualified in the First/ Second/Third/ Fourth/Fifth Semester as laid down in these regulations. A candidate for an examination for any Semester shall produce the following certificates signed by the Principal of the Nursing College affiliated to the University for the degree of Bachelor of Science in Nursing :-

- (i) of having been on the rolls of the college during the Semester preceding the examination;
- (ii) of good character;
- (iii) of having attended not less than 75% per cent of lectures and practicals held in each of the subjects and 90% per cent of clinical practices in Nursing subjects in which she wishes to be examined; and
- (iv) of possessing good health.

3.2. The Principal of the college shall have authority to condone shortage in attendances at lectures and practicals to the extent of 10 per cent.

3.3. A candidate who, having attended the prescribed number of lectures and

practicals, fails to pass or present herself for the examination, may be allowed to appear in the next two consecutive semester examinations without attending a fresh course.

4. The amount of examination fee to be paid by a candidate for each semester examination shall be as fixed by the Syndicate from time to time.

A candidate on reappearing shall pay admission fee per subject in each semester examination subject to a maximum fee prescribed for the examination concerned and the admission fee for reappear would be in addition to the admission fee charged, for other semester examination, if any, as prescribed by the Syndicate from time to time, in which he was appearing.

5.1. Every candidate shall be examined in the subjects and syllabus prescribed by the Senate from time to time.

5.2. There shall be internal assessment in each subject, for which separate marks shall be reserved as under :-

- (a) each practical 50 per cent marks.
- (b) each theory paper 30 per cent marks.

5.3. If a candidate fails in any subject/s, she shall have to qualify afresh in internal assessment each time she takes examination in that subject.

5.4. The Practical work done by each student during the year shall be recorded in a notebook, which must be attested by the Professor-in-charge of the subject concerned and presented to the examiners at the time of practical examination.

6. The medium of examination shall be English.

7.1. The minimum number of marks required to pass the examination shall be :-

- (a) 40 per cent in the subject of Hindi or English;
- (b) 50 per cent in theory in each subject other than Hindi or English;
- (c) 50 per cent in oral and practical of each subject.

7.2. A candidate who does not pass the whole of First Semester examination within four consecutive semester examinations including the First examination in which she was eligible to appear, shall not be allowed to continue her studies in Nursing.

7.3. A candidate who obtains pass marks in any subject shall be exempted from appearing in that subject provided the whole examination is completed within four consecutive semester examinations including the examination in which the candidate was due to appear for the first time. Such a candidate will be allowed to join the next semester class and will be allowed to take examination in the "reappear" subject/s along with the next semester examination.

7.4. A candidate shall not be permitted to appear in the Fourth Semester Examination until she has passed in all the subjects of First Semester Examination. A candidate shall not be permitted to appear in the Sixth Semester Examination until she has passed in all the subjects of the First, Second and Third Semester Examinations.

7.5. A candidate who fails in First and Second Semesters but qualifies in at least 50 per cent of the subjects may be admitted provisionally to the Third Semester class and allowed to appear in the remaining papers of first and second semesters along with the third semester examination. The result of the Third Semester examination shall not be declared until she passes

in all the subjects of First and Second semester examinations. If the candidate does not clear First and Second semester examinations within the number of chances available to her, her result of Third semester examination shall be cancelled and she shall repeat the whole course of the semester in which she has not qualified.

7.6. A candidate who fails in Third and Fourth semester examinations but qualifies in at least 50 per cent of the subjects, may be admitted provisionally to the Fifth Semester class and allowed to appear in the remaining papers of Third and Fourth Semesters along with the Fifth Semester examination. The result of the Fifth Semester examination shall not be declared until she passes in all the subjects of Third and Fourth Semester examinations. If the candidate does not clear Third and Fourth Semester examinations within the number of chances available to her, her result of Fifth Semester examination shall be cancelled, and she shall repeat the whole course of the Semester in which she has not qualified.

8.1. The Controller of Examinations shall publish the result of examination as soon as possible after the examination.

8.2. Successful candidates shall be classified as under, on the aggregate marks obtained in all the semester examinations taken together :-

- | | | | |
|-----|--|----|--|
| (a) | those who obtain 75 per cent or more marks in a subject/s and/or aggregate. | .. | Distinction in the Subject/s concerned and/or aggregate. |
| (b) | those who obtain 60 per cent or more but less than 75 per cent of the total marks. | .. | 1st Division. |
| (c) | those who obtain 50 per cent or more but less than 60 per cent of the total marks. | .. | 2nd Division. |

8.3. A candidate for the degree of Bachelor of Nursing who has completed her course in the minimum period and has passed each of her semester examinations at first attempt, and has obtained aggregate of seventy five per cent of the maximum marks in each subject of all the semester examinations, shall at the time of graduation be awarded the degree of B.Sc. Nursing with "honours".

9.1. Compulsory internship. Every candidate on passing the Sixth Semester examination and before being granted the degree shall undergo one year training as laid down by the Faculty of Medical Sciences.

9.2. There will be one oral and practical test at the end of internship training which shall be conducted by a Board appointed by the Principal of the College. The Board will review the certificates of the work given by the supervisor of each clinical area of placement and also assess the candidate through an oral and practical examination. If the Board is not satisfied with the performance of the candidate, the candidate will be required to undergo further training for such period as may be decided by the Board. Provided that the case of a student who goes abroad for internship training and cannot appear in the test at the end of the term being in a foreign country, the test may be conducted in her respective institution and report sent to the Principal of the College from which the student had gone along with the report on her work and if the Principal is satisfied she may recommend to the University the grant of degree. The internship will carry 100 marks which will be added to the aggregate.

M.Sc. NURSING

1.1. The duration of the course for the degree of Master of Science in Nursing shall be two academic years and the examination shall be divided into two parts viz.–Part I consisting of first and second semesters and Part II of third and fourth semesters. The examination for the first/third semester shall ordinarily be held in November/December and again in April/May of the following years along with second/fourth semester, on dates fixed by the Syndicate.

For failed candidates, a supplementary examination shall ordinarily be held in the month of July/August on a date fixed by the Syndicate.

1.2. The course for the degree of Master of Science in Nursing shall have four fields and a candidate shall offer one of them :-

- (i) Medical-Surgical Nursing;
- (ii) Community Health Nursing;
- (iii) Psychiatric Nursing; and
- (iv) Maternal and Child Health Nursing.

1.3. The last date for receipt of examination admission form and fee with and without late fee shall be as fixed by the Syndicate from time to time.

2. A person who has passed one of the following examinations with at least 50% marks in the aggregate shall be eligible to join first year (Part I) class of M.Sc. (Nursing) course :-

- (a) B.Sc. (Nursing) Post-Basic examination of the Panjab University;
- or
- (b) B.Sc. (Nursing) Basic examination of the Panjab University;
- or
- (c) Any other degree examination recognized by the Syndicate as equivalent to (a) or (b).

Provided she produces certificates :-

- (i) of possessing good health and minimum of two years' experience in Bed-side Nursing excluding the experience gained during the course of studies for various Nursing examinations or Public Health Nursing or Nursing Educational Institutions; and
- (ii) of being a registered nurse and mid-wife fully qualified for nursing of men, women and children.

3.1. The examination in the first semester of Part I shall be open to a student who :-

- (a) has passed not less than one semester previously, the requisite examination as laid down in regulation 2;
- (b) has remained on the rolls of the College affiliated for the M.Sc. (Nursing) course for one semester preceding the examination and submits the

following certificates signed by the Principal of the college :-

- (i) of having satisfactory record of professional work and conduct; and
- (ii) of having attended not less than 75 per cent of lectures and practicals held in each of the subjects and 90 per cent of clinical practices in nursing subjects in which he/she wishes to be examined.

3.2. The examination for Second/Third/Fourth Semester, as the case may be, shall be open to a student who has qualified in the various subjects as laid down in Regulation 7 and has remained on the rolls of the College affiliated for the M.Sc. (Nursing) course for the Semester concerned preceding the examination and submits the following certificates signed by the Principal of the College :-

- (i) of having satisfactory record of professional work and conduct; and
- (ii) of having attended not less than 75 per cent lectures and practicals held in each of the subjects and 90 per cent of clinical practices in nursing Subjects in which he/she wishes to be examined.

3.3. The Principal of the College shall have authority to condone a deficiency to the extent of 10 per cent of the required number of lectures and practicals.

4. The amount of examination fee to be paid by a candidate for each semester examinations shall be as fixed by the Syndicate from time to time.

A candidate on reappearing shall pay admission fee per subject in each semester examination subject to a maximum fee prescribed for the examination concerned and the admission fee for reappear would be in addition to the admission fee charged for other semester examination, if any, as prescribed by the Syndicate from time to time, in which he was appearing.

5. The medium of examination shall be English.

6.1. Every candidate shall be examined according to the syllabus approved by the Senate. He/she shall submit three copies of his/her Project Report/Thesis so as to reach the Controller of Examinations by April 30 of the year of Fourth Semester examination. The thesis shall be examined with a viva voce by an external and an internal examiner appointed by the Syndicate. The internal examiner will be the main guide in the particular thesis.

6.2. There shall be Internal Assessment for which marks shall be reserved as follows :-

Theory papers	..	30 per cent each.
Thesis	..	50 per cent.
Practical	..	50 per cent.

7.1. The minimum number of marks required to pass shall be-

- (i) 50 per cent in each theory paper;
- (ii) 50 per cent in each practical;
- (iii) 50 per cent in thesis; and
- (iv) 50 per cent in each Internal Assessment.

7.2. If a candidate fails in any subject he shall have to qualify afresh in internal assessment each time he takes examination in that subject.

7.3. If a candidate qualifies in at least 50 per cent of the subjects of the first and second semesters, he shall be allowed to qualify in the remaining subject/s in the supplementary examination in July/August of the same year.

If he fails to qualify in the remaining subject/subjects in the supplementary examination, he shall have to repeat the whole course.

If he does not clear all the subjects of the first and second semesters within two years of his admission to the first year class, he shall not be allowed to sit for or to appear in the examination and shall not be allowed to continue the course.

7.4. A candidate who qualifies in at least 75 per cent of the subjects of the first and second semesters may be allowed to join provisionally the third semester class and to appear in the remaining subjects of the first and second semesters along with third semester examination. If he does not qualify in the remaining subjects of the first and second semesters, his result of the third semester examination shall be cancelled and he shall have to repeat the whole course.

7.5. If a candidate qualifies in at least 50 per cent of the subjects of the third and fourth semesters, he shall be allowed to qualify in the remaining subject/subjects in the supplementary examination in July/August of the same year.

If he fails to qualify in the remaining subject/subjects, he shall have to repeat the whole course.

8.1. As soon as possible after the examination, the Controller of Examinations shall publish the result of all candidates.

8.2. Successful candidates shall be classified as under, on the aggregate marks obtained in Part I and Part II examination taken together :-

- | | | | |
|-----|--|----|--|
| (a) | those who obtain 75 per cent or more marks in a subject/s and/or aggregate. | .. | Distinction in the Subject/s concerned and/or aggregate. |
| (b) | those who obtain 60 per cent or more but less than 75 per cent of the total marks. | .. | 1st Division. |
| (c) | those who obtain 50 per cent or more but less than 60 per cent of the total marks. | .. | 2nd Division. |

Ph.D. DEGREE IN NURSING

1.1. A candidate for the degree of Doctor of Philosophy in the Faculty of Medical Sciences should have obtained from this University, the degree of :-

- (i) Bachelor of Medicine and Bachelor of Surgery for Ph.D. in Medical subjects;
- or
- (ii) Master of Pharmacy for Ph.D. in Pharmacy subjects;
- (iii) M.Sc. of special subjects such as Microbiology, Pathology, Pharmacology or any subject approved for the purpose by the University;
- (iv) Master of Nursing or Master of Science in Nursing or Master of Public Health (MPH) with B.Sc. Nursing, each candidate must have registration as a nurse in India.

1.2. The Faculty of Medical Sciences may, however, allow a person who has obtained the degree required in Regulation 1.1 from another University to supplicate for Ph.D degree.

2. Every candidate shall pursue research :-

- 1. (a) for a Medical subject, in a Medical College recognized for Ph.D degree;
- (b) for a Pharmacy subject, in the University Department of Pharmacy;
- (c) for a Nursing subject through a college of Nursing recognized for Ph.D. Degree.

or

2. at a centre approved for the purpose by the Faculty of Medical Sciences.

3.1. A person who wishes to be accepted as a candidate for Ph.D research shall, before starting research work apply through the Principal/Head of the Medical college/College of Nursing/University Department of Pharmaceutical Sciences as the case may be on the prescribed form of enrolment with a fee as prescribed by the Syndicate from time to time, which shall not be refundable except when he is found ineligible for enrolment in which case the fee may be refunded after a deduction of 25 per cent.

3.2. Application on the prescribed form for enrolment shall be considered by the University thrice a year as under :-

- (a) from July 15 to July 31;
- (b) from November 15 to November 30; and
- (c) from March 15 to March 31.

3.3. A person who holds a scholarship awarded by the Panjab University, the University Grants Commission or similar other body, and all teachers shall, on being enrolled, be exempted from the fee prescribed in this regulation. Other persons, on enrolment, shall pay a fee per mensem as fixed by the Syndicate from time to time, to the University/Medical College/ College of Nursing as the case may be provided that exemption may be allowed in accordance with the rules as may be framed by the Syndicate.

3.4. Within six months from the date of enrolment, the candidate shall furnish through the Principal/Head of Medical College/College of Nursing/University Department of Pharmaceutical Sciences as the case may be :-

- (a) a tentative title of the thesis; and
- (b) a tentative design of research project.

The candidate may seek approval of the title of the thesis later but he shall submit the thesis not earlier than one year from the date of approval of the title. The Faculty may, however, relax this limit wherever it is considered necessary by the Principal/Head of the College of Nursing/University Department of Pharmaceutical Sciences, as the case may be.

4.1. Before forwarding the application required in Regulation 3.4 the Principal/Head of the Medical College/College of Nursing/University Department of Pharmaceutical Sciences as the case may be, will satisfy himself, after proper scrutiny and test, including viva voce of adequate general knowledge of the candidate in his special field of study. He shall also satisfy himself that the subject offered is one which can be pursued, with profit and that the candidate possesses the requisite qualifications, equipment and capacity for research.

4.2. While forwarding the application, the Principal/Head of the College/Department as the case may be shall also recommend a suitable supervisor, to guide the applicant in his research work. He may, however, if he considers necessary, recommend joint supervisors.

5. Applications for registration as well as approval of title, etc. (Regulation 3.4) after scrutiny by the Registrar's office, shall be forwarded for consideration to the Board of Post-graduate Studies in Nursing.

6. The Board of Post-graduate Studies in Nursing shall consider each application and recommend whether in their opinion :-

- (a) the subject proposed for research; and
- (b) the supervisor recommended;

are suitable and if so, they may recommend approval of the same. If, however, the Board considers that the subject and/or supervisor are not suitable, they may either reject the application or may suggest suitable changes for reasons to be recorded.

7.1. The title of thesis and the supervisor recommended by the Board of Post-graduate Studies in Nursing shall be considered by the Faculty of Medical Sciences which shall have power to co-opt any other expert for a particular meeting.

The decision of the Faculty shall be final.

7.2. The Faculty of Medical Sciences will decide whether or not the applicant be registered.

8.1. Every candidate shall pursue his research work for three years from the date of his enrolment. Thereafter, he shall submit the thesis by one of the following dates whichever falls immediately next to the expiry of three years :-

First term	..	July 31
Second term	..	October 31
Third term	..	January 31
Fourth term	..	April 30

Provided that the Faculty, may, on the recommendation of the Board of Post-graduate Studies in Nursing for reasons to be recorded, grant exemption for a period not exceeding one year to a candidate who already possesses M.D./M.S. degree and to research worker of good standing who has already carried out useful recognized work and allow him to submit his thesis after two years of enrolment and research or any period fixed by the Board but it shall not be less than two years from the date of enrolment.

8.2. A candidate may apply through the Principal/Head of College/Department for permission to modify the title of his thesis. The application will be considered by the Board of Post-graduate Studies in Nursing and then by the Faculty.

8.3. After the expiry of one year's research work, a candidate may be allowed by the Principal/Head of the Medical College/College of Nursing/University Department of Pharmaceutical Sciences as the case may be, to continue his research work at some other approved centre if :-

- (a) facilities for further work do not exist at the Medical College/University Department of Pharmaceutical Sciences/College of Nursing as the case may be; or
- (b) the Principal/Head of the College/Department as the case may be is satisfied that it would be in the interest of the candidate to do further research work at such a centre.

Provided that the supervisor may, on scrutiny of the six-monthly reports received from the candidate, send for the candidate, if necessary, to assess the progress made by him in his research work.

9. The Principal/Head of the College/Department as the case may be in association with the Supervisor concerned shall test every candidate on the expiry of one year from the date of enrolment, in order to determine whether the candidate should be allowed to continue his research work. If a candidate is found unfit, his enrolment shall be cancelled.

10.1. Every candidate shall report in writing, at the end of every six months to the supervisor the work done by him during the six months. The supervisor will take such action on this report as he considers suitable depending on the nature of the report and other circumstances of the case.

10.2. The Principal/Head of the Medical College of Nursing/University Department of Pharmaceutical Sciences, as the case may be, will ensure that every supervisor submits reports on candidate's research work twice a year viz. :-

- (a) Between October 16 and 31;
- (b) Between April 16 and 30.

Reports of supervisors in all cases shall be submitted through the Principal/Head of the College/Department as the case may be to the Faculty for information and any action that the Faculty may consider necessary.

10.3. In the event of a difference arising between a candidate and Supervisor, the matter shall in the first instance be referred to the Dean of the Faculty. If the supervisor happens, to be the Dean, the matter shall be referred to the Board of Post-graduate Studies in Nursing, directly.

When the matter is referred to the Board, it will take a decision itself, after obtaining, if necessary, the advice of an expert. The decision of the Board shall be final.

10.4. If a supervisor gives unsatisfactory report on the work of a candidate, the position will be considered by the Board in order to decide whether the candidate should be allowed to continue his research for the Ph.D degree.

11.1. A candidate who is unable to complete his research work and thesis within the time allowed by these Regulations may apply, through his Supervisor and Principal/ Head of the College/Department concerned for grant of extension.

Extension may be granted by the Faculty up to a maximum of two years i.e., every candidate must submit his thesis on the expiry of a total period of five years from the date of enrolment.

Provided that :-

- (1) extension shall not be granted for more than a year at a time;
- (2) every application for grant of extension shall be accompanied by a fee as fixed by the Syndicate from time to time.

If the thesis is received after the prescribed period of five years, the Dean of the Faculty may condone delay, up to three months. The Vice-Chancellor may, on the individual merits of each case and on the recommendation of the Faculty grant extension to the extent he may deem necessary.

11.2. If a candidate fails to submit his thesis within the period allowed under Regulation 11.1, his enrolment shall be cancelled, but he may be allowed to register himself again with some other subject or in exceptional circumstances such as prolonged illness extending over several years or exigencies of military service, on the same subject.

12. If the Supervisor of a candidate who has been guiding research work for Ph.D. degree of another University, is employed on the staff of the Medical College/University Department of Pharmaceutical Sciences/College of Nursing, the candidate doing research work under his supervision may be allowed to enroll himself for the Ph.D. degree of this University under the same supervisor, subject to fulfillment of these regulations. Such a candidate shall not submit his thesis until after one year of his enrolment in this University.

13. On completion of the research work and in accordance with the period allowed in these Regulations, the candidate shall submit four printed or typewritten copies of his thesis and shall comply with the following conditions :-

- (i) The thesis shall be accompanied by :-
 - (a) a fee as fixed by the Syndicate from time to time;
 - (b) a certificate from his supervisor (as may be prescribed by the Syndicate) indicating the period for which the candidate has done research work and that the thesis is worthy of consideration for the award of Ph.D. degree;
- (ii) The thesis must be a piece of original research work characterised either by the discovery of new facts or for a fresh interpretation of the known fact or theories, in either case it shall give evidence of the candidate's capacity for original research, critical examination and judgment;
- (iii) The thesis shall be satisfactory in its literary presentation;

- (iv) The thesis shall indicate how it embodies the results of the candidate's own research or observations and the respects in which the candidate's investigations appear to him to have advanced study of the subject.

Provided that :-

- (a) A candidate may incorporate in his thesis contents of any work which he may have published on the subject but he shall not submit, as his thesis, any work for which a degree has been conferred by this or any other university;
- (b) No conjoint research with the Supervisor shall be permitted in regard to the subject matter of the thesis. The thesis must consist of the candidate's own work which must be his personal achievement. Provided further that a candidate may submit as subsidiary matter in support of his thesis any printed contribution for the advancement of his subject which may be published independently or conjointly. Where such subsidiary matter is submitted the candidate shall indicate specifically his personal contribution to such conjoint work duly attested by the supervisor;
- (c) The candidate shall declare in writing, duly countersigned by his supervisor and Principal/Head of the Medical College/College of Nursing/University Department of Pharmaceutical Sciences as the case may be that the thesis is not substantially the same as the one he may have already submitted to another University;
- (d) The greater portion of the work included in the thesis must have been done subsequent to his obtaining the basic qualification prescribed in Regulation 1.1.

14. Every candidate shall give an undertaking that he will not publish his thesis without the previous permission of the Syndicate. If this permission is granted, the candidate shall supply to the Controller of Examinations three copies of the published thesis, one copy to be placed in Medical College/College of Nursing/University Department of Pharmaceutical Sciences as the case may be and two copies in the University Library. The candidate will also furnish the University with copies of reviews of his publication which, along with the book, shall be brought to the notice of the Syndicate. He may publish the preliminary work with the permission of the Head of the Institution.

15.1. The thesis shall be referred to two examiners appointed by the Syndicate on the recommendation of the Faculty of Medical Sciences and the Vice-Chancellor. The examiners may recommend :-

that the thesis be accepted for the award of the Ph.D. degree;

or

that the thesis be rejected;

or

that the thesis be allowed to be resubmitted with improvement and for this purpose may make such suggestions as they may deem fit. Provided that the candidate shall ordinarily resubmit the revised thesis within one year of the date of supply of comments of the Examiner to him by the University. Special extension may be given by the Dean of the Faculty up to a maximum of one year.

15.2. A thesis shall be resubmitted, if so recommended by the examiners, only once, and it shall be examined by the examiners who assessed the original thesis unless both or any of them are unable or unwilling to do so.

15.3. A candidate who is required to resubmit his thesis must do so accompanied by half the amount of fee prescribed in Regulation 13.

15.4. In case there is difference of opinion between the two examiners in regard to the acceptance of the thesis i.e. one recommends its acceptance and the other its rejection, the Vice-Chancellor may refer the thesis to another examiner who shall ordinarily be out of the approved panel. In case one examiner recommends the acceptance and the other its revision, the revised thesis shall be sent for evaluation to the examiner who recommends revision.

15.5. The examiners shall indicate in their report whether :-

the thesis is fit for publication by the candidate in its original or modified form. In the latter case they may make definite suggestions for improvement.

or

the thesis is of such an outstanding merit that the University should undertake its publication at its own cost.

15.6. Except in the case of a thesis which is rejected, viva-voce shall be held in accordance with the rules prescribed in this behalf by the Syndicate, before a final decision is given on the thesis. The examiners may send, if they so desire, along with their reports, questions for use by the Board conducting the oral examination. Such a Board shall consist of three examiners appointed by the Vice-Chancellor of which the Principal/Head of the Medical College/University Department concerned and the Supervisor of the thesis shall be members. If two out of three members of the Board are present, the viva voce will be conducted provided that one of them is the external examiner.

15.7. A candidate whose thesis is rejected shall not be registered again for the Ph.D. degree with the same subject.

16. The reports of both the examiners on the thesis as well as of the other examiners for viva-voce shall be considered by the Syndicate. The Syndicate may decide :-

(i) whether the degree of Doctor of Philosophy be awarded;

or

(ii) whether the candidate be required to revise the thesis and resubmit it for re-examination;

or

(iii) whether the thesis be rejected.

17. The Controller of Examinations shall notify the result in accordance with the decision of the Syndicate.

DIPLOMA IN HOSPITAL ADMINISTRATION

1. The duration of the course leading to the Diploma in Hospital Administration shall be one year which shall extend over to two semesters.

2. The minimum qualifications for admission to the course shall be :-

Postgraduate Degree or Bachelor's Degree in any discipline with at least 50% marks in the aggregate and with not less than two years' administrative professional experience in hospital/health services.

3.1. Every candidate shall pay his examination fee for each semester at the time of admission to the course, alongwith other charges i.e. tuition fee etc., as prescribed by the Syndicate from time to time.

A candidate on reappearing shall pay examination fee per subject in each semester examination subject to a maximum fee prescribed for the examination concerned and admission fee for reappear would be in addition to the admission fee charged for other semester examination, if any, as fixed by the Syndicate from time to time, in which he was appearing.

3.2. The last date for receipt of examination admission form and fee with and without late fee shall be as fixed by the Syndicate from time to time.

4.1. The examination in the first semester shall be open to any student of the Department of Hospital Administration whose name is sent by the Head of the department and who :-

- (i) possesses good character;
- (ii) has passed not less than one semester previous to first semester examination any of the examination laid down in Regulation 2; and
- (iii) has been on the rolls of the Department, during one semester preceding the first semester examination and has attended not less than 75 per cent of the lectures, seminars, case discussions, Syndicate sessions, field trip, project work etc. in each paper; a deficiency up to 10 per cent may be condoned by the Head of the department.

4.2. The examination for first semester shall ordinarily be held in the month of December and the second semester in April, or on such dates as may be fixed by the Syndicate.

4.3. The examination for the second semester shall be open to any student of the Department of Hospital Administration whose name is sent by the Head of the department and who :-

- (i) has passed the first semester examination for Diploma in Hospital Administration from the Panjab University;
- (ii) has been on the rolls of the Department during the one semester preceding the second semester examination; and
- (iii) has attended not less than 75 per cent of the lectures, seminars, case discussions, Syndicate sessions, field trips, project work, etc. in each paper. However, a deficiency up to 10 per cent may be condoned by the Head of the Department.

4.4. The Head of the Department of Hospital Administration shall forward to the Controller of Examinations at least five weeks before the commencement of the examination for each semester, a list of the students who have satisfied the requirements of the regulations and are qualified to appear in the examination along with their admission forms and fees.

5. A student of the Department who, having attended the prescribed number of lectures, seminars, case discussions, Syndicate sessions, field trips, project work etc. does not appear in the examination of the first/second semester or having appeared in the examination has failed may be allowed to appear in the next consecutive examination without attending a fresh course of lectures, seminars etc.

6.1. Every student shall be examined in the subjects according to the syllabus prescribed by the Senate. Each paper will be of 50 marks out of which 10 marks shall be assigned for internal assessment in such manners as may be prescribed by the Board of Control. This would not apply to Internship Report presentation and viva voce (Paper No. III Semester 2). Internal assessment will be made by a committee consisting of all the teachers conducting the course jointly under the overall direction of the Heads of the Departments of Public Administration and Hospital Administration who shall forward the internal assessment marks to the Controller of Examinations at least one week before the commencement of examination.

6.2. The Head of the Department of Hospital Administration will preserve the records on the basis of which the internal assessment awards have been prepared for inspection, if needed by the University up to six months from the date of declaration of the results.

7. A student who is unable to clear the entire examination (both the semesters) in the course of two academic years shall not be allowed to continue his studies any longer or to reappear in the examination as a private candidate thereafter.

8. The medium of instructions and examination shall be English.

9. The minimum number of marks required to pass the examination for each semester shall be :-

- (i) 40 per cent in each written paper and internal assessment separately;
- (ii) 40 per cent in the Report presentation and viva voce;
- (iii) 50 per cent in the aggregate of each semester.

10.1. A student who fails in the examination but obtains at least 50 per cent marks in a written paper shall be deemed to have passed in that paper, and may be exempted from reappearing in that paper.

10.2. A student who is granted exemption under Regulation 10.1 may be allowed to continue studies in the second semester and may appear in such paper/s of the first semester in which, he has failed, along with the papers prescribed for the second semester in the next examination. If he does not pass in the remaining paper or papers of the first semester examination his result of the second semester examination shall be cancelled. However, he may be allowed to appear again as a late college student in the remaining paper or papers of the first semester in December next and repeat entire examination of the second semester in the next examination in April.

11. The internal assessment awards of a candidate who fails in the examination shall be carried forward to the next examination.

12. As soon as possible after the termination of the examination, the Controller of Examinations shall publish a list of the candidates who have passed.

13. Candidates who pass both the semesters of the examinations in first attempt obtaining 80 per cent or more marks of the aggregate of both the parts shall be declared to have passed with Distinction. All other successful candidates shall be classified as “pass”.

14. There shall be a Board of Control for the purpose of co-ordination and control :-

- (i) The Head, Department of Public Administration Ex-officio.
- (ii) The Head, Department of Hospital Administration, P.G.I. - Ex-officio.
- (iii) Two members nominated by the Syndicate.
- (iv) Two members nominated by the Academic Committee, P.G.I.

15. Viva-voce will be conducted by a Committee consisting of the following :-

- (i) The Head, Department of Public Administration -Ex-officio.
- (ii) The Head, Department of Hospital Administration -Ex-officio.
- (iii) External examiner appointed by the Board of Control.

16. The functions and powers of the Board of Control shall be the same as in the case of B.Sc. Honours School course.

B.Sc. IN OPHTHALMIC TECHNIQUES

1. The duration of the course for B.Sc. in Ophthalmic Techniques shall be three years. There shall be two semesters in each year. First semester shall ordinarily be from July to December and second semester shall be from January to May.

2. Admission requirement for the course shall be :-

(i) Candidate who has secured 50% marks in 10+2 (Science) or 10+2 (Vocational Course in Ophthalmic Techniques);

OR

(ii) Part I of B.Sc. Course of Panjab University;

(iii) Any other examination recognized by the Syndicate as equivalent to (i) or (ii).

3. The syllabi and courses of reading for B.Sc. in Ophthalmic Techniques shall be as approved by the Faculty of Medical Sciences from time to time.

4. Every candidate for B.Sc. in Ophthalmic Techniques shall send his application through Chairman/Head of the Department accompanied by the following certificates :-

(a) of good moral character;

(b) of having attended at least 66% of the total number of lectures and practicals separately in each course*; and

(*A course means a paper in theory and practical);

(c) of having passed the earlier examinations.

The Director-Principal of the College is empowered to condone the shortage in attendance of lectures to the extent of 10% lectures delivered in each course of theory and practical.

5.1 The last dates by which admission forms and fees must reach the Controller of Examinations without or with late fee as prescribed by the Syndicate from time to time shall be fixed by the University.

5.2 The amount of the admission fee for each semester to be paid by a candidate shall be prescribed by the Syndicate from time to time.

6. Examination in theory/practical shall be held at the end of each semester according to the scheme of examination approved by the Faculty of Medical Sciences.

7. The examination conducted at the end of each semester will be only in these courses, which have been offered, in the semester i.e. 1st, 3rd and 5th semester in December and 2nd, 4th and 6th semester in May.

8. A student shall be promoted to the next semester subject to the following conditions :

(a) The students are required to obtain 40% marks, in each course at theory and practicals (Major, Subsidiary) for a pass in that course and to earn the number of credits assigned to that course.

(b) A student shall be allowed to join the second year of Course if he has earned a minimum of 24 credits in the first year (credits in the case of students of Basic Medical Sciences) of the credits earned, a minimum of 50% credits must be in the major subject.

- (c) A student shall be admitted to the third year of Course if he has earned a minimum of 48 credits in the first two years (56 credits in the case of students of Basic Medical Sciences). However, he/she must have obtained at least 50% of the credits assigned to the major subject for the first two years.
- (d) A student who has not completed the maximum number of credits required to be completed in a year shall be allowed to clear the papers (in which he has failed), when the examination for this course is given for the regular students. However, no student can take the reappear examination in more than 50% of the number of papers he is normally required to take. For example, in the third semester, if the regular load of student is 20 credits, he can take the reappear examinations for not more than 10 credits of the first semester.
- (e) having obtained 80 or more credits (96 or more in the case of students of Basic Medical Sciences) in the B.Sc. a candidate may seek the award of the B.Sc. Pass degree in case he wishes to discontinue the Course. The division in the case of such candidates shall be determined by the regulations as for the students taking into account the best of the 80 credits which he has obtained.
- (f) For the purpose of determining the division, aggregate marks obtained by the candidate in all the six semester examinations for all the subjects (major, subsidiary and practicals) shall be taken into account.
- (g) Notwithstanding the above conditions, every student must complete the entire B.Sc. course within 5 years from the date of admission to First Semester.

9.1 The question papers shall be set jointly by the External and the Internal examiners. In case there are more than one person teaching the course, the Director-Principal of the College shall decide one of them to be the Internal examiner.

9.2 The evaluation shall be done by the External and Internal examiners independently. The answer-books shall first be evaluated by the External examiners, who shall not put marks in the answer-book and send those to the internal examiner and the award list to the Controller of Examinations. These shall then be examined by the internal examiner. In case the marks obtained by the candidate in a particular case differ up to 15% of the maximum marks, the average of the two awards would be assigned to a candidate. In case the difference is more than 15% it would be referred to a Third examiner and the average of the two best awards would be assigned to the candidate.

9.3 The re-evaluation of answer-books shall be permissible as per rules laid down by the University for re-evaluation from time to time.

10.1 The results will be tabulated and declared by the Controller of Examinations office.

10.2 The successful candidates shall be classified into three divisions as under :-

- (i) Those who obtain 60% or more of the total marks. : First Division
- (ii) Those who obtain 50% or more but below 60% of the total marks. : Second Division
- (iii) Those who obtain 40% or more but less than 50% of the total marks. : Third Division

11. The candidates shall be provided with the detailed marks cards of each semester. The degree shall indicate the division in which the candidate has passed the examination. The date of entry and leaving the Course shall also be shown on the certificate of the Degree awarded to such candidates.

(ix) Faculty of Pharmaceutical Sciences
BACHELOR OF PHARMACY

1.1. The duration of the course of instruction for the Degree of Bachelor shall be four years.

1.2. There shall be four examinations, namely, First (Part I), Second (Part II), Third (Part III) and Final (Part IV) which shall be held at the end of first, second, third and fourth academic session (year) respectively. All these examinations shall be held twice a year ordinarily in the months of April (annual) and September (supplementary) on such dates as may be fixed by the Syndicate.

2. The dates of commencement of the examinations and the last dates for receipt of examination admission forms and fees, without and with late fee as fixed by the Syndicate from time to time shall be notified by the Controller of Examinations.

3.1. The admission to the first semester course will be through an Entrance Test. It will be open to a candidate who has passed 10+2 examination with Physics and Chemistry as compulsory subjects along with one of the following subjects :-

1. Mathematics
2. Biotechnology
3. Computer Science
4. Biology

3.2. A student who has passed the First B.Pharm. examination shall be eligible to join the second year class.

3.3. A person who has passed Second B.Pharm. examination shall be eligible to join Third Year Class.

3.4. A person who has passed Third B.Pharm. examination shall be eligible to join Fourth (Final) Year Class.

4.1. A student who possesses qualifications laid down in Regulation 3.1/3.2/3.3/ 3.4, has been on the rolls of the University Institute of Pharmaceutical Sciences/a College affiliated for this examination and submits to the Registrar, the following certificates signed by the chairman of the University Institute/Principal of the College, shall be eligible to appear in First/ Second/Third/Final examination as the case may be :-

- (a) of good character;
- (b) of having attended not less than 75 per cent of the full course of the lectures and practicals in each of the course.

4.2. A deficiency in the required number of lectures and practicals may be condoned by the Head of the University Institute/College as the case may be up to 10 per cent in lectures and upto 5 per cent in practicals.

4.3. A candidate having attended the prescribed number of lectures and practicals, does not appear in all or any of the course(s) or having appeared fails in all or any of the courses in the examination held in April of the year may appear in such courses in the next three consecutive examinations. Provided that a candidate who has been allowed to join next higher class provisionally under Regulation 8.1 may appear in four consecutive examinations relevant to the higher class following immediately after he becomes eligible for appearing in it.

4.4. A candidate who is short of the required attendance at lectures and/or practicals for the examination to be held in April, may, after making up the deficiency, appear in the examination to be held in September and avail of three further chances in the manner stipulated in Regulation 4.3.

4.5. Candidate shall have to pass each paper independently. However a candidate who has failed or does not appear in one or two paper/papers carrying 200 marks, of a course/ courses at the First/Second/Third B.Pharm. examination shall be eligible to appear in such a paper/papers as also in the Second/Third/Final examination as the case may be, subject to fulfilling the requirements as laid down in regulation 4. I. The result of the higher examination shall not be declared till the candidate has cleared all the papers of the lower examination.

4.6. A candidate who does not appear or fails in all or any of the courses in first examination held in April of the relevant year and three consecutive examinations held thereafter shall be debarred from continuing his studies for the Degree of Bachelor of Pharmacy.

4.7. A candidate who does not appear or fails in all or any of the courses in Second/ Third/Final B.Pharm. Examination held in April of the relevant year and three consecutive examinations held thereafter shall be required to attend the course of instructions and appear in all courses of the relevant examination afresh.

5. The amount of examination fee to be paid by a candidate for each examination shall be as fixed by the Syndicate from time to time.

A candidate on reappearing shall pay admission fee per subject for each examination subject to a maximum fee prescribed for the examination concerned and admission fee for reappear would be in addition to admission fee charged for other examination, if any, as prescribed by the Syndicate from time to time, in which he was appearing.

6.1. The medium of examination shall be English.

6.2. The examination shall be held in accordance with the syllabus prescribed by the Senate.

6.3. Ten per cent of the marks in each paper of First/Second/Third and Final examinations shall be reserved for internal assessment, both written and practical, separately. The marks awarded shall be certified by the Chairman of the University Institute/Principal of the College as the case may be and counted towards the marks reserved for the respective paper for April/September examination, as the case may be.

7. The minimum marks required to pass an examination shall be 50% of the marks of each paper.

8.1. A candidate who fails in any of the course(s), may be allowed to join next higher class provisionally.

Provided that a candidate shall be allowed to join 3rd/4th year class if he has clear all the course(s) of 1st/2nd, year examination respectively.

8.2. A candidate who passes the First/Second/Third supplementary examination shall be eligible to appear in the Second/Third/Final examination, as the case may be, in April of the following year. A candidate who passes the First/Second/Third annual examination may appear in the Second/Third/Final examination, as the case may be in September of the same year if he fulfils the conditions laid down in Regulation 4.1.

9.1. The successful candidates shall be classified as under on the aggregate marks

obtained by them in the First, Second, Third and Final examination taken together :-

- | | | | |
|-----|--|----|-----------------|
| (a) | Those who obtain 80% or more of the aggregate marks. | .. | First Division |
| (b) | Those who obtain 60% or more of the aggregate marks. | .. | Second Division |
| (c) | Those who obtain 50% or more marks but below 60% of the aggregate. | .. | Third Division |

9.2. The Controller of Examinations shall declare the result as soon as possible after the examination.

9.3. A Successful candidate of the First/Second/Third examination shall be granted a certificate.

9.4. A successful candidate of the Final examination for the degree of B.Pharm. shall be granted a Diploma.

TRANSITORY REGULATION

1. The candidates who were admitted to B.Pharm. (Old Scheme) of this University before 1986 and are yet to clear B.Pharm. Part II/III examinations, respectively, can appear in these examinations, i.e. B.Pharm. Part II/III as private candidates under the old Regulations till the supplementary examinations of 1995, when the old scheme will terminate.

2. The candidates who fail to clear their examinations by September, 1995 can seek re-admission to B.Pharm. Part II/III course respectively under the new scheme of four year duration.

MASTER OF PHARMACY

1. The Duration of the course of instructions for the degree of Master of Pharmacy shall be of eighteen months comprising three semesters.

2. A person who holds valid GATE score and has passed one of the following examinations shall be eligible for admission to the first semester of Master of Pharmacy course.

- 3.1.** (a) B. Pharmacy examination of the Panjab University;
(b) An examination of another University recognised by the Syndicate as equivalent to (a).

3.2. The examination shall consist of three semesters :-

Semester I : at the end of an academic term of six months involving theory and laboratory courses.

Semester II : at the end of second academic term of six months including theory courses and presentation of a seminar.

Semester III : submission of a thesis on a research project allotted after the first semester and presentation of the work at a seminar.

3.3. The amount of examination fee to be paid by a candidate for each semester shall be determined by the Syndicate from time to time.

3.4. The medium of examination shall be English.

4.1. The examination of M.Pharm. Semester I and Semester II shall be held ordinarily in January/February and July/August respectively, on such dates as may be fixed by the Syndicate. The supplementary examination shall be ordinarily held after one month of declaration of result of each semester examination.

4.2. The date of commencement of M. Pharm. Semester I and Semester II examinations and the last date for the receipt of examination admission form and fee without and with late fee as fixed by the Syndicate from time to time, shall be notified by the Controller of examinations.

4.3. (a) The examination in M.Pharm. Semester I shall consist of two theory papers and two practicals. One theory paper on Modern Analytical and Pharmaceutical Techniques and its practical shall be compulsory for every candidate and the other theory paper and a practical out of the following Groups A, B, C or D.

Compulsory courses for all candidates :-

- | | | |
|----|---|-----------|
| 1. | Modern Analytical & Pharmaceutical Techniques | One Paper |
| 2. | Practical | One Paper |

GROUP-A (Pharmaceutics)

- | | | |
|-----------|---|--|
| Paper I | : | Physical Pharmaceutics & Pharmaceutical Technology |
| Practical | : | Pharmaceutics Laboratory |

GROUP-B (Pharmaceutical Chemistry)

Paper I	:	Advanced Organic Chemistry
Practical	:	Pharmaceutical Chemistry Laboratory

GROUP-C (Pharmacology)

Paper I	:	Advanced Pharmacognosy
Practical	:	Pharmacognosy Laboratory

GROUP-D (Pharmacology)

Paper I	:	Clinical Pharmacology and Drug Therapy
Practical	:	Pharmacology Laboratory

(b) The examination in M.Pharm. Semester II shall consist of two theory papers out of the following GROUPS A, B, C or D and a seminar related to research area allocated. The topic for research shall be allocated at the beginning of the II semester and presentation of a seminar related to the research topic shall constitute part of the examination.

GROUP-A (Pharmaceutics)

Paper II	:	Advanced Pharmacokinetics and Biopharmaceutics
Paper III	:	Pharmaceutical Biotechnology

GROUP-B (Pharmaceutical Chemistry)

Paper II	:	Chemistry of Natural Products
Paper III	:	Medicinal Chemistry

GROUP-C (Pharmacology)

Paper II	:	Drug Cultivation
Paper III	:	Drug Standardization

GROUP-D (Pharmacology)

Paper II	:	Drug Evaluation & Advanced Pharmacological Techniques
Paper III	:	Recent Advances in Pharmacology

4.4. A student who possesses qualifications laid down in Regulation 2, has been enrolled in the University Institute of Pharmaceutical Sciences and produces the following certificates signed by the Chairman of the University. Institute shall be eligible for appearing in M.Pharm. semester I and Semester II examination :-

- (a) of good character.
- (b) of having attended minimum of ten contact lectures of a course being taught one hour per week, 20 contact lectures of a course being taught two hours per week, 30 contact lectures for course being taught 3 hours per week and so on respectively and minimum of 20 practicals a semester both of the compulsory Course and course/s of major field of specialization.

4.5. Setting of theory question paper and evaluation of the answer scripts shall be done by the examiners as appointed by the Board of Postgraduate Studies in Pharmaceutical Sciences.

4.6. Practical examination of the laboratory course shall be conducted jointly by both the internal and external examiners.

4.7. Seminar to be delivered in second semester shall be evaluated by a panel of four examiners consisting of the Chairman, the Supervisor and two faculty members to be appointed by the Board of Postgraduate Studies in Pharmaceutical Sciences from the other two specialities of the department.

4.8. Each theory paper and each practical paper shall be of 100 marks. The Seminar shall be evaluated on the basis of Grades* O-F. The minimum number of marks required to pass M. Pharm. 1st Semester and 2nd Semester separately shall be—

- (a) 50% in the aggregate of all theory papers;
- (b) 50% in the practical paper, and
- (c) B (-) grade in the seminar.

	O+++	100%
	O	80%
	A	70%
*Grades	B+	60%
(marks)	B	55%
	B-	50%
	F	0

4.9. If a candidate fails in M. Pharm. I Semester or II Semester but obtains 50% or more marks in one or more theory papers or practical or seminar he/she may be exempted from appearing again in such paper.

A candidate on re-appearing shall pay admission fee per subject for each examination subject to a maximum fee for the examination concerned and the admission fee for the re-appear would be in addition to the admission fee charged for other examination, if any, in which he/she was appearing, shall be as prescribed by the Syndicate from time to time.

4.10. A candidate who is short of the required number of attendance at lectures and practical for Semester I and Semester II examination to be held in January and July may make up the deficiency and appear in the respective supplementary examination.

5.1. A candidate who having attended the course of instructions for M.Pharm. I Semester and II Semester in term of Regulation 4.3/4.4 does not appear in all or in any of the papers in the examinations that follow it or has failed to pass in all or any of the papers therein may be allowed to appear in the next three consecutive examinations from the date of eligibility. If the candidate does not clear the examination in four consecutive chances thus provided he/she shall not be allowed to continue studies for the degree of Master of Pharmacy. The result of higher examination shall not be declared till we declare the result of lower examination.

5.2. The examination of M.Pharm. III Semester shall consists of a thesis and its presentation at a seminar on a date fixed by the Chairman of the University Institute. The external examiner, members of the teaching staff and research students of the University Institute shall participate in the discussion on the thesis.

5.3. The subject of the thesis shall be approved by the Board of Postgraduate Studies in Pharmaceutical Sciences. Each student shall submit three typed/reprographed copies of the thesis, incorporating the result of investigations within three months of the expiry of the duration of the course envisaged in Regulation 3.1 or passing of M.Pharm. I & II Semester examinations whichever is later.

Provided that the Dean of University Instruction may give extension in submission of thesis up to a maximum of three months.

5.4. The evaluation of a thesis for Semester III examination shall be done by a board consisting of an external examiner, research supervisor of the candidate and the Chairman of the University Institute on the basis of the contents of thesis, its presentation and discussion thereon.

5.5. A candidate whose thesis for Semester III examination has been rejected may be allowed to resubmit a revised thesis after a period of three months from the date of declaration of result but not later than one year of the first submission of the thesis.

6.1. The successful candidate for Semester I and II examinations shall be classified as under :-

- | | | | |
|-----|--------------------------------------|----|-------------|
| (a) | Those who obtain 80% or more marks | .. | Distinction |
| (b) | Those who obtain 60% or more marks | .. | Ist Class |
| (c) | Those who obtain less than 60% marks | .. | IInd Class |

6.2. The thesis for Semester III examination shall be graded into first class or second class. The class so obtained shall be specified separately.

6.3. The relative merit of the successful candidates shall be determined on the basis of aggregate marks obtained in both Semesters I and II.

7. The Controller of examinations shall notify the result as soon as possible after the examination.

DOCTOR OF PHILOSOPHY IN THE FACULTY OF PHARMACEUTICAL SCIENCES

1.1. A candidate for the degree of Doctor of Philosophy in the Faculty of Pharmaceutical Sciences shall have obtained from this University, the degree of-

Master of Pharmacy in Pharmaceutics, Pharmaceutical Chemistry, Pharmacognosy or Pharmacology.

1.2. The Faculty may, however, allow a person to supplicate for Ph.D degree, if he has-

- (a) Graduated in Pharmacy; and
- (b) Obtained Master's degree in a subject related to the disciplines stated in Regulation 2.1 from another University/Institution.

2.1. A person who wishes to be accepted as a candidate for Ph.D. research shall before starting research work apply through the Chairman, on the prescribed form of enrolment with a fee which is non-refundable shall be as prescribed by the Syndicate from time to time.

2.2. The candidate on enrolment shall pay a fee per month as prescribed by the Syndicate from time to time.

Provided that awardees of scholarships/fellowships by the Panjab University, University Grants Commission and other similar bodies and teachers shall be exempted from payment of fees.

2.3. The candidate shall pursue research in the University Institute of Pharmaceutical Sciences or at a centre approved for the purpose by the Faculty.

3.1. Within one year from the date of enrolment, the candidate shall apply for registration on prescribed form through the Chairman, and furnish-

- (a) title of the thesis; and
- (b) design of research project.

Provided that the Board may condone the delay in submission of application for registration.

3.2. While forwarding the applications, the Chairman shall also recommend a supervisor/joint supervisors, to guide the applicant in his research work.

3.3. The applications for registration and approval of the title, etc. (Regulation 4.1) after scrutiny by the Registrar's office, shall be forwarded for consideration of the Board.

3.4. The Board shall consider each application and recommend whether-

- (a) the subject proposed for research; and
- (b) the supervisor/s recommended;

are suitable and, if so recommend approval of the same.

If, however, the Board considers that the subject and/or supervisor/s are not suitable, it may either reject the application or suggest suitable changes for reasons to be recorded.

3.5. The title of thesis and the supervisor/s recommended by the Board shall be considered by the Faculty which shall have power to co-opt an expert for the purpose for a particular meeting.

3.6. The Faculty shall decide whether or not the applicant be registered.

3.7. The candidate may apply through his supervisor and the Chairman for permission to modify the title of his thesis. The applications shall be considered by the Board in the first instance and then by the Faculty.

4.1. The candidate shall pursue his research work for three years. In case he is unable to complete his research work and thesis within this period, he may apply through his supervisor and the Chairman for grant of extension.

Extension may be granted by the Faculty up to a maximum of two years.

Provided that :-

- (1) extension shall not be granted for more than one year at a time; and.
- (2) every application for the grant of extension shall be accompanied by a fee as prescribed by the Syndicate from time to time.

4.2. After the completion of one year's research work, a candidate may be allowed by the Chairman to continue his research work at some other approved centre if :-

- (a) Facilities for further work do not exist at the University Institute.

OR

- (b) the Chairman is satisfied that it would be in the interest of the candidate to do further research work at such a centre. Provided that the supervisor may, on scrutiny of the six monthly reports received from the candidate, send for the candidate, if necessary, to assess the progress made by him work.

4.3. The candidate and his supervisor/s shall report on the progress of research work from time to time to the Chairman for consideration of the Board. Such reports may be submitted at least once in a year.

4.4. If a supervisor gives unsatisfactory report on the work of the candidate, the position will be considered by the Board in order to decide whether the candidate should be allowed to continue his research for the Ph.D degree.

4.5. In the case of a difference/dispute arising between the candidate and his supervisor/s, the matter shall be referred to the Board for adjudication. The Board may co-opt/ take advice of an expert if it deems necessary.

5.1. The candidate shall submit thesis within 30 days after the expiry of the period allowed under Regulation 5.1.

Provided that the Faculty may, on the recommendation of the Board, for reasons to be recorded, grant exemption for a period not exceeding one year to a candidate of good standing who has already carried out useful recognized work and allow him to submit his thesis, after two years of enrolment and research.

Provided further that the candidate shall submit his thesis not earlier than one year from date of registration.

The Faculty may, however, relax this condition, to the extent, it deems fit.

5.2. In case the candidate submits the thesis after the expiry of the period allowed under Regulation 5.1 read with Regulation 6.1, the Dean of the Faculty may condone delay, up to three months. The Vice-Chancellor may, on the individual merits of each case and on the recommendation of the Faculty, condone the delay to the extent he may deem necessary.

5.3. On completion of the research work and in accordance with the period allowed in these Regulations, the candidate shall submit four printed, typewritten or reprographed copies of his thesis and shall comply with the following conditions :

- (i) The thesis shall be accompanied by–
 - (a) a fee as fixed by the Syndicate from time to time.
 - (b) a certificate from his supervisor (as may be prescribed by the Syndicate) indicating the period for which the candidate has done research and that the thesis is worthy of consideration for the award of Ph.D. degree.
- (ii) The thesis must be a piece of original research work characterized either by the discovery of new facts or a fresh interpretation of the known facts or theories; in either case it shall give evidence of the candidate's capacity for original research, critical examination and judgment;
- (iii) The thesis shall be satisfactory in its literary presentation;
- (iv) The thesis shall indicate how it embodies the results of the candidate's own research or observations and the respects in which the candidate's investigations appear to him to have advanced study of the subject;

Provided that :

- (a) A candidate may incorporate in his thesis contents of any work which he may have published on the subject, but he shall not submit, as his thesis, any work for which a degree has been conferred by this or any other University/Institution.
- (b) No conjoint Research with the Supervisor shall be permitted in regard to the subject matter of the thesis. The thesis must consist of the candidate's own work, which must be his personal achievement. Provided further that a candidate may submit as subsidiary matter in support of his thesis, any printed contribution for the advancement of his subject which may have been published independently or conjointly. Where such subsidiary matter is submitted the candidate shall indicate specifically his personal contribution to such conjoint work duly attested by the supervisor.
- (c) The candidate shall declare in writing, duly countersigned by his supervisor and the Chairman that the thesis is not substantially the same as the one he may have already submitted to another University/Institution.
- (d) The greater portion of the work included in the thesis must have been done subsequent to his obtaining the basic qualification prescribed in Regulation 2.1/2.2.

6.1. The thesis shall be referred to two examiners appointed by the syndicate/Vice-Chancellor from amongst a panel approved by the Faculty. The Examiners may recommend–
That the thesis be accepted for the award of the Ph.D. degree;

OR

That the thesis be rejected;

OR

That the thesis be allowed to be resubmitted with improvement and for this purpose may make such suggestions, as they may deem fit. Provided that the candidate shall ordinarily resubmit the revised thesis within one year of the date of supply of comments of the Examiner/s to him by the University. Special extension may be given by the Dean of the Faculty up to a maximum of one year.

6.2. The thesis shall be resubmitted, if so recommended by the examiners only once, and it shall be examined by the examiners who assessed the original thesis unless both or any of them are unable or unwilling to do so.

6.3. A candidate who is required to resubmit his thesis must do so accompanied by half the amount of fee prescribed in Regulation 6.3.

6.4. In case there is a difference of opinion between the two examiners in regard to the acceptance of thesis, the Vice-Chancellor may refer the thesis to another examiner who shall ordinarily be out of the approved panel.

6.5. Except in the case of a thesis which is rejected, viva voce shall be held. The examiners of the thesis may send if they so desire, along with their reports, questions for use by a Board constituted for conducting the oral examination. This Board shall consist of three examiners appointed by the Vice-Chancellor of which the Chairman and the supervisor of the candidate shall be members. If two out of three members of the Board are present, the viva voce shall be conducted provided that one of them is the external examiner.

6.6. The reports of the examiners of the thesis as well as of the Board conducting oral examination shall be considered by the Syndicate. The Syndicate may decide—

- (i) Whether the degree of Doctor of Philosophy be awarded;
- (ii) Whether the candidate be required to revise the thesis and resubmit it for re-examination;
- (iii) Whether the thesis be rejected.

6.7. The Controller of Examinations shall notify the result in accordance with the decision of the Syndicate.

7.1. If a candidate fails to submit his thesis within the period allowed under these regulations, his enrolment/registration shall be cancelled, but he may be allowed to register himself again with some, other subject or in exceptional circumstances such as prolonged illness extending over several years or exigencies of military service, on the same subject.

7.2. If the Supervisor of a candidate who has been guiding research work for Ph.D. degree of another University is employed on the staff of the University Institute, the candidate maybe allowed to enroll himself for the Ph.D. degree of this University under the same supervisor, subject to fulfillment of these regulations. Such a candidate shall not submit his thesis until after one year of his enrolment in this University.

7.3. A person already registered for the Ph.D. degree, before these regulations come into force, shall, if he so desires, continue to be governed by the old regulations.

DIPLOMA IN PHARMACY AND DRESSER

1.1. The course of instruction for the Diploma in Pharmacy and Dresser's Course shall consist of :

- (a) academic training of two years' duration with a minimum of 180 working days of 5 periods of not less than 50 minutes each, in the 1st year, and 6 periods of not less than 50 minutes each, in the 2nd year, including sessional examination;
- (b) practical training in Pharmacy of not less than 750 hours covered in not less than three months, and 3 months' hospital attendance in Surgical department.

1.2. The course for this Diploma shall be divided into two parts (Preliminary and Final) and the examination for each Part shall be held twice a year in the months of June and September, on dates fixed by the Syndicate.

1.3. The dates of commencement of examinations (Regulation 1.2) and the last dates for receipt of examination admission forms and fees for the examinations without and with late fees as fixed by the Syndicate from time to time, shall be notified by the Controller of Examinations.

2.1. A person who has passed one of the following examinations shall be eligible to join the course :

- (i) Matriculation with Science or Physiology and Hygiene as one of the subjects;
- (ii) Higher Secondary with Science Group;
- (iii) Pre-University with Science Group;
- (iv) any other examination of this or another University/Board recognised as equivalent for this purpose by the Syndicate.

2.2. (i) A student who has passed the Preliminary examination of Diploma in Pharmacy and Dresser's Course of the Panjab University shall be eligible to join the final year class.

(ii) A student who has passed the Pre-Medical/Pre-Engineering examination of the Panjab University shall also be eligible to join the final year class subject to his passing the Preliminary examination in the subjects in which he has not passed the Pre-Medical/Pre-Engineering examination.

(iii) A candidate who has completed the prescribed course in the preliminary examination but does not appear or has failed in the annual examination shall also be allowed to join the second year class pending the declaration of the result of the supplementary examination but if he fails, he shall revert to the first year class.

3. A student who possesses the qualification laid down in Regulation 2 and produces the following certificates signed by the Principal of the College affiliated to the Panjab University for this course shall be eligible to appear in the Preliminary/Final examination as the case may be :

- (a) of good character;

- (b) has been enrolled during one academic year preceding the examination in a college affiliated for the Diploma in Pharmacy and Dresser's course;
- (c) of having attended not less than 75 per cent of full courses of (i) lectures delivered and (ii) practicals held for each of the subjects of the examination.

Provided that a deficiency up to 15 lectures and 15 practicals may be condoned by the Principal of the College.

4. The amount of examination fee for preliminary examination and final examinations to be paid by a candidate for each Part shall be as prescribed by the Syndicate from time to time.

5.1. The medium of examination shall be English.

5.2. The examination shall consist of theory papers, oral and practicals.

5.3. The first year and the second year courses shall include the subjects as follows. (The number of hours to be devoted for lectures and practical work for each subject shall not be less than that noted against it).

FIRST ACADEMIC YEAR

Subjects to be taught		No. of lecture periods	No. of practical periods
Inorganic and Physical Chemistry	..	100	250
Physics	..	50	100
Botany	..	50	100
Zoology	..	25	50
English	..	100	-
Anatomy, Physiology and Hygiene	..	50	30
	..	375	530

SECOND ACADEMIC YEAR

Subjects to be taught		No. of lecture periods	No. of practical periods
General Pharmacy	..	75	100
Dispensing Pharmacy	..	50	200
Forensic Pharmacy	..	25	-
Pharmaceutical Chemistry including General Organic Chemistry	..	100	100
Pharmacognosy	..	45	90
Pharmacology	..	25	30
Surgery	..	30	50
	..	375	570 (Demon)

Each lecture period and practical period shall consist of actual teaching or practical work of not less than 50 minutes.

PRACTICAL TRAINING

After the completion of the regular course, a candidate shall undergo a practical training in a recognised institution/Hospital, Pharmacy or Dispensary- for not less than 750 hours covered in not less than 3 months. During this course of training the candidates shall acquire-

1. a thorough knowledge of the keeping of records required by the various laws relevant to the professional Pharmacy; and
2. experience in-
 - (a) the manipulation of Pharmaceutical apparatus in common use ;
 - (b) the recognition, by sensory characters of chief crude drugs and chemical substances used in medicine;
 - (c) the reading, translation and copying of prescriptions, including the checking of doses;
 - (d) the dispensing of prescriptions illustrating the commoner methods of administering medicaments; and
 - (e) the storage of drugs and medicinal preparations.
3. Surgery, experience in-
 - (a) Practical nursing, including record of temp., enemaia and giving injection, etc. (b) First aid; (c) pre-operative and post-operative of technique; (d) management of operation theatre; (e) application of bandages, splints etc.

5.4. Every candidate shall be required to take the following subjects for the Preliminary Examination. (The examination in each subject shall consist of a theory paper and a practical carrying marks as shown below) :

Subjects		Marks for theory including sessional	Marks for practical including sessional
(a) Inorganic and Physical Chemistry	..	100	100
(b) Physics	..	50	50
(c) (Botany and Zoology) Biology	..	50	50
(d) English	..	50	-
(e) Anatomy, Physiology and Hygiene	..	50	50

The examination in each subject shall be of three hours' duration.

A regular record of both theoretical and practical class-work and examination conducted in an institution imparting training for this course shall be maintained for each student and 30 per cent of the total marks for each subject in theory and 40 per cent of the total marks for each subject in practical shall be allotted for these records.

The sessional marks shall be calculated on the basis of the average of the marks secured in the examination held during the year which shall not be less than three in number.

5.5. Every candidate shall be required to take the following subjects for the Final examination. (The examination in each subject shall consist of a theory paper and a practical carrying marks as shown below) :

Subjects of examination		Total marks for theory including sessional marks	Total marks for practical including sessional marks	Oral examina- tion marks
General Pharmacy	..	50	50	..
Dispensing Pharmacy	..	50	100	..
Forensic Pharmacy	..	50
Pharmaceutical Chemistry including General Organic Chemistry	..	100	100	..
Pharmacognosy	..	50	50	..
Pharmacology	..	50	50	..
Surgery including general nursing and ward-work (Surgical)	..	50	30	20
		400	330	20

The examination for each subject shall be of three hours' duration.

A regular record of both theoretical and practical class-work and examinations conducted in an institution imparting training for this course shall be maintained for each student and 30 per cent of the total marks for each subject in theory and 40 per cent of the total marks for each subject in practical shall be allotted for these records.

The sessional marks shall be calculated on the basis of the average of the marks secured in the examinations held during the year which shall not be less than three in number.

6.1. The minimum number of marks required to pass the examination shall be 40 per cent in theory papers and 40 per cent in practicals and 45 per cent in aggregate (written and practical) of each subject. In the subjects in which there is no practical examination, the pass marks in theory papers shall be 45 per cent.

6.2. A candidate who appears in all the subjects but fails in not more than two subjects in the Preliminary examination may, at his option take the examination in the subjects in which he has failed, or in all the subjects of examination. Provided, however, he must pass in all the subjects prescribed for the examination in four consecutive examinations including the examination in which he first appeared.

A candidate who is unable to clear the examination within four consecutive chances, commencing with first examination of his own class, shall not be allowed to continue his studies for this course.

6.3. A candidate who fails in the Final examination may, at his option, take the examination in the subjects in which he has failed or in all the subjects of examination.

A candidate who is unable to clear the whole examination even in four consecutive attempts shall have to appear in the subsequent examination in all the subjects.

A candidate who fails in the Final examination must attend the class for both practical and theoretical subjects to the satisfaction of the Principal/Head of the department before he is permitted to sit for the next examination.

7.1. The Controller of Examinations shall publish the result as soon as possible after the close of the examination.

7.2. A successful candidate who passes in all the subjects at the same examination and obtains not less than 75 per cent marks in a subject shall be declared to have passed with distinction in that subject.

7.3. A certificate of having passed the Final examination for Diploma in Pharmacy and Dresser's Course shall be granted to a successful candidate only after he has produced evidence of having duly completed not less than 750 hours' practical training in Pharmacy and three months' hospital attendance in Surgical department both of which can be done concurrently and covered in not less than three months in a recognised Institution to the satisfaction of the Head of the Institution in which he has undergone his academic training.

BACHELOR OF ARTS (FINE ARTS)

1.1. The duration of the course for the degree of Bachelor of Arts (Fine Arts) shall be three years. There shall be three examinations, viz., Part I at the end of the first year, Part II at the end of the second year, and Part III (Final) at the end of the third year, all of which will be held once a year ordinarily in the month of April, on such dates as may be fixed by the Syndicate.

1.2. A supplementary examination shall be held ordinarily in the month of September for candidates who have to re-appear under Regulation 6.2.

1.3. The last dates for receipt of examination admission forms and fees without late fees and with late fees as fixed by the Syndicate from time to time, shall be notified by the Controller of Examinations.

2.1. A person who has passed one of the following examinations shall be eligible to join first year class of the course :

(a) Higher Secondary or Pre-University examination in the Fine Arts Group of this University,

or

of the Board of School Education, Punjab or Haryana or of the Central Board of Secondary Education, Delhi;

(b) Higher Secondary or Pre-University examination in the Humanities Group with Fine Arts as one of the subjects of this University.

(c) any other examination recognised by the Syndicate as equivalent to (a) or (b).

2.2. A person who has passed Part I of the Bachelor of Arts (Fine Arts) examination of this University shall be eligible to join second year class of the course.

2.3. A person who has passed Part II of the Bachelor of Arts (Fine Arts) examination of this University shall be eligible to join third year class of the course.

3.1. The examination of Part I/II/III shall be open to a person who possesses the qualification as laid down in Regulation 2, and produces a certificate signed by the Head of the University Department of Fine Arts or the Principal of the College affiliated for the course :

(a) of having been on the rolls of the University Department of Fine Arts or a College affiliated for the course during the academic year preceding the examination;

(b) of having attended not less than 66 per cent of the total attendances of (a) lectures including seminars and (b) periods assigned to practical work in each subject;

(c) of having qualified in the sessional work.

3.2. Lectures, seminars and practicals shall be counted up to 15 days previous to the date of commencement of examination.

3.3. A deficiency in lectures, seminars and practical work may be condoned by the Head of the University department or the Principal of the affiliated college up to 5 per cent in each subject.

3.4. A student who having attended the prescribed number of seminars and practicals, does not appear in Part I/Part II/Part III (Final) examination, or having appeared in the examination, fails, may be allowed to appear as a late college student, in the examination concerned in the next examination and the one after the next.

4. The examination fee to be paid for each Part for a regular student and for an ex-student shall be as fixed by the Syndicate from time to time.

5.1. The examination shall be held in accordance with the syllabus approved by the Senate.

5.2. Marks in the internal assessment (based on home work and periodical tests) shall be forwarded by the Head of the University Department/Principal of the college to the Controller of Examinations in a consolidated statement, before the commencement of the annual University examination.

6.1. The minimum number of marks required to pass the examination shall be—

- (a) 50 per cent in the internal assessment;
- (b) 33 per cent in the written paper of each subject; and
- (c) 50 per cent in the sessional work of each subject.

6.2. Subject to the provisions of Regulation 7, a candidate who fails in the examination but obtains in a subject or subjects the minimum marks as laid down in Regulation 6.1, shall be exempted from appearing in such subject or subjects for the next two examinations. For the remaining subjects, a supplementary examination will be held ordinarily in the month of September of the same year.

If a candidate does not pass in the remaining subject or subjects in the next two examinations, he must repeat the entire examination.

A candidate appearing in one or more subjects under this regulation shall pay admission fee for the whole examination as prescribed in Regulation 4.

7. A candidate who is not successful in Part I examination in two consecutive years shall not be allowed to continue his studies for this course.

8.1. The Controller of Examinations shall publish the result of the examination as soon as possible after the termination of the examination.

8.2. The successful candidates shall be classified into two divisions as under :

- (i) those who obtain 60 per cent or more of the aggregate marks in Part I, Part II and Part III (Final) examinations taken together. .. First Division.
- (ii) those who obtain less than 60 per cent of the aggregate marks in Part I, Part II and Part III (Final) examinations taken together. .. Second Division.

8.3. A successful candidate, before being admitted to the degree of Bachelor of Arts (Fine Arts), shall be required to produce a certificate from the Principal of the college/Head of the department, of having successfully carried out the project work allotted to him by the Head of the department. The project work will carry 200 marks and will be assessed by a Board of Examiners consisting of three members, at least one of whom shall be an external examiner. The minimum number of marks required to qualify in the project work shall be 50 per cent of the aggregate.

BACHELOR OF FINE ARTS

1.1. The duration of the course leading to the degree of B.F.A. (Painting), B.F.A.(Applied Arts), B.F.A.(Sculpture) and B.F.A.(Graphics Print Making) shall be four years. All the four annual examinations for the Bachelor of Fine Arts (BFA) degree course shall be conducted by the Panjab University. These examinations will be held once a year ordinarily in the month of April or on such dates as may be fixed by the Syndicate.

1.2. The last date for receipt of examination admission form and fee without and with late fee shall be as fixed by the Syndicate and notified by the Controller of Examinations from time to time.

2.1. (a) A candidate who has passed one of the following examinations shall be eligible to join the course :-

- (i) Pre-University examination of this University or Higher Secondary examination of the Board of School Education of Punjab or Haryana or Himachal Pradesh or of the Central Board of Secondary Education, Delhi, with at least 40 per cent marks in the aggregate.
- (ii) Any other examination recognised by the Syndicate as equivalent to (i) above with at least 40 per cent marks in the aggregate.

(b) In addition to the condition laid down in 2.1 (a) a candidate must pass such test or tests, written and/or practical and/or oral as may be prescribed by the Principal.

2.2. Each candidate shall also be required to qualify in the subjects of English and Hindi or Panjabi (Elective subject) according to the syllabus of B.A. Part I Examination of this University. The Examination in these subjects will be held by the College within the duration of the Course. A candidate who does not pass the examination in any of these subjects may not be detained if otherwise eligible for promotion to the next higher class. A successful candidate of the B.F.A. examination shall be awarded the Degree after he has qualified in the above mentioned subjects.

Provided that a candidate who has passed the B.A. Part I, Part II or Part III examination or any other examination recognised by the Syndicate as equivalent thereto with English and Hindi or Panjabi or History of India will be exempted from taking the College Examination in the subject/subjects concerned.

In case of foreign students and students whose mother-tongue is other than Hindi or Panjabi will be required to pass in the subjects of English and History of India, according to the syllabus of B.A. Part I Examination.

2.3. Students who are eligible to appear for the annual promotion examination will have to undergo examination only in Theory Papers. Marks in practical subjects will be awarded on the basis of their performance, throughout the year as reflected in the portfolios and sessional work.

2.4. 35% of the total marks for sessional work shall be awarded by the subject teacher, and the break-up of these marks shall be as under :-

- (a) Process - 30%

- | | | | |
|-----|---------------|---|------|
| (b) | Product | - | 30% |
| (c) | Attitude | - | 15%. |
| (d) | Understanding | - | 25%. |

2.5. The remaining 55% marks for sessional work, based on the submission for portfolios shall be awarded after the holding of a viva voce examination by a Committee consisting of the subject teacher concerned, the Principal and one external subject expert.

The marks awarded by the subject teacher concerned may be moderated by a committee of three members consisting of the subject teacher concerned and the Principal or his representative and one more expert appointed by the Principal each year.

2.6. A candidate who has obtained a minimum of 45% marks in the practical of each subject and has obtained not less than 20 per cent marks in theory papers may be admitted to a supplementary examination of the same year or alongwith his annual examination of the higher class simultaneously. Such a candidate will be required to pay the examination fee per subject as prescribed by the University from time to time as fee for the supplementary as well as for annual examination. If he does not clear the theory paper/s concerned in the supplementary examination or alongwith the annual examination (or the next higher class) he shall revert to the lower class. However, a candidate who does not obtain pass marks in any of the practical papers will be declared fail in the examination and shall be required to rejoin the course of study afresh for one academic year in order to become eligible for appearing at the examination in a subsequent year, if otherwise eligible.

3.1. A candidate will be eligible to join the Final year class of the course only after he has passed all the three annual promotion examinations and the Second year Foundation Course examination.

3.2. The Second year and Final year examination shall be open to a candidate who possesses the qualifications as laid down in Regulations 1.2 and 3.1 and produces a certificate signed by the Principal of the college :-

- (a) of having been on the rolls of the college affiliated for the course during the academic year preceding the examination.
- (b) of having obtained not less than 50% marks of the total aggregate marks for sessional work in all practical subjects.
- (c) of having attended not less than 66% of the lectures and practicals in each subject delivered during each year of the course of study. Educational Trips/Tours to historical and other places of Educational interest organized by the college for each course of study shall count towards lectures/practical and exemptions from these trips will be given by the Principal only in exceptional circumstances to be recorded.

4. A deficiency in lectures and practicals may be condoned by the Principal of the affiliated college up to 5 per cent in each subject of theory/practical separately.

5. The fee for the Bachelor of Fine Arts (B.F.A.) examination conducted by the Panjab University shall be fixed by the Syndicate from time to time.

6. The examination shall be held in accordance with the syllabus approved by the Senate.

7. The medium of examination shall be English/Hindi/Panjabi.

8. In the case of Second year Foundation Course and Final year examination the sessional marks awarded shall be forwarded by the Principal of the college to the University on the prescribed form at least 10 days before the commencement of the University examination.

9. The minimum marks required to pass each examination to be held at the end of each year shall separately be 35% in each written paper and 45 per cent in practical paper consisting of sessional and examination marks taken together.

10. The final result will be compiled on the aggregate marks obtained in the Second year Foundation Course examination and Final year examination taken together.

11. The successful candidates shall be classified as under :-

- (i) Those who obtain 75 per cent or more of the aggregate marks, shall be placed in the First Division with Distinction.
- (ii) Those who obtain 60 per cent or more but less than 75 per cent of the aggregate marks shall be placed in First Division.
- (iii) Those who obtain 50 per cent or more but less than 60 per cent of the aggregate marks shall be placed in the Second Division.
- (iv) Those who obtain less than 50% of the aggregate marks shall be placed in the Third Division.

12. A candidate who does not clear the Final examination within a period of seven years of his admission to the First year shall not be allowed to continue his studies for B.F.A.

13. The Controller of Examinations shall publish the examination result as soon as it is possible after the termination of Final year Examination.

BACHELOR OF FINE ARTS

(New Scheme)

1.1. The duration of the course leading to the degree of B.F.A. (Painting), B.F.A. (Applied Arts), B.F.A. (Sculpture) and B.F.A. (Graphics Print Making) shall be four years. All the four annual examinations for the Bachelor of Fine Arts (BFA) degree course shall be conducted by the Panjab University. These examinations will be held once a year ordinarily in the month of April or on such dates as may be fixed by the Syndicate.

1.2. The last date for receipt of examination admission form and fee without late fee and with late fee as fixed by the Syndicate shall be notified by the Controller of Examinations.

2.1. (a) A candidate who has passed one of the following examinations shall be eligible to join the course :

- (i) +2 examination of the 10+2 system of education being conducted by the Punjab School Education Board or the Central Board of Secondary Education or any Board/University recognized by the Panjab University.
- (ii) Any other examination recognized by the Syndicate as equivalent to (i) above with atleast 40 per cent marks in the aggregate.

(b) In addition to the condition laid down in 2.1 (a) a candidate must pass such test or tests, written and/or practical and/or oral as may be prescribed by the Principal.

2.2. Each candidate shall also be required to qualify in the subjects of English and Hindi or Panjabi (Elective subject) according to the Syllabus of B.A. First Year examination of the University (New Scheme). The examination in these subjects will be held by the College within the duration of the Course. A candidate who does not pass the examination in any of these subjects may not be detained if otherwise eligible for promotion to the next higher class. A successful candidate of the Bachelor of Fine Arts examination shall be awarded the Degree after he has qualified in the above mentioned subjects.

Provided that a candidate who has passed the B.A. First Year, Second Year and Third Year examination (New Scheme) or any other examination recognized by the Syndicate as equivalent thereto with English and Hindi or Panjabi or History of India will be exempted from taking the College Examination in the subject/subjects concerned.

In case of foreign students and students whose mother tongue is other than Hindi or Panjabi will be required to pass in the subjects of English and History of India according to the syllabus of B.A. Part-I Examination (New Scheme).

3.1. A candidate will be eligible to join the Final Year Class of the course only after he has passed Ist Year, IInd Year and IIIrd Year examinations.

3.2. All the Four Annual Examination shall be open to a candidate who possesses the qualifications as laid down in Regulations 1.2 and 3.1 and produces a certificate signed by the Principal of the College :-

- (a) of having been on the rolls of the College affiliated for the course during the academic year preceding the examination.

- (b) of having obtained not less than 50% marks of the total aggregate marks of sessional work in all practical subjects.
 - (c) of having attended not less than 66% of the lectures and practicals in each subject delivered during each year of the course of study. Educational Trips/Tours to historical and other places of Educational interest organized by the college for each course of study shall count towards lectures/practicals and exemptions from these trips will be given by the Principal only in exceptional circumstances to be recorded.
4. A deficiency in lectures and practicals may be condoned by the Principal of the affiliated college up to 5%.
5. The fee for the First Year Examination and the Final Year Examination shall be as prescribed by the Syndicate for each examination.
6. The examination shall be held in accordance with the Syllabus approved by the Senate.
7. The medium of examination shall be English/Hindi/Punjabi.
8. In the case of all Four Annual Examination, the sessional marks awarded shall be forwarded by the Principal of the College to the University on the prescribed form at least 10 days before the commencement of the University examination.
9. The minimum marks required to pass each examination to be held at the end of each year shall separately be 35% in each written paper and 45% in practical paper consisting of sessional and examination marks taken together.
10. The final result will be compiled on the aggregate marks obtained in the First Year Examination, Second Year, Third Year and the Final Year Examination taken together.
11. The successful candidates shall be classified as under :-
- (a) Those who obtain 75% or more of the total aggregate marks .. First Division with Distinction
 - (b) Those who obtain 60% or more but less than 75% of the total aggregate marks. .. First Division
 - (c) Those who obtain 50% or more but less than 60% of the total aggregate marks. .. Second Division
 - (d) Those who obtain less than 50% of the total aggregate marks. .. Third Division
12. A candidate who does not clear the Final Examination within a period of six years of his admission to the first year shall not be allowed to continue his studies for Bachelor of Fine Arts.
13. The Controller of Examinations shall publish the result four weeks after the termination of the each Annual Examination or as soon as possible.
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**REMEDIAL COURSES FOR STUDENTS WHO PASSED THEIR DIPLOMA
EXAMINATIONS CONDUCTED BY GOVERNMENT COLLEGE OF ART, CHANDIGARH**

1.1. A person who has passed the Diploma examination from the Government College of Arts, Chandigarh, between 1978 and 1982, shall be eligible for the award of Degree of B.F.A. (Painting), B.F.A. (Applied Art), B.F.A. (Sculpture) and B.F.A. (Graphics-Print Making) on clearing two other examinations the qualifying examination and the Differential examination, which will be held in the months of April and December, every year, on a date fixed by the Syndicate. A candidate shall be given two consecutive chances for each of these examinations.

Provided that a person who already has passed the Pre-University examination of this University or an equivalent examination, will be exempted from taking the qualifying examination as specified in this Regulation.

1.2. Each candidate shall also be required to qualify in the subjects of English and Hindi or Panjabi (Elective subject) according to the syllabus of B.A. Part I examination of this University. The examination in these subjects will be held by the College within the duration of the course. A successful candidate of the B.F.A. examination shall be awarded the Degree after he has qualified in the above mentioned subjects.

Provided that a candidate who has passed the B.A. Part I, Part II or Part III examination or any other examination recognised by the Syndicate as equivalent thereto with English and Hindi or Panjabi or History of India will be exempted from taking the College Examination in the subject/subjects concerned.

In case of foreign students and students whose mother-tongue is other than Hindi or Panjabi will be required to pass in the subjects of English and History of India, according to the syllabus of B.A. Part I examination.

1.3. The fee for the qualifying examination shall be the same as for the Pre-University examination of this University and for the Differential Examination, it will be as prescribed by the Syndicate from time to time.

2.1. Candidates who have passed the Matriculation examination shall have to appear in the Qualifying examination, which shall be conducted by this University according to the syllabus of Pre-University examination. The candidates shall be required to offer any four subjects out of any group. There shall be no minimum pass marks in any paper but for passing the examination, a candidate shall be required to obtain a minimum of 40% marks in the aggregate of all the papers. The qualifying examination will be held at such time and date as may be fixed by the Syndicate.

2.2. The Differential examination shall be conducted by this University at such time and date as may be fixed by the Syndicate.

This Differential examination will consist of :-

- (i) One paper in Theory .. History of Art according to the syllabus of B.A. Part-III of Panjab University.
Marks : 200 Time : 3 Hours.

- (ii) One paper in Practical .. Composition in the subject concerned (Painting/Sculpture/Graphics-Print-Making) or Poster (in case of Applied Art) according to the syllabus of Final year of Bachelor of Fine Arts Examination.
Marks : 400 Time : 3 Hours.

2.3. The minimum pass marks will be 35% in Theory and 45% in Practical.

2.4. The candidates shall be required to surrender the Diploma at the time of submitting the examination admission form for the Differential Examination.

2.5. The marks obtained by the candidates in various subjects of the Diploma Examination will be supplied by the Principal of the college to the University Office and the degree of B.F.A. will be awarded on the basis of the consolidated result of the Diploma Examination and the Differential Examination.

2.6. Each successful candidate shall be classified as under :-

- (i) Those who obtain 75 per cent or more of the aggregate marks shall be placed in the First Division with Distinction.
 - (ii) Those who obtain 60 per cent or more but less than 75 per cent of the aggregate marks shall be placed in the First Division.
 - (iii) Those who obtain 50 per cent or more but less than 60 per cent of the aggregate marks shall be placed in the Second Division.
 - (iv) Those who obtain less than 50% of the aggregate marks shall be placed in the Third Division.
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BACHELOR OF ARCHITECTURE

(Old Scheme)

1.1. The duration of the course for the degree of Bachelor of Architecture (B.Arch.) shall be five years divided into ten semesters. There shall be an examination at the end of each semester except in the case of seventh semester during which there shall be 24 weeks Practical Training.

1.2. The Semesters examinations shall ordinarily be held in the months of December and May, on such dates as may be fixed by the Syndicate.

1.3. The last date for receipt of examination admission forms and fees without late fees and with late fee as fixed by the Syndicate from time to time shall be notified by the Controller of Examinations.

2. (a) The admission to the first semester course will be through an Entrance Test. It will be open to a candidate who has passed 10+2 examination with Physics and Mathematics as compulsory subjects along with one of the following subjects :-

1. Chemistry
2. Engineering Drawing
3. Computer Science
4. Biology

(b) The candidates shall have to qualify the Entrance Test for admission to the Course and the merit in the Entrance Test shall only be the basis for admission to the Architecture Course.

Provided that a candidate will be eligible for admission to the B. Architecture course if, before applying, he had qualified in the four subjects of English, Chemistry, Physics and Mathematics with at least 55% marks in aggregate even if he had qualified in any one of these as additional subjects after passing the relevant examination.

3.1. A candidate shall be promoted from one semester to the next semester provided he qualifies in at least one subject prescribed for the respective semester examination, fulfils the attendance and other requirements and completes practical training in the seventh semester (for promotion from seventh to eighth semester).

3.2. A candidate who is relegated in any subject/s in any semester (provided he is not required to repeat the semester) shall be permitted to continue the studies for the next semester and appear in the relegated subject/s in the next examination provided that in any examination, a candidate shall be allowed to appear at a time in a backlog of not more than 5 subjects of the previous semesters.

3.3. A candidate shall be allowed to join the fifth, sixth, seventh, eighth, ninth and tenth semester after he has passed in all the subjects prescribed for the first, second, third, fourth, fifth and sixth semesters, respectively.

3.4. A candidate who fails to pass the tenth semester as a regular student and desires to pursue his studies shall have to join the college, offering the course, as a casual student.

3.5. A candidate shall not be eligible for B. Architecture Degree, unless he obtains a pass grade in the prescribed practical training, which shall be decided by a Committee of Examiners appointed by the Principal, Chandigarh College of Architecture and the result sent to the University Office for declaration. The candidates whose work is not found to be satisfactory may be allowed to repeat the practical training after the tenth semester.

4.1. A student who possesses the qualifications laid down in Regulation 2, and has been enrolled in a college affiliated for this course during the Semester preceding examination of each semester may be allowed to appear in the examination of the semester concerned if he produces the following certificates signed by the Principal of the college :-

- (a) of good character; and
- (b) (i) of having attended not less than 66 per cent of the lectures, tutorials, laboratory and practical work (wherever prescribed) for each of the subjects except those involving Studio-work, viz., Architectural Design, Building Construction, Graphics & Sculpture, Architectural Drawing and Thesis.

Provided that a candidate who falls short of prescribed attendance in not more than two subjects may be permitted to appear in the next examination in those two subjects only after he has completed the requisite attendance in those two subjects. Lectures shall be counted up to seven days before the date of commencement of examination.

- (ii) of having completed the prescribed course, to the satisfaction of the Principal, in subjects involving Studio-work and thesis.

4.2. A deficiency up to 5 per cent in lectures, tutorials, laboratory and practical work for each subject, may be condoned by the Principal of the College.

4.3. A student of the college who has attended the prescribed number of the lectures and practicals, etc., for a semester but does not appear in the examination, or having appeared in the examination fails, may be permitted to appear in the next examination of that semester and the one after the next without attending a fresh course of lectures and practicals, etc.

5. The amount of examination fee to be paid by a candidate for Semester first to tenth shall be as prescribed by the Syndicate from time to time.

A candidate on reappearing shall pay admission fee per subject for each semester examination subject to a maximum of fee prescribed for the examination concerned and the admission fee for reappear would be in addition to the admission fee charged for other semester examination, if any, in which he was appearing, shall be as prescribed by the Syndicate from time to time.

A candidate on reappearing shall pay admission fee of Rs. 25 per subject for each semester examination subject to a maximum of fee prescribed for the examination concerned and the admission fee for reappear would be in addition to the admission fee charged for other semester examination, if any, in which he was appearing.

6.1. The examination shall be held in accordance with the syllabus prescribed by the Senate.

6.2. (a) There shall be internal assessment of sessional work in each subject. Sessional work shall broadly comprise class work, field work, workshop practice, laboratory practicals, studio work, home work and periodical tests.

(b) Marks in the internal assessment as defined in clause (a) shall be forwarded by the Principal of the college to the Controller of Examinations at the end of each semester, but at least a week before the commencement of the examination of each semester.

7. The medium of examination shall be English.

8.1. The minimum number of marks required to pass each semester examination shall be :-

- (a) 40 per cent in each subject of examination, including viva voce wherever provided;
- (b) 50 per cent in the internal assessment of sessional work in each subject as defined in Regulation 6.2 (a);
- (c) 50 per cent in the aggregate of the entire examination including internal assessment and examination marks.

Provided that a candidate who fails to obtain 50% marks in the aggregate may be given the option to re-appear in the subject/s of his choice to make up the deficiency in the aggregate marks.

8.2. A student who fails in the internal assessment in not more than two subjects shall be considered to have failed in these subjects. He may be permitted to appear in the next examination in these subjects only if he has secured the pass marks in the Internal assessment in these subjects.

However, a candidate who fails in internal assessment in more than two subjects shall repeat the full course as a regular student in an affiliated college and obtain pass marks in the Internal assessment of each subject in order to be eligible to appear in the University examination.

9.1. The Controller of Examinations shall publish the result at the end of each semester four weeks after the termination of examination or as soon as possible. A detailed marks card shall be issued for each semester (except for the seventh semester).

9.2. A candidate who has passed prescribed subjects for all the semesters shall be awarded the degree of Bachelor of Architecture stating the division in which he has passed. The division shall be awarded on the basis of total marks obtained in the examinations of all the semesters as follows :-

- (a) Those who obtain 75% or more of the total aggregate marks .. First Division with Distinction

Provided they Passed all the examinations at their first attempt in the main examination within five years from the date of commencement of the first session in which they were enrolled as students of this course.

- (b) Those who obtain 60% or more but less than 75% of the total aggregate marks. .. First Division
- (c) Those who obtain less than 60% of the total aggregate marks. .. Second Division

BACHELOR OF ARCHITECTURE (NEW SCHEME)

1.1. (a) The duration of the course for the degree of Bachelor of Architecture (B.Arch.) shall be five years divided into ten semesters. There shall be an examination at the end of each semester except in the case of seventh semester during which there shall be 24 weeks Practical Training. Ten semesters shall further be grouped in two stages viz. stage I from first to sixth semester and stage II from seventh to tenth semester.

(b) Only those persons who have secured 60 per cent or more aggregate marks in all the subjects prescribed for first stage of the course shall be permitted to continue their studies at the second stage of the course. Those eligible to take up this second stage shall have the option of completing it at a stretch or in parts, but within five years from the completion of the first stage. Those who fail to complete the second stage of the course within the stipulated period shall be considered unsuitable for the award of the degree of Bachelor of Architecture (B.Arch.).

1.2. The Semester examinations shall ordinarily be held in the months of December and May, on such dates as may be fixed by the Syndicate.

1.3. The last date for receipt of examination admission form and fee without late fee and with late fee as fixed by the Syndicate from time to time shall be notified by the Controller of Examinations.

Provided that the candidates shall have to pay an extra late fee after the stipulated last date is over with a late fee as prescribed by the Syndicate from time to time. No candidate shall be permitted to deposit extra late fee directly with the University.

2. A person who has passed one of the following examinations with at least 55 per cent marks in the aggregate of Physics, Chemistry, Mathematics and English (all taken as compulsory subjects) shall be eligible to join the course :-

- (a) +2 examination of the 10+2 system being conducted by the Punjab School Education Board;
- (b) +2 examination of the 10+2 system being conducted by the Central Board of Secondary Education or any Board/University recognized by the University;
- (c) B.Sc. Part I (Non-Medical)/Pre-Engineering examination of the University or any other University/Board recognized by the University;
- (d) Any other examination recognized by the Syndicate as equivalent to (a), (b) or (c).

Provided that a candidate will be eligible for admission to the B. Architecture course if, before applying, he had qualified in the four subjects of English, Chemistry, Physics, and Mathematics with at least 55% marks in aggregate even if he had qualified in any one of these as additional subjects after passing the relevant examination.

Provided further that the concerned subject in which the candidate had qualified as additional subject is exactly of the same standard as that of the four subjects, namely, Physics, Chemistry, Mathematics and English, which he is required to have passed in qualifying examination as prescribed under (a), (b), (c) and (d) for admission to the B.Arch. Course.

3.1. A candidate shall be promoted from one semester to the next semester provided he qualified in atleast five subjects prescribed for the respective semester examination, fulfils the attendance and other requirements and completes practical training in the seventh semester (for promotion from seventh to eighth semester).

3.2. A candidate who is relegated in any subject/s in any semester (provided he is not required to repeat the semester) shall be permitted to continue the studies for the next semester and appear in the relegated subject/s in the next examination, provided that in any examination, a candidate shall be allowed to appear at a time in a backlog of not more than 5 subjects of the previous semesters.

3.3. A candidate shall be allowed to join the fourth, fifth and sixth semester after he has passed in all the subjects prescribed for the first, second and third semester, respectively.

3.4. A candidate shall not be eligible for B. Architecture degree, unless he obtains a pass grade in the prescribed practical training, which shall be decided by a Committee of Examiners appointed by the Principal, Chandigarh College of Architecture and the result sent to the University Office for declaration. The candidate whose work is not found to be satisfactory may be allowed to repeat the practical training after the tenth semester.

4.1. A student who possesses the qualifications laid down in Regulation 2, and has been enrolled in a college affiliated for this course during the semester preceding examination of each semester may be allowed to appear in the examination of the semester concerned if he produces the following certificates signed by the Principal of the college :-

- (a) of good character; and
- (b) (i) having attended not less than 66 per cent of the lectures, tutorials, laboratory and practical work (wherever prescribed) for each of the subjects except those involving studio work, viz., Architectural Design, Building Construction, Graphics and Sculpture, Architectural Drawing and thesis.

Provided that a candidate who falls short of prescribed attendance in not more than two subjects may be permitted to appear in the next examination in those two subjects only after he has completed the requisite attendance in those two subjects. Lectures shall be counted up to seven days before the date of commencement of examination.

- (ii) of having completed the prescribed course, to the satisfaction of the Principal, in subjects involving studio work and thesis.

4.2. A deficiency up to 5 per cent in lectures, tutorials, laboratory and practical work for each subject, may be condoned by the Principal of the college.

4.3. A student of the college who has attended the prescribed number of lectures and practicals, etc. for a semester but does not appear in the examination, or having appeared in the examination fails, may be permitted to appear in the next examination of that semester and the one after the next without attending a fresh course of lectures and practicals.

5. The amount of examination fee to be paid by a candidate for semester first to tenth shall be as prescribed by the Syndicate from time to time.

A candidate on reappearing shall pay admission fee per subject for each semester examination subject to a maximum of fee prescribed for the examination concerned and the admission fee for reappear would be in addition to the admission fee, charged for other semester examination, if any, in which he was appearing, shall be as prescribed by the Syndicate from time to time.

6.1. The examination shall be held in accordance with the syllabus prescribed by the Senate.

6.2. (a) There shall be internal assessment of sessional work in each subject. Sessional work shall broadly comprise class work, field work, workshop practice, laboratory practicals, studio work, home work and periodical tests.

(b) Marks in the internal assessment as defined in clause (a) shall be forwarded by the Principal of the College to the Registrar at the end of each semester, but before the commencement of the examination of each semester.

7. The medium of examination shall be English.

8.1. The minimum number of marks required to pass each semester examination shall be :-

- (a) 40 per cent in each subject of examination including viva-voce wherever provided;
- (b) 50 per cent in the internal assessment of sessional work in each subject as defined in Regulation 6.2 (a);
- (c) 50 per cent in the aggregate of the entire examination including internal assessment and examination marks.

Provided that a candidate who fails to obtain 50% marks in the aggregate may be given the option to re-appear in the subject/s of his choice to make up the deficiency in the aggregate marks.

8.2. A student who fails in the internal assessment in not more than two subjects shall be considered to have failed in these subjects. He may be permitted to appear in the next examination in these subjects only if he has secured the pass marks in the internal assessment in these subjects.

However a candidate who fails in internal assessment in more than two subjects shall repeat the full course as a regular student in an affiliated College and obtains pass marks in the internal assessment of each subject in order to be eligible to appear in the University Examination.

9.1. The Controller of Examinations shall publish the result at the end of each semester four weeks after the termination of examination or as soon as possible. A detailed marks card shall be issued for each semester (except for the seventh semester).

9.2. A candidate who has passed all the subjects prescribed for stage I/stage II shall be awarded the degree of Bachelor of Building Science (B.B.S.)/Bachelor of Architecture (B.Arch.) stating the division in which he has passed. The division shall be awarded on the basis of total marks obtained in the examinations of all the semesters as follows :-

- (a) Those who obtain 75% or more of the total aggregate marks. .. First Division with Distinction

Provided they Passed all the examinations at their first attempt in the main examination within five years from the date of commencement of the first session in which they were enrolled as students of this course.

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| (b) Those who obtain 60% or more but less than 75% of the aggregate marks. | .. | First Division |
| (c) Those who obtain less than 60% of the total aggregate marks. | .. | Second Division |
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MASTER OF ARCHITECTURE EXAMINATION

1. The duration of the Course for the degree of Master of Architecture for full-time students shall be minimum one year and for part-time students minimum 20 months.

2. The examination for the M.Arch. shall be open to any candidate who :-

- (a) has passed at least one year previously the B.Arch. examination of the Panjab University or any equivalent examination recognized by the Panjab University;
- (b) has remained on the rolls of Chandigarh College of Architecture for the minimum prescribed period; and
- (c) is recommended by the Principal, Chandigarh College of Architecture for admission to the examination.

3. The medium of examination shall be English.

4. Every candidate shall forward his examination admission form countersigned by the Principal, Chandigarh College of Architecture, accompanied by a fee as prescribed by the Syndicate from time to time and a statement giving the subject of his dissertation. The candidate shall also send his dissertation at the time of forwarding his application.

5.1. The examination shall consist of a dissertation containing the research work of the candidate.

5.2. There shall be internal assessment of the work of the candidate on the basis of progress, quality and general performance of the work. The marks in the internal assessment shall be forwarded by the Principal of the College to the Controller of Examinations along with the dissertation.

6.1. The evaluation of the dissertation shall be conducted by an external examiner and if found acceptable then viva voce will be conducted by both internal and external examiners and marks awarded jointly.

6.2. In case the external examiner finds that the dissertation is not acceptable the candidate shall be declared failed by the University without holding any viva voce.

7. A candidate who has been declared fail may be permitted to join the Course as a fresh candidate.

8. The Board of Studies shall have the power to make recommendation to the Syndicate in all matters concerning the M.Arch. Course including the appointment of examiners.

9. (a) The total marks for the examination shall be 500 of which internal assessment shall carry 200 marks.

(b) The minimum pass marks shall be :-

- (i) 50% in internal assessment;
- (ii) 40% in the dissertation including viva voce.

(c) A candidate who fails in the internal assessment shall not be permitted to present his Thesis for examination until such time, he obtains the minimum pass marks prescribed for internal assessment.

(d) Successful candidates shall be classified as under :-

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| (a) Those who obtain 75% or more of the total aggregate marks. | .. | First Division with Distinction |
| (b) Those who obtain 60% or more but less than 75% of the total aggregate marks. | .. | First Division |
| (c) Those who obtain 50% or more but less than 60% of the total aggregate marks. | .. | Second Division |
| (d) Those who obtain less than 50% of the aggregate marks. | .. | Third Division |

10. A successful candidate may publish original result of his Thesis as papers in Journals of repute.

11. A candidate who has passed M.Arch. examination of this University may be allowed to re-submit his Thesis on the same subject for the purpose of improving the previous performance by attending a regular Course. He may be given two chances to improve his previous performance within the period of 5 years. His result will be declared only if he improves his previous performance.

M.A. IN INDIAN THEATRE

(To take effect from admissions of 1983)

1.1. The duration of the course of instruction for M.A. in Indian Theatre examination shall be two years and the examination shall be held in two parts, viz. Part I at the end of the course of first year and Part II at the end of the course of second year.

1.2. The annual examination shall be held once in a year in the month of April/May on the date fixed by the Syndicate.

1.3. The last date for receipt of the admission form and fee with and without late fee shall be fixed by the Syndicate from time to time.

2.1. A person who has passed anyone of the following examinations shall be eligible to join the M.A. Course in Indian Theatre :-

- (a) A Bachelor's Degree from Panjab University;
- (b) Any other degree recognized by the Panjab University as equivalent to (a).

2.2. The final selection will be made through an Entrance Audition, the details of which will be worked out by the Advisory Board.

3.1. A person who has passed the examination as laid down in Regulation 2.1 and has been on the rolls of the University Department of Indian Theatre for the academic year preceding the examination may be admitted to the examination on production of the following certificates signed by the Head of the Department :-

- (a) of good character; and
- (b) of having attended not less than 90% of the practicals (exercises, rehearsals and productions) and not less than 75% of the lectures.

3.2. A deficiency in the required number of lectures and practicals as laid down in the Regulation No. 3.1 may be condoned as under :-

- (a) up to 15 lectures and practicals .. by the Head of Department
- (b) up to 20 lectures and practicals .. by the Dean of University Instruction.

4. The amount of examination fee to be paid by a candidate shall be as fixed by the Syndicate from time to time.

5.1. The medium of examination shall be English or Hindi or Punjabi or Urdu.

5.2. The examination shall be held according to the syllabi and courses of reading as approved by the Senate.

6.1. The minimum number of marks required to pass the examination shall be 50% separately in each paper/practicals.

6.2. A candidate who fails only in one of the theory papers and obtains 50% marks in each of the other papers may be allowed to reappear in the paper in supplementary examination.

If he fails to qualify in the supplementary examination he will have another chance to qualify in the next annual examination failing which his candidature and result for M.A. Part II examination shall stand cancelled.

7. (a) A candidate who fails in M.A. Part I or in M.A. Part II shall be given two chances to clear it provided he joins the class as a regular student in the following academic session. He shall not be allowed to appear as a Private candidate.

(b) A candidate who passes M.A. Part I and then discontinues shall be allowed to join M.A. Part II as a regular student under exceptional circumstances to the satisfaction of the Advisory Committee of the Department, provided the gap is not more than three academic years of passing Part I examination.

8.1. Four weeks after the termination of the examination or as soon thereafter as possible the Controller of Examinations shall publish the result.

8.2. The successful candidates shall be classified as Follows :-

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| (a) | Those who obtain 75% or more of the aggregate marks. | .. | First Division with Distinction. |
| (b) | Those who obtain less than 75% but more than 60% of the aggregate marks. | .. | First Division. |
| (c) | Those who obtain less than 60% of the aggregate marks. | .. | Second Division. |

9. There shall be an advisory Board for the purpose of co-ordination and control :-

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|-------|---|----|------------|
| (i) | The Chairperson, Department of Indian Theatre | .. | Ex-officio |
| (ii) | The Dean, Faculty of Design & Fine Arts | .. | Ex-officio |
| (iii) | Convener, Board of Studies in Dance & Music | .. | Ex-officio |
| (iv) | One member nominated by the Vice-Chancellor | | |
| (v) | Two senior-most teachers of the Department. | | |

Rules Governing Scholarships

1. Students holding scholarships shall be required to deposit three months scholarships with the Department for purchase of make-up materials, drawing and model-making materials, text-books, scripts, etc.
2. The Advisory Board of the Department reserves the right to terminate a Scholarship at any time.

**DIPLOMA FOR ADVANCED STUDIES IN YOUTH WORK OF THE
COMMON WEALTH ASIAN REGIONAL CENTRE, CHANDIGARH**

Objectives of the Course

- (a) to help the participants to perceive, more clearly, their own role and responsibilities as youth workers;
- (b) to enable them to improve their professional competence through the acquisition of a sound knowledge base and essential problem-solving skills regarding important aspects of youth work; and
- (c) to aid them to relate themselves meaningfully with personnel engaged in the promotion of youth work and with youth themselves.

Regulations

1. The duration of Diploma Course for Advanced Studies in Youth Work shall be approximately nine months.
2. Admission to the course shall be open to graduates of a University.
3. The course shall normally spread over three terms, as follows :-
 - (i) The first term of about 15 weeks' duration, to be utilized essentially for a foundation course;
 - (ii) The second term of about 12 weeks' duration to be utilized by the participants for undertaking supervised field work in their own or some other country selected for the purpose;
 - (iii) The third term of about 10 weeks' duration to be utilized for synthesis and consolidation of the academic and practical work.
4. There shall be an evaluation of the work of each participant at the end of each term; admission to the next term shall depend upon satisfactory progress. The evaluation shall be based on the following :-
 - (i) written examination at the end of first and third terms;
 - (ii) country reports on youth work;
 - (iii) an Essay by the participant on the perception of his role and responsibilities in youth work;
 - (iv) an Essay on a selected youth problem to be submitted towards the end of the third term;
 - (v) other written assignments and performance in Seminars;
 - (vi) report on the Field work.
5. The examinations for the first and third terms shall be held on such dates as may be fixed by the Director.
6. The examination shall be held according to the syllabus prescribed by the Centre from time to time.

7. The nine papers as provided in the syllabus, the viva voce tests, the field project report, the country report on youth work, an Essay by the participant on the perception of his role and responsibilities in youth work and an Essay on a selected youth problem to be submitted towards the end of the third term shall carry a total of 60 credits as shown below :-

	Credits
Paper I	2
Paper II	4
Paper III	5
Paper IV	4
Paper V	3
Paper VI	4
Paper VII	4
Paper VIII	4
Paper IX	4
Viva-voce	4
Field Project	14
Country report on youth work	4
An Essay by the participant on the perception of his role and responsibilities in youth work	2
An Essay on a selected youth problem to be submitted towards the end of the third term.	2
Total	60

The credits attached to papers I to IX shall be awarded on the basis of term examination (50% i.e. a total of 17 credits for the nine papers) and other written assignments and performance in Seminars (50%).

8. Grading shall be done on the following basis :-

A	85% and above
B	70% - 84%
C	55% - 69%
D	40% - 54%
E	Below 40%

Note :-It will be necessary for the participant to obtain at least 40% marks in the aggregate for all the work in the entire course to be eligible for the Diploma.

9. Each successful candidate shall be awarded the Diploma for Advanced Studies in Youth Work by the Centre, accredited by the Panjab University.

DEPARTMENT OF CORRESPONDENCE STUDIES

1.1. There shall be a Panjab University Department of Correspondence Studies at Chandigarh. Instruction shall be provided by post for such examinations and in such subjects as the Syndicate may, from time to time, decide.

1.2. Admission to the Department of Correspondence Studies shall be open to any Indian National who resides in any part of India, temporarily stays in a foreign country and who satisfies the admission requirements. The Syndicate may also permit a person residing in another country to take admission in this Department taking into account the coordinative guidelines of the University Grants Commission.

1.3. A person desirous of receiving instruction through this Department shall get himself/herself enrolled with it and shall pay the fees as prescribed from time to time.

- 1.4.** (i) If an applicant is not enrolled because he/she has not paid full or part of his/her fee by the prescribed date, the amount paid by him/her, if any, shall not be refunded.
- (ii) If an applicant is not enrolled because he has not submitted the required certificates by last date fixed for the purpose or submits bogus or forged documents, his fee shall not be refunded.
- (iii) If a student drops out in the middle of the course, the fees paid by him, shall not be refunded.
- (iv) If an applicant is not enrolled because he is found ineligible the fee paid by him shall be refunded after a deduction of 25 per cent of the fee paid by him.
- (v) Wherever refund is permissible, the application must be made within three months of the date of issue of the letter by this Department in this behalf, failing which the request will not be entertained.

2.1. A student enrolled with the Department of Correspondence Studies shall be required to submit to the Chairman/Chairperson—

- (a) such forms, documents and certificates as may be prescribed; and
- (b) answers of at least 20% of assignments/response sheets sent to him by such dates as may be fixed by the Chairman/Chairperson. If he/she fails to submit his/her assignment/response sheets, he/she shall not be eligible to appear in the examination.

2.2. He/she shall submit to the Chairman/Chairperson, Department of Correspondence Studies his/her application form for admission to the respective University examination along with examination fee as may be prescribed from time to time.

2.3. The last date for receipt of admission form and fee with and without late fee as fixed by the Syndicate from time to time shall be notified by the Controller of Examinations.

2.4. A candidate's admission form and fee may be accepted after the last date i.e. (i) up to 10 days, (ii) up to December 31 of the preceding year and (iii) up to January 31 with a late fee shall be as prescribed by the Syndicate from time to time.

3.1. All the regulations and syllabi and courses of reading prescribed for the examination for regular students of affiliated colleges/teaching Departments of Panjab University shall be applicable to students of the Department of Correspondence Studies with the exception of—

- (a) attendance requirement;
- (b) requirement of qualifying the college house examination.

3.2. In the case of B.Com. examination, the marks for internal assessment shall not be reserved and the marks obtained by a student in each paper, shall be increased proportionately.

4. A student registered with the Department of Correspondence Studies who is certified by the Chairman/Chairpersons to have completed the requirements prescribed for a course may be allowed to appear in the examination as a student of this Department. Every student will appear for the examination at the centre fixed by the University.

5. A student on the rolls of the Department of Correspondence Studies who fails to appear or having appeared fails in the concerned University examination may be allowed to continue his/her enrolment for a period of one year in case of B.Com. examinations, two years in case of diploma examinations and three years in case of other examinations immediately succeeding the year in which he/she completed the requirements of Regulation 4, on payment of a fee as prescribed by the Syndicate every year, and to appear in the University examination as an ex-student of the Department of Correspondence Studies.

Provided that a student on the rolls of the Department of Correspondence Studies, who appears in the M.A. (Semester System) Examination and is eligible to repeat a course(s) may be allowed to continue his/her enrolment till the completion of the M.A. course on payment of a fee as prescribed by the Syndicate to the Department every time when he/she applies for admission to the examination in the course/s as an ex-student.

6. Such foreign students who had already passed B.A./B.Com. Part-I or II or M.A. Part I Examination from this University as students of the Department of Correspondence Studies, shall be allowed to complete the remaining parts of these integrated courses through the Department even while staying in their respective countries, subject to the number of chances available in the respective examinations as provided in the Regulations.

**MASTER OF PHILOSOPHY IN SOCIAL SCIENCES TO BE AWARDED TO THE
SUCCESSFUL PARTICIPANTS OF THE ADVANCED PROFESSIONAL PROGRAMME IN
PUBLIC ADMINISTRATION (APPPA)**

(To take effect from the admissions made in 1983)

1. A candidate for the degree of Master of Philosophy in Social Sciences should have obtained a Master's degree from the Panjab University or an equivalent degree from another University which has been recognized as equivalent thereto by this University with first or second division (50% marks).

2.1. The duration of the course shall be two semesters/one academic year. If a candidate, however, has passed the first semester examination is unable to complete his course within one year, he shall be permitted to complete it within a period of two years of his admission to the course.

2.2. M.Phil. course shall consist of dissertation/project report and other prescribed courses as determined for the instructional course for Advanced Professional Programme in Public Administration (APPPA) conducted by the I.I.P.A. The total credit for the M.Phil. programme of study shall be 24 or its equivalent out of which 25 per cent are to be allocated to the dissertation/course work.

2.3. The Board of Control for outlining the above programme shall be constituted by the Vice-Chancellor which may consist of the following :-

1. Director of the Institute.
2. 2 members of the Faculty directing the course.
3. 2 senior members of the faculty of I.I.P.A.
4. 2 senior members of the faculty from Social Sciences of Panjab University.
5. General Coordinator nominee of the Vice-Chancellor.

2.4. The Board of Control shall formulate the courses and specify the methods of study/research subject to the approval of the Joint Research Board. The examination for the M.Phil. in Social Sciences at the I.I.P.A. shall be conducted by a Board of Examiners appointed by the Institute. The Panjab University shall also have a senior member of the Social Sciences faculty nominated by the Vice-Chancellor on the Board of Examiners for the general conduct of examination, viva-voce of dissertation with a view to providing necessary co-ordination. As and when the Vice-Chancellor considers it necessary, he may nominate more external/internal examiners to the Board of Examiners.

3. A participant who wishes to be enrolled as a candidate for M.Phil. programme of study, shall apply to the Director, Indian Institute of Public Administration, New Delhi, on the prescribed form who shall forward it to the Registrar within a month of the commencement of the course, for necessary official formalities.

4. The title of the dissertation approved by the Board of Control as also the appointment of the Supervisor shall be reported to the Joint Research Board.

5. A candidate may apply to the Board of Control through the Supervisor for permission to modify the title of his dissertation within a period of two months from the date of its approval.

6. A candidate who is unable to complete his dissertation within two semesters/one academic years may apply through the Supervisor concerned for grant of extension. Such extension may be granted by the Board of Control up to a maximum of one year but not more than six months at a time. However, it would not be necessary for the candidate to spend the period of extension in the Institute.

7. On completion of the dissertation, the candidate shall submit three printed typewritten copies of his dissertation along with the summary and a fee as prescribed by the Syndicate from time to time.

8. A candidate shall be permitted to submit his dissertation for the M.Phil. degree if his Supervisor certifies that the dissertation presented is worthy of consideration for the award of M.Phil. degree. If a candidate fails to qualify in the prescribed course/courses but obtains pass marks in the dissertation, the marks obtained in the dissertation shall be carried forward, if the candidate so desires, without fresh assessment of the dissertation.

9. A candidate may incorporate in his dissertation the contents of any work which may have been published by him on the subject and shall inform the Supervisor if he has done so. But he shall not submit his dissertation or any work for which a degree has already been conferred on him or any other person by this or any other University.

10. A candidate for the M.Phil. Degree shall be free to publish his work after the declaration of the result.

11. The dissertation shall be evaluated by two examiners (i) external examiner to be appointed by the Vice-Chancellor on the recommendation of the Board of Control and (ii) Supervisor concerned. The external examiner shall state in his report—

- (a) whether the dissertation be (i) accepted (ii) resubmitted after revision (iii) rejected.
- (b) in case there is a difference of opinion between the two examiners in regard to the dissertation, the Vice-Chancellor may refer the dissertation to another examiner to be appointed by him, whose decision shall be final.

12. In case a dissertation is accepted by both the examiners (external and supervisor) the candidate shall have to defend it before a Board of Examiners, consisting of (i) external examiner (who evaluated his dissertation) (ii) Director, I.I.P.A. (iii) Supervisor concerned. In case the external examiner is unable to conduct the viva voce examination, the appointment of a substitute will be made by the Vice-Chancellor on the recommendation of the Director. The Board of examiners shall finalize the assessment of the dissertation in terms of numerical marks. It shall also submit a general report on the dissertation.

In case a candidate is required to revise his dissertation, he shall submit it within a period of six months from the date the decision is intimated to him.

13. The minimum number of marks required to pass the examination shall be-

- (a) 45 per cent in each paper;
- (b) 50 per cent in aggregate.

14. Successful candidates shall be classified as under :—

- (a) Those who obtain 70% or more of the aggregate number of marks. .. First Division with Distinction.

- (b) Those who obtain 60% or more of the aggregate number of marks but less than 70% .. First Division.
- (c) Those who obtain less than 60% of the aggregate number of marks. .. Second Division

15. A candidate who has failed in the examination or having completed the courses has failed to appear in the examination, may be allowed to appear at the semester examination without attending a fresh course of lectures. For this purpose, he may be given two consecutive chances.

Provided that he clears the course/courses within a period of 2 years from the date of commencement of the M.Phil. course.

16. Subject to the provision of these Regulations and Rules, the Controller of Examinations, Panjab University shall publish the result on the receipt of the decision of the Board of Examiners.

17. The period spent by a candidate who has been awarded M.Phil. degree or an M.Phil. candidate who has been found suitable for enrolment for Ph.D. degree by the Board of Control may be allowed by the Joint Research Board to be counted towards the minimum period for Ph.D. research. Such candidates may also be eligible for proportionate exemption in regard to the minimum residence of 30/36 weeks as provided in Ph.D. regulations.

18. The Regulations in this section regarding M.Phil. in Social Sciences, shall be governed within the framework of Rules and Regulations as laid down in the Panjab University Calendars and the instructions of the Vice-Chancellor issued from time to time.

DIPLOMA COURSE IN VOCATIONAL AGRICULTURE

1.1. The duration of the course for Diploma in Vocational Agriculture shall be one academic year.

1.2. The examination for the course shall be held once a year, ordinarily in the month of April/May or on such other dates as may be fixed by the Syndicate.

1.3. The date of examination and the last date for receipt of admission form with requisite fee as fixed by the Syndicate shall be notified by the Controller of Examinations.

2. A candidate who has passed 10+2 examination conducted by the recognized Board/University/Council or an equivalent certificate recognized by the Panjab University.

3. The admission to the course shall be on the basis of an entrance test and/or other procedures laid down by the Syndicate from time to time.

4. The examination shall be held in accordance with the syllabi approved by the Faculty from time to time.

5. A person who possesses the qualifications as laid down in Regulation 2 and produces the following certificates signed by the Chief Co-ordinator/Principal concerned shall be eligible to appear in the examination :-

- (a) a good character;
- (b) of having been on the rolls of the Department concerned/College during the academic year preceding the examination;
- (c) of having attended not less than 66% of lectures delivered to the class in each theory paper and practicals separately.

6. There shall be Board of Studies in Vocational Agriculture nominated by the Syndicate. In the case of the course run in the Departments of the University, the Chief Co-ordinator and executive Co-ordinator will be appointed by the Vice-Chancellor and for the colleges, the Principal of the college will do so. The Chief Co-ordinator will be assisted by the course Co-ordinators from different departments of the University/College running the course.

7. A deficiency in the required number of lectures may be condoned on the recommendation of the Chief Co-ordinator/Principal concerned.

- (a) up to 5% by the Committee of the Co-ordinators
- (b) up to 10% by the DUI/Principal
- (c) up to 15% by the Vice-Chancellor

8. The medium of examination shall be English or Hindi or Panjabi.

9. The minimum number of marks to pass the examination shall be 40% in each written paper, practical, viva-voce and sessional.

10. The result of the candidate shall be either pass or fail only. However, in exceptional cases (e.g. on medical ground) the Board of Studies may allow re-examination in not more than one paper. The examination shall be allowed at the time of the next regular examination. No special examination will be held.

11. Successful candidates shall be classified as under :-

- (a) those who obtain 75% or more of the aggregate marks. - First division with Distinction.
- (b) those who obtain 60% or more but less than 75% of the aggregate marks. - First Division
- (c) those who obtain 50% or more but less than 60% of the aggregate marks. - Second Division
- (d) those who obtain less than 50% but not less than 40% of the aggregate marks. - Third Division

12. The Controller of Examinations shall publish the result of the examination four weeks after the termination of the examination or as soon as possible.

13. Each successful candidate shall be granted a Diploma showing the division in which he has passed together with the marks obtained by him and the aggregate marks.

MASTER OF SCIENCE (ANATOMY)

1. The duration of the course leading to the Degree of Master of Science (Anatomy) shall two academic years. Each year shall be divided into two parts. The examination for Part I (2nd Semester) and Part II (4th Semester) shall ordinarily be held in the month of May/June.

2. The last date for receipt of admission form and fee with and without late fee as fixed by the Syndicate shall be notified by the Controller of Examinations.

3. The supplementary examination shall be held in the month of November/December.

4. The examination for Part I shall be open to a candidate who produces the following certificate signed by the Head of the Department :-

Of having attended not less than :-

(a) 80 per cent of the full course of lectures delivered to this class in each of the prescribed papers (the course to be counted up to one month before the date of commencement of the examination); and

(b) 80 per cent of the periods assigned to each practical prescribed in the syllabus.

5. The medium of the examination shall be English and the examination shall be held according to the syllabus as approved by the Faculty concerned.

6. The internal assessment shall be 10 per cent of the total marks and out of which 50 per cent will be counted towards practical and 50 per cent towards theory in both Part I and Part II examinations.

7.1. One or more research papers published by the candidate in a Journal of repute may also be submitted in lieu of thesis.

A candidate who has already submitted and passed in the thesis submitted for M.Sc./Ph.D. Anthropology/Zoology/Human Biology may be exempted for submitting a fresh thesis.

7.2. The thesis/published paper(s) will be evaluated as accepted or rejected. No marks will be awarded for it.

8. The minimum pass marks will be 50 per cent in Part I and 50 per cent in Part II. In addition, thesis/published paper(s) should also have been accepted for passing Part II examination.

9. A candidate who has failed in Part II of the examination is not required to submit the thesis again.

10. A candidate who fails in the examination (Part I or Part II) after having completed the prescribed course, or fails to appear in the examination, shall have to attend the prescribed course again in the University before he is allowed to appear in the supplementary examination. He will not be allowed to appear as a private candidate. If a candidate for Part I examination does not pass within three years of his admission to the course, he will not be allowed to continue his studies for the M.Sc. examination in Anatomy.

11. The Controller of Examinations shall publish the result as soon as possible after the examination.

12. Successful candidates shall be classified as under :-

(a) Those who obtain 75 per cent or more of the aggregate number of marks in Part I and Part II examination together. : First Division with Honours

- (b) Those who obtain 60 per cent or more but less than 75% of the aggregate number of marks : First Division
- (c) Those who obtain 50% or more but less than 60% of the aggregate : Second Division

13. The examination for Part I shall be open to any student who produces the following certificates signed by the Head of the Department :-

- (a) of having passed B.Sc. (Anatomy, Physiology and Biochemistry) with at least 50% marks from a recognized University (or any other examination recognized by the University as equivalent thereto) or of having passed the M.Sc. examination in Physical Anthropology/Zoology/Human Biology with at least 50% marks from a recognized University.
 - (b) of having attended not less than (a) 80 per cent of the full course of lectures delivered to his class in each of the prescribed papers (the course to be counted up to one month before the date of commencement of the examination); and (b) 80 per cent of the periods assigned to each practical prescribed in the syllabus.
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POSTGRADUATE DIPLOMA IN REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEM

1.1. The duration of the course for Postgraduate Diploma Course in Remote sensing and Geographic Information Systems shall be of two semester/one academics year.

1.2 The eligibility for admission to the course shall be as follows :-

- (a) Master's degrees in Geography or Master's degree in allied subjects (to be decided by the Board of Studies) or Bachelor of Engineering degree in any field(to be decided by the Board of Studies) of the Panjab University with at least 50 per cent marks.
- (b) Working knowledge of Computer.
- (c) An examination of another University recognized by the Syndicate as equivalent to (a) above.

2.1. A candidate shall be eligible for appearing in the examination if he/she has attended at least 75 per cent of the lectures delivered to the class in theory, practical and project work separately.

2.2. A deficiency in the required number of lectures may be condoned as given below :-

- (a) up to 10% by the Board of Control in Geography;
- (b) up to 15% by the Dean of University Instruction on the recommendation of the Board of Control in Geography.

2.3. The tuition fee, examination fee and other charges to be paid by the candidates of different categories shall be prescribed by the Syndicate from time to time.

2.4. The medium of examination shall be English.

3.1. The Examination shall be held in accordance with the prescribed syllabus.

3.2. The minimum marks required to pass the examination shall be 45% in every (i) theory paper, (ii) practicals and (iii) project report and 50% in aggregate.

3.3. The examination for the first semester shall be held ordinarily in November/December and for the Second Semester in May/June next year. The work on the project report will run concurrently during the two semesters.

3.4. A candidate who fails in a particular semester shall be allowed to reappear in the subsequent semester, with a maximum of two consecutive chances for each semester.

3.5. A candidate who fails in one or more theory and/or practicals shall be allowed to reappear in the subsequent two consecutive examination/s in the respective theory and/or practicals.

4.1. Each candidate shall submit four copies of the project report on an approved topic. The report is to be submitted on or before 30th June or the last day of the academic session in reference. An extension up to a maximum of three months may be granted.

4.2. As a part of practical training and project report, participation in at least one educational tour to centres of repute in Remote Sensing and Geographic Information "Systems such as IIRS Survey of India, Wadia Institute of Himalayan Geology and Forest Research Institute, all at Dehradun; NRSA, Hyderabad; SAC Ahmedabad and ISRO, Bangalore shall be mandatory for every student. This tour shall have duration of at least one week. All decisions related to the tour shall rest with the Chairperson of the Department.

4.3. The project report is required to be sent to an external examiner, who shall be from beyond the jurisdiction of Panjab University and a non-resident of Chandigarh, for evaluation in terms of numerical marks. The examiner as mentioned above, shall be appointed by the Board of Control in consultation with the Supervisor. The marks awarded by the examiner shall be moderated and finalized after a comprehensive viva voce to be conducted by the external examiner internal examiner and the Chairperson.

4.4. A candidate who fails to score minimum pass marks in the project report shall be required to resubmit project report on a fresh topic to be assigned by the Board of Control in consultation with the concerned Supervisor. The candidate shall pay the tuition fee for the whole period till he gets through in the project report.

5.1. Successful candidates, who score 70% and more of the aggregate marks shall be placed in 'merit grade' and their position in order of merit as also the percentage of marks obtained by them shall be mentioned in the Diploma; those who score 60% or more but less than 70% of the aggregate marks shall be placed in 'very good grade' which shall be mentioned in the Diploma together with the percentage of marks obtained by the candidate; and those who score 50% or more but less than 60% of the aggregate marks shall be placed in 'good grade' which shall be mentioned in Diploma together with the percentage of marks obtained by the candidate. The title of the project report completed shall also be listed in the diploma.
