



[Approved by Academic Council in its meeting dated 08/08/2009]

**TEERTHANKER MAHAVEER UNIVERSITY,
MORADABAD**

Ordinance for

The Degree of Doctor of Philosophy

TEERTHANKER MAHAVEER UNIVERSITY

Ordinance for The Degree of Doctor of Philosophy (Ph.D.)

[Approved by Academic Council in its meeting dated 08/08/2009]

PREAMBLE

Teerthanker Mahaveer University, Moradabad offers broad-based research program leading to the award of Ph.D. degree. The research work may be characterized either by discovery of new facts or enunciation of a new theory or theories or by fresh interpretation of known facts or development of equipment making a distinct advancement in instrument technology. Promotion to productivity and creativity is the basic tenet underlying the research program. It should bear evidence of the capacity of the research scholar for critical examination, analysis and sound judgment as well as his ability to carry out independent investigation, design or development. The award of Ph.D. degree is in recognition of high academic achievements and application of knowledge to the solution of real life problems in every sphere. The University encourages research in interdisciplinary areas and provides excellent opportunities for research work in the modern era of 21st century.

APPLICABILITY : This Ordinance shall apply to the program leading to the degree of Doctor of Philosophy (Ph.D.)

I. DEFINITIONS

- (i) **“Approved College”** shall mean a college of higher learning established by the University.
- (ii) **“BOS”** shall mean the Board of Studies of the College concerned.
- (iii) **“Candidate/Applicant”** shall mean who has applied for the Ph.D. program but is not yet registered for the same.
- (iv) **“College/Institute”** shall mean an academic institution maintained or admitted by the University to its privileges and includes a College/Institute/Centre.
- (v) **“Caretaker Supervisor”** shall mean a member of the academic staff appointed to act as the supervisor of the research scholar in the absence of the original Supervisor before and/or after submission of the thesis.
- (vi) **“COE”** shall mean Controller of Examinations of the University.
- (vii) **“CRC”** shall mean a College Research Committee consisting of Director/Principal/Head of the concerned college, Head of the department (if applicable), all Professors of the concerned

college/department, two Associate Professors and one Assistant Professor by rotation in order of seniority (for one year), and the proposed supervisor(s) or the approved supervisor(s). The CRC shall also include one professor from the other concerned department in case of inter-disciplinary topic of research or candidate.

- (viii) **“Degree”** shall mean the degree of Doctor of Philosophy (Ph.D.) of the University.
- (ix) **“Co- Supervisor”** shall mean a member of the academic staff of the University/other outside staff, other than the Supervisor, and approved by the BOS on the recommendation of the CRC to guide/supervise the research work of the research scholar.
- (x) **“Minimum Submission Period”** shall mean the minimum period for which a research scholar must be registered, prior to the date of submission of the thesis.
- (xi) **“Ph.D.”** shall mean the degree of Doctor of Philosophy.
- (xii) **“RDC”** shall mean Research Degree Committee, and shall consist of the Vice-Chancellor, Director/Principal of the concerned college, Controller of Examinations, and two Professors of the University other than the Supervisor/Joint Supervisor of the candidate to be nominated by the Vice-Chancellor. The Vice Chancellor shall be the Chairman of the Committee.
- (xiii) **“Registration Period”** shall mean the length of period commencing with the date of depositing fee with the University and ending on the date of award of the Ph.D. degree, counting out any gaps as per Clause X of the Ordinance.
- (xiv) **“Research Scholar”** shall mean a person registered for the Ph.D. program and devoting adequate time for completing the requirements of this degree.
- (xv) **“Sponsored Research Scholar”** shall mean a research scholar sponsored by an organization/employer.
- (xvi) **“Supervisor”** shall mean a member of the academic staff of the University/other recognized/outside staff approved by the BOS on the recommendation of the CRC to guide/supervise the research work of the research scholar.
- (xvii) **“University”** shall mean Teerthanker Mahaveer University, Moradabad.

Note: In this Ordinance where ever ‘He’ and ‘His’ occurs, these shall mean to imply ‘he/she’ and ‘his/her’ respectively.

- II. The University shall provide facilities for studies and research leading to award of the degree of Doctor of Philosophy. The program shall be conducted at and through the colleges of the University, subject to the guidelines laid down by the Academic Council and control exercised by the concerned College Research Committee (CRC).
- III. A Research Scholar shall be required to pursue his research work or any prescribed course work at the colleges of the University/approved institution and/or industry under the guidance of approved supervisor(s). The BOS may permit a research scholar to carry out either part time or full time research work outside the University at a Research Centre approved by the University (Annexure-A). Further, the BOS may also permit the research scholar to work at his place of employment provided adequate facilities for research on the proposed topic of research are available there to the entire satisfaction of the BOS. In the absence of such facilities, the research scholar will have to pursue his research work at the University.

IV. **ADMISSION ELIGIBILITY**

A candidate possessing any one of the following qualifications shall be eligible to apply for admission to a Ph.D. program of the University.

Eligibility Criteria

- (i) A Master's degree in Engineering/Technology/Science/Architecture/Humanities/Commerce/Medicine/Dentistry/Nursing/Law/Education/Pharmacy/Management/Hotel Management of a recognized Indian University, or a degree approved by the Association of Indian Universities, or any other equivalent qualification in the relevant field to the satisfaction of the Academic Council of the University, with not less than 55 per cent marks in aggregate.
- (ii) A candidate with a Bachelor's degree in engineering/technology/any other professional discipline, with either 75 per cent or more marks in aggregate with a minimum of three years experience, or 60 per cent or more marks in aggregate with a minimum of ten years experience or 55 per cent or more marks in aggregate with a minimum of fifteen years relevant experience in recognized Institute/University/Industry/Government organization; may be considered eligible for admission on the recommendation of the CRC and approval by the BOS provided that such applicants may, in case considered, be required to qualify in the course(s) specified by the CRC/BOS.
- (iii) Candidates who have passed their final examinations of ICAI/ICWA/ICSI, and are graduates would be treated to have completed post graduate degree in commerce/management or allied discipline for the purpose of PhD registration. Such candidates with professional experience of minimum of five years, will be eligible for a relaxation of 5% in marks under eligibility conditions prescribed under clauses IV(i) and (ii) above.

- (iv) For applicants belonging to SC/ST category and/or physically handicapped applicants, a relaxation of 5 per cent in marks shall be admissible under eligibility conditions prescribed under clauses IV(i) and (ii) above.
- (v) For applicants belonging to Jain minority community also, a relaxation of 5 per cent in marks shall be admissible under eligibility conditions prescribed under clauses IV(i) and (ii) above.
- (vi) Teachers working in any University or its affiliated colleges and having a teaching/research/other relevant experience of not less than five years may be allowed a relaxation of 5 per cent marks under clause IV(i).

Provided that out of the four relaxations stipulated under clauses IV (iii) to (vi), only one relaxation is permissible for an applicant.

Reservation Policy

- (vii) National/State reservation policy as applicable to the University shall be followed while granting admission to the Ph.D. program.

V. APPLYING FOR REGISTRATION

The candidate shall apply for admission in the prescribed form available from the office of the University. The applicant shall explain his eligibility, mention the topic of his proposed research and enclose a statement/synopsis (six copies) of the work that he intends doing or may have done on the subject or topic.

Applicants who are in employment of any organization either in India or abroad will be eligible for registration as Research Scholar provided:

- (i) they fulfill qualifications and/or experience laid down in Clause IV above,
- (ii) the applicant proves to the satisfaction of the CRC/BOS that his employment duties will permit him to devote sufficient time for research work and prescribed course, if any;
- (iii) the application for admission is endorsed by the Head of applicant's employing organization, and
- (iv) if the applicant has been serving in any organization located in a country other than India then such a research scholar shall further satisfy the CRC/BOS that his stay outside the country shall not debar him/her in having warranted guidance for his/her research work from the Supervisor(s).

VI. ADMISSION EXAMINATION AND RESEARCH PLAN

Registration Process

- (a) Each candidate shall be required to take a University Research Aptitude Test (RAT) which shall be of 100 marks and will consist of two parts (Part A – objective test to judge the research aptitude and Part B – descriptive test to assess subject specific knowledge). The questions would also be on logical reasoning. The RAT intends to test the basic capability of the candidate to undertake research work. A minimum score of 40 percent shall be required to clear the test and be eligible to present the research plan to the CRC. However, the candidates who have qualified

Research Aptitude Test (RAT)

Research Plan
Presentation and
Interview

UGC/SCIR(JRF) examination/SLET/Teacher fellowship holders or have passed M.Phil. shall be exempted from RAT.

- (b) On clearance of the entrance test (RAT), the candidate will make a presentation of his Research Plan before the CRC for testing the comprehension of his broad field of research, academic preparation and potential to carry out the proposed research work.
- (c) On the basis of the contents of the Research Plan and the presentation, the CRC shall either recommend the case for consideration of the concerned BOS, or, may ask the student to make a fresh presentation of the Research Plan.

Course Work

- (d) On approval of the research plan, the candidate would be required to take the following courses, during the first year of registration:
 - i)
 - (a) A course on research methodology and Computer Applications (4 Credits), contents and evaluation of which shall be decided by the concerned CRC.
 - (b) Review of literature in the area of research to be evaluated by a Jury through a seminar/presentation (4 Credits).
 - ii) In case of candidate having B. Tech. degree or a degree which is different from the faculty where candidate intends to register for research, candidate would take a basic course (4 credit) related with the faculty where research is intended to be carried out, the contents of which shall be decided by concerned CRC.
 - iii) A Ph.D. student may carryout the coursework in other departments/colleges/research institution either within or outside the University for which due credit will be given after examining him by the University.
- (e) A candidate will ordinarily be allowed only two attempts for presentation before the CRC. In case the Research Plan of a candidate is not approved within the limitations prescribed in this clause, a third attempt may be allowed only with the approval of the Vice-Chancellor on the recommendation of the CRC.
- (f) While recommending the Research Plan, the CRC will also approve the supervisor(s) of the thesis. In case, it deems fit not to approve the proposed supervisor, or any of the joint supervisors, it may advise the candidate to propose alternate name/names for consideration of the CRC. The candidate shall submit the bio-data of the supervisor(s) along with his/their photograph(s) and a consent form from the supervisor(s). The supervisor could also be from a pool to be maintained by the University from experts across the country or abroad.
- (g) A candidate on receipt of approval for registration in PhD, from the Academic Council, shall ensure completion of registration formalities including submission of prescribed registration fee within fifteen (15) days of issue of letter.
- (h) The research scholar shall be required to carry out intensive research on the topic approved by the CRS/BOS. At the end of the first year from the date of registration, the scholar shall be required to submit a Term Paper

and present the same to the CRC. At this stage the scholar will have an option to review the topic of research and if approved by the CRC/BOS, the same shall be considered final. Further change in the topic would be allowed on the recommendation of CRC/BOS only in exceptional cases and with the approval of the Vice Chancellor.

VII. REGISTRATION AS A RESEARCH SCHOLAR

- (a) After the approval of the Research Plan and the names of Supervisor(s) of a candidate by the CRC, the case shall be submitted to the BOS for its consideration and approval. The BOS would normally meet in the second week of January and July each year. If an approval is not accorded by the BOS, then such a candidate may submit his/her case for fresh approval through the CRC, after presenting a fresh/modified Research Plan.
- (b) On the approval of the BOS and/or after the candidate completes any credit required as per the recommendation of the CRC/BOS, the candidate will deposit the fees as prescribed by the University. A candidate shall be formally registered as a Research Scholar with effect from the date on which he has deposited the fee with the University.
- (c) A candidate shall be required to renew his Registration every year in the manner prescribed by paying the fees as prescribed by the University time to time.

VIII. THESIS SUPERVISORS

- (a) Each candidate shall have a supervisor, duly approved by the University, as provided in this clause. A candidate may also have one co-supervisor, if necessary.
- (b) The following persons may act as supervisors/co-supervisors:
 - i) Any regular teacher of the University (Assistant Professor/Associate Professor/Professor) who holds a Ph.D. degree and has a teaching/research/industrial experience of not less than three years in supervisory capacity shall be eligible to be a supervisor or a co-supervisor.
 - ii) A recognized teacher from the University Teaching Departments with a Ph.D. degree and experience of teaching/research of less than 3 years in supervisory capacity will be eligible to become a co-supervisor. A person from the industry with a minimum of 15 years experience with Post graduate degree and 20 years of experience with graduate degree can also become a co-supervisor, subject to his research/work experience being approved by the BOS on the recommendation of the CRC.
 - iii) A recognized teacher working in reputed teaching/research institution in India or abroad who holds a Ph.D. degree with a teaching experience of not less than five years and has an established record of independent research; shall be eligible for the appointment either as a supervisor or a co-supervisor. Any other person from approved

Research Centre/Public Sector Undertaking/Advance Study Centre/Other reputed established industry or institutions conducting research programs shall also be eligible to be appointed either as a Supervisor or a Co-supervisor provided he/she holds a Ph. D degree and has established record of research evidenced through publications in standard refereed journals.

Number of Research Scholars under a Supervisor

- iv) The BOS, on the recommendation of the CRC, shall consider the names of the Supervisor/co-supervisor, and if it approves of the same, these shall be appointed after obtaining approval of the Vice Chancellor. If the names proposed by the applicant are not approved, the candidate may be asked to suggest other names, or, in exceptional circumstances assigned by the Director/Principal/Head of the College, with the concurrence of the candidate and the supervisor (if any), and approval of the Vice Chancellor.
- v) At any given time, the faculty of the Teerthanker Mahaveer University shall not have more than eight research scholars in case of a Professor, six research scholars in case of an Associate Professor and not more than four research scholars in case of an Assistant Professor. The numbers shall be three (3), two (2) and one (1), respectively in case of the supervisor being from other university/college/industry. Joint registration (registration under more than one supervisor) shall be counted as half towards the seats allocation to the Supervisors/Co-supervisors.
- vi) A change of Supervisor shall be permitted in case of inability or non-availability of the Supervisor. The BOS, on recommendation of the CRC, shall seek approval from the Vice Chancellor for appointment of a Caretaker Supervisor.

IX. PERFORMANCE MONITORING

Monitoring System

- (a) The academic/research progress of each research scholar will be monitored by the CRC. For this purpose, each candidate shall be asked to submit a progress report at the end of each semester to his supervisor(s). On receipt of the progress report, the supervisor(s) shall arrange with the CRC for a review.
- (b) Annually, each Scholar shall be asked to have a presentation before the CRC to review the progress made.
- (c) The CRC after having considered the progress report of each research scholar shall recommend any of the following:
 - i) Continuation of registration, or
 - ii) Continuation of registration and issuance of a warning to the research scholar and making recommendation of steps necessary to improve his performance in consultation with the supervisor(s) or
 - iii) Termination of registration.

If the candidate is issued a warning letter, two times, the minimum registration period for allowing a candidate to submit the thesis shall be increased by one semester every time a warning has been issued.

X. MINIMUM AND MAXIMUM REGISTRATION PERIOD

- (a) The minimum period of Registration after which a research scholar can submit his thesis shall be two years from the date of registration. The period can be further increased as provided in clause X(B).
- (b) A research scholar shall normally be allowed to submit his thesis within a maximum period of five (5) years. However, in exceptional cases, this limit may be extended by the Vice-Chancellor by a maximum period of one year.

XI. PRE-THESIS SUBMISSION PRESENTATION

Pre-Ph.D. Submission
Presentation

- (a) A pre-thesis submission presentation by the research scholars before the CRC is an essential requirement. On completion of the research work, the research scholar shall submit eight copies of the Summary of his research work including bibliography to the CRC through his supervisor(s) and make a presentation at which faculty members and other research scholars/students may be present.
- (b) The research scholar shall be required to submit his thesis within three months from the date of pre-thesis submission presentation by the research scholars. However, in case a candidate fails to submit his thesis within the stipulated time and has suitable justification for the same, the Director/Principal/Head of the College may, on recommendations of the CRC, grant an extension of not more than three months, i.e., the research scholar may be allowed to submit his thesis within a period not exceeding six months from the date of pre-thesis submission presentation.
- (c) The research scholar will be required to submit a certificate from his supervisor(s) in the prescribed format countersigned by the Director/Principal/Head of the College that the work embodied in the thesis entitled “_____” is original and has been carried out by the research scholar and that it has not been submitted in full or in part for any other diploma or degree of this or any other University.

XII. APPOINTMENT OF EXAMINERS

- (a)
 - i) A panel of at least six experts in the area of research work which may include experts from outside India would be suggested by the supervisor(s) and placed before the CRC for its recommendations. The CRC may delete/add any of the name(s) proposed by the supervisor(s).
 - ii) A person from the same laboratory(ies)/institutions where the research scholar is employed, cannot be appointed as an external examiner. Further a person from a laboratory/institution/approved research

Examiners

centre to which the Supervisor and/or joint Supervisor of the research scholar belongs, cannot be appointed as an external examiner.

Examiner outside the state

- (b) On receipt of the summary of the thesis, the Director/Principal/Head of the College shall send the panel of examiners as approved by the CRC to the Controller of Examination who shall get the Board of Examination, approved from the Vice Chancellor, for the thesis. The Board shall consist of one internal examiner from amongst the supervisor(s), and two external examiners from India or abroad. However, out of the two external examiners selected, at least one shall be from outside the state of Uttar Pradesh. The examiners shall normally be chosen from the panel of examiners recommended by the CRC/Director/Principal/ Head of the College. In case one or more external examiners so appointed decline to examine the thesis, another external examiner shall be appointed out of the panel. In case the panel gets exhausted, the CRC shall recommend additional names.

XIII. THESIS SUBMISSION

- (a) The thesis shall be a piece of research work characterized either by discovery of new facts or enunciation of a new theory or theories or by fresh interpretation of known facts or development of equipment making a distinct advancement in instrument technology. It should bear evidence of the research scholar's capacity for analysis and sound judgment as well as his ability to carry out independent investigation, design or development. A thesis may be supplemented by published work, if necessary. No part of the thesis or supplementary published work shall have been submitted for the award of any other diploma or degree any where.

- (b) The thesis shall be written in English in specified format in accordance with the instructions contained in Annexure-B to this Ordinance, until otherwise required by the specific discipline. In case the thesis to be submitted is written in language other than English, the same shall be approved by the Vice Chancellor on the recommendation of the CRC/BOS.

- (c) A research scholar may submit his thesis within the time period as stipulated in clause X of this Ordinance, provided he has:

i) Completed the minimum period of registration as provided in clause X.

ii) Published minimum of two research papers in international/national referred/peer reviewed journals. However, wherever it has not been possible to do so, then this fact must be brought to the notice of the CRC along with sufficient reasons to justify as to why the thesis should be accepted in the absence of two published research paper. The justification should be acceptable to both the CRC and the Vice

Research Paper
Publication

Chancellor of the University. However, if the research paper has been accepted for publication, the same shall be treated as under publication and the CRC can approve the submission of the thesis.

- Soft Copy of the Thesis** (d) Four hard copies of the thesis and seven copies of summary of the thesis in soft binding along with one copy in CD for record shall be submitted in the College/Institution/Centre, where the Research Scholar has been registered. The same shall be forwarded to the COE for evaluation. In case a research scholar is being supervised by one or more supervisors, appropriate number of additional copies must be prepared to provide them one copy each.

XIV. EVALUATION

(a) Evaluation of Thesis

- i) Each external examiner will be requested to submit a detailed assessment report and his recommendations on a prescribed proforma to the COE within three months of the date of receiving the thesis.
- ii) In case the assessment report is not received from an external examiner within four months, the Vice-Chancellor may appoint another external examiner from the panel of examiners for evaluating the thesis.
- iii) The external examiners shall be required to state categorically whether in their individual opinion, the thesis should be:
 - (a) accepted for the award of Ph.D. degree, or
 - (b) referred to the research scholar for submission in the revised form, or
 - (c) rejected.

The external examiners shall state the reasons for recommending/resubmission/rejection of the thesis. If resubmission is recommended, the external examiners shall specifically indicate the modifications that need to be incorporated in the thesis by the research scholar.

- iv) On receipt of reports from all the external examiners the COE shall place them before the members of RDC who will pursue the reports and recommend one of the following:
 - (a) If the examiners are unanimous that the thesis be accepted for the award of the degree, the research scholar would be required to appear for oral defence.
 - (b) If the examiners are unanimous that the thesis should be rejected or that the thesis be submitted in a revised form then the result be declared accordingly or the research scholar be informed to submit the thesis in a revised form.

- (c) If there is no unanimity between examiners, an additional external expert shall be appointed as examiner to evaluate the thesis. The report of the additional external examiner, along with all the earlier reports shall be considered by the RDC and a recommendation made either to accept the thesis for the award of the degree or reject the same.
- (d) In case the research scholar is being required to submit a revised thesis, he/she will submit the same within a period of one year from the date of communication in this regard from the COE. However, in exceptional circumstances, this period may be extended by the BOS by one more year but the total revision time shall not exceed two years in any case. The revised thesis shall be sent for assessment to the original panel of external examiners. In the event of one or more original external examiners not being available, an additional external examiner may be appointed.

(b) Oral Defence

- i) A research scholar, whose thesis is recommended for acceptance in accordance with the provision of clause XIV(a)(iv)(a) on the basis of thesis evaluation, shall be required to defend his work/thesis orally before a duly constituted committee, hereinafter referred to as Oral Defence Committee (ODC) during working hours of the University at the University premises. Any deviation from this procedure should have prior permission of the Vice-Chancellor.
- ii) ODC shall consist of the Director/Principal/Head of the concerned College, the supervisor(s), and one external examiner to be appointed out of the external examiners by the Vice Chancellor. If none of the external examiners is available for the conduct of the oral defence, an alternative external examiner shall be appointed by the Vice Chancellor for this purpose only. The external examiner invited for oral defence examination shall submit his report in the prescribed proforma to the COE.
- iii) On the completion of all the stages of the examination, the COE shall put before the RDC, the report of the ODC to approve one of the following:
 - (a) that the degree of Ph.D. be awarded, or
 - (b) that the research scholar be re-examined at a later specified time in a specified manner, or
 - (c) that the degree of Ph.D. not be awarded.

In case of (a) and (b) above, the COE in consultation with Director/Principal/Head of the College shall also provide to the research scholar a list of all corrections and modifications required in the thesis,

including suggestions made by the external examiners during the thesis evaluation.

The research scholar shall incorporate all suggestions and changes as discussed in the ODC and submit the same to the CRC for review and approval for submission of the thesis after incorporating the suggestions/changes. The research scholar shall, thereafter, submit two hard-bound copies of the thesis incorporating all necessary corrections/modifications.

XV. AWARD OF THE DEGREE

(i) The Degree shall be awarded by the University provided that:

- (a) The RDC so approves,
- (b) The research scholar produces a “No Dues Certificate” in the prescribed form,
- (c) The research scholar has submitted two hard bound copies of the thesis; one for the College Library and one for the Central Library. These should incorporate all necessary corrections/modifications and have the consent of the CRC.

This letter would be issued by the college concerned on the prescribed format given in the Annexure. The date of RDC approval shall be the date of completion of the degree.

(ii) Hard bound copies and CD ROM of the Ph.D. thesis, submitted after the oral defence examination, must contain the following copyright certificate in the beginning of the thesis, on a separate page on the left side:

**©Teerthanker Mahaveer University
Moradabad – Uttar Pradesh (India).
All rights reserved**

XVI. LEAVE AND ATTENDANCE

The Research Scholar, who has joined the research programme on a full time basis, shall be entitled to avail leave as per Leave Rules/Attendance Rules formulated and amended from time to time by the University.

XVII. CANCELLATION OF REGISTRATION

The registration of a research scholar shall be cancelled after due approval of the Vice Chancellor in case of the following:

- i) If being an internal and full time research scholar, he absents himself for a continuous period of six weeks without prior intimation/sanction of leave.
- ii) If he resigns from the Ph.D. program and the resignation is duly recommended by the CRC.

- iii) If he fails to renew his registration in any year subject to the provisions contained in this Ordinance.
- iv) If his academic progress is found unsatisfactory in terms of Clause IX of this Ordinance.
- v) If he is found to be involved in an act of misconduct and/or indiscipline and termination is recommended by the College Research Committee or any other authority so authorized by the Academic Council.

XVIII. GENERAL

Notwithstanding anything contained in this Ordinance, all categories of research scholars shall be governed by the rules and procedures framed by the Academic Council on this behalf, and in force from time to time.

XIX. INTERPRETATION AND UNFORESEEN ISSUES

Notwithstanding anything stated in this Ordinance, for any unforeseen issues arising, and not covered by this Ordinance, or in the event of difference of interpretation, the Vice Chancellor may take a decision, after obtaining if necessary the opinion/advice of a Committee consisting of any or all the Director/Principal/Head of the Colleges. The decision of the Vice Chancellor shall be final and binding.

List of Universities, Laboratories and Institutions Recognized under Clause III of the Ordinance for Doctor of Philosophy (Ph.D.)

1. All the Indian Universities which are members of the Inter-University Board of India.
2. All Indian Universities member of the Association of Indian Universities.
3. All Indian Institutes of Excellence viz. IIT/IIM/NIT/IIIT Institute of Technology, Banaras Hindu University and Birla Institute of Technology & Science, Pilani.
4. All C.S.I.R. Laboratories in India.
5. All Laboratories Maintained and Run by the Department of Atomic Energy.
6. Indian Association for the Cultivation of Science, Calcutta.
7. India Institute of Sciences, Bangalore.
8. Tata Institute of Fundamental Research, Bombay,
9. All Defence Science Organisation laboratories in India.
10. Indian Institute of Public Administration, New Delhi
11. Indian School of International Studies, New Delhi
12. School of African Studies, New Delhi
13. Vishvesharanand Vedic Research Institute, Hoshiarpur.
14. Institute of Indology, Lucknow Road, New Delhi
15. Ahimsa Shodh Peeth, Lady Hardinge Road, New Delhi
16. All Research labs of the Geological Survey of India.
17. All Research Labs of the Oil & Natural Gas Commission.
18. All Research labs of the Indian Space Research Organization.
19. All Research Labs of the Electronics Commission and Department of Electronics, Govt. of India.
20. Hindustan Steel Ltd. Research Laboratories, Durgapur
21. Electronics Corporation of India Ltd. Hyderabad
 - (a) All India Institute of Medical Sciences, New Delhi.
 - (b) Pandit Bhagwat Dayal Sharma Post Graduate Institute of Medical Education, Rohtak
 - (c) Post- graduate Institute of Medical Education and Research, Chandigarh.
22. National Dairy Research Institute, Karnal.
23. India Agriculture Research Institute, Pusa, New Delhi
24. All Central & State Govt. Forensic Science laboratories.
25. Technological Institute of Textiles, Bhiwani
26. The National Council of Educational Research and Training, New Delhi.
27. The Central Institute of Indian Languages, Mysore.
28. The Indian Statistical Institute, Calcutta and other statistical Institutes in India.
29. The Institute of Economic Growth, Delhi University, Delhi
30. All Research Labs of the Indian Council of Medical Research, New Delhi
31. All Research Labs of the Zoological Survey of India.
32. National Institute of Family Planning, New Delhi.
33. All Research labs of National Institute of Marine Biology, Panaji, Goa
34. Delhi Zoological Park, New Delhi- 3
35. Forest Research Institute, Dehradun.

36. All Laboratories Maintained by the Department of Science & Technology, Govt. of India.
37. Bose Institute, Calcutta.
38. Raman Institute, Bangalore.
39. Bharat Heavy Electricals Ltd. Research and Development Laboratories, Haridwar
40. Ahmedabad Textile Industries Research Association, Ahmedabad.
41. Sri Ram Institute of Industrial Research, Delhi.
42. Bombay Textiles Institute Research Association, Bombay.
43. Southern Textiles industries Research Association, Bangalore.
44. Observations of Meteorological Department, Govt of India.
45. Survey of India, Dehradun, Uttrakhand.
46. Central Institute of English and Foreign languages, Hyderabad.
47. Institute of Criminology and Forensic Science, Govt. of India, Ministry of Home Affairs, New Delhi.
48. The Central Soil Salinity Research Institute, Karnal.
49. The Wadia Institute of Himalayan Geology, Dehradun.
50. Physical Research Laboratory, Ahmedabad.
51. Sikkim State Archives, Gangtok (Centre of Post-Graduate Research in History & Allied Subjects)
52. National Institute of Educational Planning and Administration, Aurobinodo Marg, New Delhi.
53. Sarabhai Science Community Centre, Navarang Pura, Ahmedabad.
54. Model Institute of Education & Research, Jammu.
55. Indian law Institute, New Delhi.
56. All Laboratories Maintained and run by the Indian Council of Agricultural Research.
57. Nuclear Science Centre (NSC) at J.N. University Campus, New Delhi.
58. Inter-University Centre in Astrology & Astrophysics (I.U.C.A.A. at Poona University, Pune.)
59. Indian National Scientific Documentation Centre, New Delhi.
60. Centre for Research in Rural & Industrial Development, Chandigarh.
61. Shri Kundkund Bharti Jain Research Institute, New Delhi.
62. Ranbaxy Laboratories Limited, Gurgaon- 122 601.
63. Lupin Research Park, Pune – 411 042 (MH).
64. National Archives of India. New Delhi & All State Archives.
65. Nehru Memorial Museum and Library, Teen Murti, New Delhi.
66. National Library, Calcutta.
67. Oriental Research Institute, Jodhpur.
68. Center for Advanced Study in History, Aligarh.
69. Jubilant Organosys Ltd. Noida (UP).

The above is an indicative list, other organizations can be considered subject to the approval of the Vice Chancellor on the recommendation of the CRC/ BOS.

Instructions for preparation of Ph.D. thesis

1. Thesis should be type-written on good quality A-4 size paper, on both sides, in double space with sufficient margins.
2. Suitable reproduction of Indian-ink diagrams should be used. Photographs should be suitably mounted on the same quality paper as the thesis.
3. References should be given in a style in the text consistent with a standard journal in the field.
4. Four copies of the thesis in soft binding along with one copy on CD for record must be submitted in the college concerned, from where they would be forwarded to the examination division for evaluation. In case of a research scholar being supervised by more than one supervisor, appropriate number of additional copies must be submitted.
5. The cover and inner cover page should have the following printed on it in block letters:

TITLE OF THE THESIS
BY
NAME OF THE RESEARCH SCHOLAR
UNDER THE SUPERVISION OF
Name of the Supervisor(s)

NAME OF THE COLLEGE
Submitted
in fulfillment of the requirement of the degree of Doctor of Philosophy
to the



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MORADABAD

6. After the Oral Defence examination, two copies of the thesis in maroon colour hard cover binding must be submitted. The cover should have the material indicated in the item 5 above printed on it. Besides, the following should be printed on the spine of the thesis:
 - (a) the year of publication at the top;
 - (b) the author's last name in the middle; and
 - (c) Ph.D. at the bottom.
7. The contents of the thesis should have the following format:
 - (i) Inner cover page; (ii) Certificate of the Supervisor(s); (iii) Acknowledgements; (iv) Abstract; (v) Table of Contents; (vi) List of Figures/Tables/Abbreviations (vii) Body of the thesis; (viii) Bibliography; (ix) Appendices.

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MORADABAD**

APPLICATION FORM FOR REGISTRATION IN THE Ph.D. PROGRAM

Area of research applied for :

1. Name of the Research Student/Candidate in full (In Capital letters) :
2. Address of the Research Student/ Candidate :
E-Mail
Landline Number
Mobile/Cell Number
3. Name of the Parents :
(a) Father :
(b) Mother :
4. Date of Birth :
5. Details of the Academic Qualifications & Experience, if applicable, on the basis of which admission is being sought :

a) Academic Qualifications (Attach Documentary Evidence/s)

<i>Sr. No.</i>	<i>College/ University Attended</i>	<i>Examination Passed</i>	<i>Year of Passing</i>	<i>Division</i>	<i>Percentage of Marks Secured/ CGPA</i>	<i>Major Subject/ Specialization</i>	<i>Remarks</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.							
2.							
3.							
4.							
5.							
6.							

b) Details of the Experience (Attach Documentary Evidence/s)

(i) _____

(ii) _____

(iii) _____

(Attach extra sheet/s if required)

6. Name/s of the Supervisor and Co- Supervisor, if any
(Fill it up if the same has/ have been identified and attach biodata for ready reference.)

Supervisor: Name:
Designation:
Organisation:
Address:
Phone:
Email:

Co-Supervisor: Name:
Designation:
Organisation:
Address:
Phone:
Email:

7. Recommendations of the :
Supervisor along with signature(s)

Recommendations of the Co- :
Supervisor along with signature(s)

8. Research Plan/Synopsis on the subject of research (attach six copies of the synopsis as per the indicative plan enclosed)

Proposed Topic of Research :

Place : _____
Date : _____

(Signature of the Research
Student/Candidate)

Signature of the Supervisor

Signature of the Co-supervisor

RECOMMENDATIONS OF THE CRC

- 1 (a) Recommended/Not Recommended :
for Registration for the Ph.D.
Program

*(Mention the relevant decision
alongwith the date of the CRC meeting)*

- (b) Name/s of Supervisor :

Co-supervisor (if any) :

- (c) Date by which the Research :
Plan/Synopsis is be submitted

- 2 Course work recommended if any :

- 3 Recommended/Not recommended :
for consideration by the BOS

- 4 Any other recommendation of the :
CRC

Signature of the Chairman of the CRC

RECOMMENDATIONS OF BOS

- 1 (a) The registration of Mr./Ms. _____ for the
Ph.D. program is approved by the BOS of _____
college in its meeting held on _____.

- (b) This Registration is subject to the :
fulfillment of

(Mentioned :
conditions/requirements, if any)

- (c) The Registration is not :
approved/may resubmit the case
through the CRC after necessary
modifications in the research
plan/synopsis.

Signature of the Chairman of the BOS

**NOTING BY THE UNIVERSITY'S OFFICE
(Academic Branch)**

Certificate

This is to certify that the thesis titled “.....” submitted for the award of the Doctor of Philosophy is original to the best of our knowledge. The work was carried out by under my/our guidance and has not been submitted in parts or full to this or any other University for award of any degree or diploma. All the assistance and help received during the course of study has been duly acknowledged.

(Candidate’s Signature)

1. (Signature of supervisor)

**Countersigned by
(Director/Principal of the college)**

2. (Signature of Joint Supervisor)

TEERTHANKER MAHAVEER UNIVERSITY
Ph.D. Program – 2009 – 10

Format of Ph.D. Synopsis
(Six Copies to be submitted)

Topic.....

1. Introduction
2. Problem Statement
3. Objectives of the Study
4. Hypotheses Formulation
5. Literature Review
6. Research Methodology
7. Expected Contributions of the Study

References

Note: The above format is suggestive in nature. The synopsis should normally be 15-20 pages covering all aspects of the proposed research work.