

# **UNIVERSITY OF MUMBAI**

## **Ph.D. Ordinances/Regulations for Faculty of Technology**

(To be implemented with immediate effect)

These ordinances are for the conduct of Entrance test for the admission for Ph.D. degree that is imperative as per the UGC regulation of 2009 (minimum standards and procedures for award of Ph.D. degree) and shall be effective immediately from the date of their publication. The earlier ordinances O-5473 to O-5482 stand repealed and is replaced by the following new ordinances:-

### A) Eligibility

O\_\_\_\_\_ A candidate may be eligible for admission to the Doctor of Philosophy program in a given faculty or subject, provided that any one of the following conditions are satisfied and that he/she fulfils the admission procedure as envisaged under the relevant ordinance :

1. The candidate possessing Ph.D. degree of this university or any other UGC recognized university, (having followed the guidelines given in this regard by the UGC from time to time) in the given faculty or subject and desiring to (be conferred) pursue the Ph.D. degree in another faculty of subject.
2. The candidate possessing an M.Phil. degree of this university or any other UGC recognized university desiring to seek (pursue) a Ph.D. degree in a given faculty or subject.
3. The candidate is a post graduate and has cleared a prescribed examination such as GATE/SET/NET/ (JRF) or is a fellowship or teacher fellowship holder of this university or any of the apex bodies such as CSIR/UGC/ICAR/ICMR/ICSSR/DBT/DST.
4. The candidate is a Post Graduate of recognized university working in a National Laboratory/Institute/Government or reputed private organization with minimum five year teaching or research experience. However, such candidate shall be required to appear for an aptitude test approved by the university and to be conducted by the research Centre where he/she seeks admission for Ph.D. The experience is to be certified by the head of the institution/organization
5. The candidate is a post graduate of this university or any other UGC recognized university with a minimum 55% marks (or a B grade, where graded are awarded), at his post-graduation degree and has successfully cleared the entrance test for Ph.D. (PET) conducted by the university prior to admission for the Ph.D. program in the

given faculty or subject for the candidates having passed their postgraduate degree on or after 11<sup>th</sup> July 2009. For those passed before 11<sup>th</sup> July 2009, minimum marks can be 50%.

5% relaxation in the required percentage of marks will be given to the candidates of state of Maharashtra belonging to SC/ST/DT/NT/SBC/OBC categories.

6. The candidate desiring to be conferred the Ph.D. degree in a faculty or subject other than the one in which he has obtained the Post Graduate degree of this university or any other UGC recognized university has cleared an aptitude test in the faculty or subject in which he so desires to be conferred upon the Ph.D. degree, either after or prior to successfully clearing the entrance test for Ph.D. (PET) either in the subject in which he has obtained the Post Graduate degree or the subject in which he desires to seek the Ph.D. degree.
7. The candidate being a foreign learner and possessing a degree equivalent to the post graduate degree of this university after successfully clearing the prescribed online test as approved by the University for the given faculty or subject and conducted by the respective research centre. The said research Centre shall be required to maintain the record of such online test administered for such candidate.
8. The candidate is a teacher having full time teaching experience of at least five years in Degree College.
9. The fellow members of the institute of Chartered Accountants and /or Institute of Cost and Works Accountants and /or having qualification of company Secretary shall be eligible for admission to the Ph.D. programme in the subject allocated to the board of studies concerned under faculty of commerce. Provided that such candidates possess a Bachelor's degree of any recognised university and also have at least 5 years professional experience.

(Applicants having age more than 60 years need permission from the Vice Chancellor to enrol for Ph.D.)

#### B) Entrance test

O\_\_\_\_\_ Admission for Ph.D. programme shall normally be on the basis of an entrance test (MPET/PET) to be conducted by the university, twice in a year on a date as decided and declared by controller of examination of the university in the academic year for this purpose.

The university shall decide on annual basis a predetermined and manageable number of seats for admission to the Ph.D. programme. For this purpose the concerned and

recognized research centres such as the various university departments / affiliated colleges/ research institutes shall submit to the university the seats available or vacant for admission to Ph.D. programme on or before a date prescribed for this purpose by the controller of examination of the university. The eligibility for appearing for and exemption from appearing for PET shall be subject to the ordinance O-XX1 and O-6128.

#### O \_\_\_\_\_ Structure of PET

The structure of the Ph.D. Entrance Test (PET) shall be as follows:-

1. All university departments, affiliated /autonomous colleges, departments in such colleges/institutes recognized for carrying our research leading to Ph.D. degree by the University shall be the centres for conducting PET.
2. The Principal of an affiliated college / Head of the relevant University Department / Director of the research Institute shall be the authority to conduct PET at the given centre
3. All Supervisors, Research guide/s recognized by the university shall be responsible for setting question paper/s in the given faculty/subject for PET as and when directed to do so by the University. They shall also be responsible for the evaluation of the respective answer books.
4. All research centres as per this ordinance shall provide the information in the following manner :- The Principal of an affiliated college / Head of the relevant University Department / Director of the research Institute shall
  - a) Intimate the university about the seats vacant for admission for Ph.D. at the centre prior to the declaration of the date of PET by the University.
  - b) Follow admission procedures within the period prescribed for the same by the Thesis Section of University.
  - c) Arrange for the necessary infrastructure for the purpose of conducting PET.
  - d) Arrange for assessment of answer books or submission of answer books after the PET is conducted for centralized assessment as may be directed by the university.
5. The result of PET shall be permanently valid from the date of PET result announced by the controller of examination.
6. The Ph.D. Entrance Test (PET) will consist of one paper of 100 marks for the duration of three (3) hours in the relevant subject of various faculties.

#### 6.1 Syllabus and Pattern of Question Paper

- (a) Syllabus – As may be prescribed by the university at the given time.
- (b) Pattern of Question Paper – The question paper will be of 100 marks to be completed in two hours and the paper pattern shall be
  - Section I: 15 multiple choice questions (30 marks) based on the following components

- i) Research aptitude
- ii) Logical reasoning
- iii) Reading comprehension
- iv) Language competency

Section II: 35 multiple choice questions (70 Marks) on core subject and pattern shall be similar to GATE.

6.2 Standard of Passing (PET) – Candidates securing (50%) fifty percent or more marks (45% or more for candidates from reserved category) in entrance test will be declared as successful by the controller of examination and eligible to apply for Ph.D. admission process. PET being one of the eligibility criteria for Ph.D. registration, the declaration of the candidate to be successful in PET shall not guarantee his/her registration.

#### C) Admission

O\_\_\_\_\_ Admissions to Ph.D. program shall be carried out twice in a given academic year.

O\_\_\_\_\_ Every candidate who is otherwise eligible and qualifies for admission to the Ph.D. in a given Faculty shall make an application for admission to the Principal of an affiliated college / Head of the relevant University Department / Director of the research Institute in a format prescribed for the purpose by the principal of the affiliated college/Head of the concerned University Department / Research Centre where he/she desires to seek admission.

#### D) Committee for Interview

O\_\_\_\_\_ The Head of the University Department / Research Centre/Recognised Research Institute shall constitute a committee for the conduct of interview of the candidates for Ph.D. program. The Committee for the Interview shall comprise of:-

- a) Admission at Research Centres attached to the affiliated colleges :
  - (i) Principal (Chairman)
  - (ii) Head of the concerned department
  - (iii) Two subject experts (One from the University Department / Recognized Research Centre / Affiliated College and other from the Reserved Category(except for minority institute)nominated by the principal)
  - (iv) Research guide/s of the concerned subject
- b) Admission at Recognized Research Institute :-
  - (i) Director (Chairman)
  - (ii) Dean of the concerned Faculty or nominee
  - (iii) Head of the concerned department
  - (iv) Research guide/s from the research institute

- (v) One subject expert from Reserved Category (except for minority institute) nominated by the Vice-Chancellor.

O\_\_\_\_\_ The Candidate is expected to discuss the proposed research problem during the interview. If the performance of the candidate is found satisfactory at the interview and subject to the reservation policy for admission, he/she may be granted admission to the Ph.D. program irrespective of the program the candidate has applied for.

E) Allotment of research guide

O\_\_\_\_\_ Allotment of Research Guide shall be done by the respective research centre / University Department/Recognized Research Institute on the basis of :-

1. Number of candidates per faculty member
2. The available specialization among the Research Guides
3. Research interest of the candidate as indicated by him / her during the interview
4. The allotment / allocation of Research Guide shall not ordinarily be left to the individual candidate or the Research Guide.
5. Only one foreign candidate may be allowed per Research Guide
6. Head of the University Departments / Research centre /Recognized Research Institute as the case may be shall ensure allotment of Research Guide to the candidate within a month of the date of admission for the Ph.D. Program.
7. Ph.D. guides of the University should give an undertaking that they are /are not guiding students in any other university and in case they are the recognized guide in any other university, the total number of candidates registered under him / her for Ph.D. does not exceed Eight at any point of time.
8. Once the student submit his/her synopsis to thesis section of the University, that seat is considered to be vacant and the guiding teacher can enrol new candidate in place.

F) Course work

O\_\_\_\_\_ The Course work is mandatory for Ph.D. program and shall consist of 16 (sixteen) credits divided equally into three courses.

O\_\_\_\_\_ The Research Guide shall supervise the Course work to be carried out by the candidate and shall certify as such on successful completion of the same, before submission of the topic approval synopsis for the Ph.D. work in the University by the candidate. No topic approval synopsis will be accepted without course completion certificate except in case of the candidates who have been exempted from the course work by the ordinances.

O\_\_\_\_\_ The course work shall be divided as follows :-

1. Six credits for a paper on Research Methodology that may include a part on Computer Applications in the concerned subject. The syllabus for this Paper is common for all programs in Faculty of Technology.
2. Six credits for core component course proposed by guide, which can be taken under the guide himself or herself/may attend the similar course in any premier institute such as IIT/NITTE/any Post graduate course proposed by guide at any research centre and produce the certificate stating clearly that said candidate successfully completed the course.
3. Four credits for seminar in the proposed research area involving detailed state of the literature review which will be assessed and certified by the concerned guide.

G) Registration of Candidate in University.

O\_\_\_\_\_ The candidate having being admitted to the Ph.D. program College / Institution, shall submit to the Registrar of the University his application for Registration in the prescribed format along with the prescribed fees after successful completion of course work and approval of research topic by the RRC. The applicant shall submit five hard copies of his / her research proposals per the guidelines that may be provided by the Thesis Section of the University from time to time.

O\_\_\_\_\_ RRC shall make a decision about the acceptance / modifications to / rejection of the same and communicate to the candidate and research guide accordingly.

O\_\_\_\_\_ The Date of provisional admission for the Ph.D. program shall be confirmed after the candidate registers himself/herself for the Ph.D. program and shall be valid for a period of FIVE years from the date of admission. Extension of up to a maximum of two years may be granted by the RRC provided it is satisfied about the reasons for delay and is of the opinion that the candidate has done substantial work. Further extension of one year may be granted by the Vice-Chancellor, on recommendation of the concerned Dean/Committee of Deans.

O\_\_\_\_\_ If the candidate so desires, he/she may be allowed to modify or partially change the title / contents of his/her research work on making an application for the same through his / her research guide (and co-guide if applicable). The same may be considered and accepted if found suitable, by the RRC of the given subject.

O\_\_\_\_\_ Normally a candidate shall be required to complete his/her research under the supervision of the guide allotted to him/her. However, the RRC concerned may allow change of guide on the production of a 'No Objection Certificate' from the first guide and an acceptance letter from the new guide. In case of such a change, the candidate shall work for a minimum period of one calendar year under the new guide before he/she submits the thesis. A NOC will not be required if the candidate justifies the non-availability of his/her guide. The justification will have to be endorsed by the head of the institution where the candidate has registered for research. In case of any dispute, non-availability of guide, the Vice-chancellor on recommendation of the dean of the faculty concerned will take appropriate decision.

#### **H) Progress monitoring**

R\_\_\_\_\_ All registered candidates shall be required to submit to the Head of the University Department / Principal of the College / Director of the research Institute through their research guides elaborate research progress reports every year. If the candidate fails to submit two reports consecutively, his / her registration may be treated as cancelled on recommendation of the progress monitoring committee appointed by the Head of research centre as per the proposed structure.

R\_\_\_\_\_ The proposed progress monitoring committee for each research student at Research Centres attached to the affiliated colleges shall comprise of as follows:

- (i) Chairperson of Progress monitoring committee -Principal
- (ii) Head of the concerned department
- (iii) One subject expert in the area of research, who shall be a recognised Ph.D. Guide
- (iv) Research guide/s

R\_\_\_\_\_ The Principal of the College / Director of the Institute through the Research Guide of the candidate shall submit to the University Thesis Section, a report on non-compliance of submission of progress report by the candidate for two consecutive years after which the matter would be placed before the Dean of the concerned subject by the Thesis Section. The findings of the Dean would be communicated to the Principal / Director as the case may be and the Research Guide within fifteen days of such findings by the Dean.

R\_\_\_\_\_ The candidate after confirmed registration in the University of Mumbai and having published at least two research paper out of them one should be in referred journals and second can be in international conference or on having submitted an acceptance letter of the research paper by the appropriate journals/conference, and having completed at least Two Years of research work, may be allowed to submit the synopsis of the thesis for Ph.D.

R.....In case of a dispute between the research guide/co-guide and the candidate, the committee consisting of the following members shall examine the matter and report it to the vice-chancellor whose decision shall be final.

- i) A member of the concerned BUTR appointed by Vice Chancellor, who shall be the convenor of the committee
  - ii) The member of the concerned Research and recognition committee appointed by dean
  - iii) The head of the institution through which the candidate has registered for research degree( If the complaint is against the head he/she shall not participate in the proceedings of the meeting)
- The report shall include specific recommendation and should be submitted to Vice-chancellor.

### **I) Submission of synopsis and Thesis**

O\_\_\_\_\_ The synopsis shall be in a format prescribed by the Thesis Section and shall contain introduction, chapter wise brief account of the work done and overall conclusions.

O\_\_\_\_\_ Before the submission of the thesis, the candidate shall be required to make a pre submission seminar regarding the body of his / her research work before the progress monitoring committee. The Principal / Director of the Institute shall arrange the same on request by the candidate and endorsed by the research guide. In light of the discussion during the seminar the candidate shall prepare a draft copy of his thesis and submit it to the Research Center one week prior to the presentation of seminar. The small refinement in the title of thesis shall be allowed based on the recommendation of progress monitoring committee during pre-submission presentation.

O\_\_\_\_\_ the draft Thesis may be submitted within two months of the submission of the synopsis. If the candidate fails to submit his / her draft thesis within six months of submission of the synopsis he / she may request for an extension of six months for the same, by making a written application through the Research Guide to the Principal / Director as the case may be for approval. The RRC may allow an additional extension of up to six months for the submission of draft thesis on payment of the prescribed fees for the same. Further extension may be allowed by the Vice-Chancellor on recommendation of the Dean or Deans in case of inter faculty research work.

O..... Each candidate for the degree shall submit draft thesis which shall embody the results of his/her research and state whether the work is original condition based on such result. Thesis must contain appropriate acknowledgement of others and this should be reflected in the bibliography and data sources. Further the candidate must not have submitted the work contained in thesis for award of any other degree. All of the above must be certified by a statement by the candidate that shall be countersigned by the guiding teacher.



The candidate must also forward with his/her application three copies of any original contribution or contributions to the knowledge on the subject selected by him/her independently or jointly with others upon which he/she relies in support of his candidature. The Thesis shall be printed or written in English.

J) Appointment of examiners:

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- 1) The RRC of the respective board/s shall make appointment of referees preferably by random selection from pre-existing pool of names generated for each subject with various specializations by board of studies. Research guide can also propose minimum six referees from the same research area at the time of submission of synopsis, proposed list can be referred by the RRC but it is not mandatory on the committee to recommend from the same list.
- 2) There shall be two referees of which at least one must be from outside the state of Maharashtra, if the competent authority so deems in view of nature of research. However there should be no bar on foreign referee whenever possible and if the committee feels necessary. As far as possible, care should be taken to avoid reciprocal appointment of referees vis-à-vis the guiding teacher at least for the period of five years.

K) Open defence- viva-voce

- 1) On the receipt of the report of the external referees appointed by the board of examinations, the internal referee/ guide and one of the referee shall conduct the viva-voce of the candidate. The head of the department or any senior teacher of the subject concerned, appointed by Vice -chancellor shall act as a chairperson of the viva. The external referees if so desired may send the written questions to the referees conducting the viva to seek clarifications on any points in the thesis. The viva-voce test shall be conducted only after receiving favourable reports from both the external referees.
- 2) The viva-voce of the candidate shall be conducted in the open defence manner.
  - a) The candidate shall supply to controller of examination sufficient number of copies of the synopsis and of the draft thesis as required.
  - b) After both the external referees have sent their reports recommending acceptance of the Thesis for the award of Ph.D. degree, the date for open defence shall be fixed in consultation with one of the external referees who is residing in close proximity to the university and the internal referee/guide. At least two week notice will be

given to the student the schedule of the viva. The open defence will be conducted in following manner:

- i) The date of defence, place/venue along with the synopsis shall be put up on the website/noticeboard of the university at least one week before the date of open defence.
- ii) The schedule and synopsis is also to be sent to different subject experts suggested by guide and the head of the department from where the candidate is registered for Ph.D. The Head of the department should put the same on notice board.
- iii) The questions in writing to be asked in the open defence should be received at least three days prior to the date of open defence. Such questions should be handed over to the chairperson of the open defence committee on the date of the open defence.
- iv) One of the external referee and the guide will be present at the open defence. Any other members of faculty, research students and interested students may also attend the open defence. The external referee and the guide will ask the questions for which no permission of the chairperson is needed. For other questions received, and the questions the audience want to ask, the chairperson in consultation with the external referee and guide will decide whether to allow them or not. No person in audience will have right to comment on acceptability or non-acceptability of the thesis for award of the degree.
- v) At the initiation of open defence, the candidate will make a brief presentation which will be followed by questions and answers.
- vi) The internal referee and guide shall prepare a report of the open defence and forward it to the controller of examinations. Their recommendations shall be specific and final. They shall either recommend the award of the degree to the candidate or a fresh defence after the specific time, if the performance of the candidate found unsatisfactory. The following procedure may be followed for holding the viva second time.
  - i) Re-examination of the candidate (Second viva) should be conducted as far as possible, by the same referee who had conducted the viva at the first instance.
  - ii) The decision that, although the thesis was found worthy of acceptance, the candidate's performance at the viva-voce was found unsatisfactory and, therefore, he/she is required to appear again at a second viva within six months and that if he/she fails to satisfy the referees at the second viva, his/her thesis shall be rejected, will be communicated to the candidate by registered post

- (A.D.) within one month on the receipt of the viva report from the referees.
- iii) Within two months of the receipt of the communication of the decision to the candidate, the candidate should write to the university through his/her guide that he/she is prepared to appear again before the referees/ or his/her second viva-voce examination.
  - iv) The candidate should submit his/her application through the guide and should pay 50% of the examination fee towards the conduct of second viva-voce examination.
  - v) The honorarium prescribed by the university shall be paid to the external referee for holding the second viva-voce examination. The internal referee will also be entitled to honorarium.
  - vi) The thesis of the candidate should be retained by the office till the candidate's reappearance at the second viva-voce examination and the declaration of his/her result.
  - vii) The referees should hold the viva-voce examination within generally, one month of the receipt of the communication in the matter.
- a) When opinion of the two external referees is unanimous and on successfully completing the viva-voce, the candidate shall submit to the university the final copy of the thesis after incorporating the changes and updating the data, if suggested by referees (the guiding teacher will so certify). The three copies in hard bound form of final approved thesis shall be submitted on CD, in addition to a hard copy. Subsequent to the acceptance of the report by the vice-chancellor, the university shall make the thesis available on the university website for a period of three years from the date of acceptance. After receiving final approved thesis copy, the concerned section of University can issue provisional certificate stating he/she has been successfully defended the thesis and awarded Ph.D. degree. The date of open defence shall be considered as successful completion of degree.
  - b) However, if only one referee of the two external referees favourably recommends the acceptance of the thesis for award of Ph. D. degree, the controller of examinations shall appoint one additional referee to evaluate the thesis from the list of referees approved by Board of Examination. The board of examinations shall accept or reject the thesis in accordance with the majority opinion of the three external referees.
  - c) If both the external referees submit a negative report indicating rejection of the thesis, the candidate's viva-voce shall not be conducted and he/she shall be declared failed to qualify for the Ph.D. degree.

O\_\_\_\_5482 a work that has been rejected may be submitted after revision two years of the receipt of the rejection letter and subject to the payment of half the original examination fees (Synopsis fee).

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## **Draft Rules for conducting ONLINE Ph.D. Entrance Test (PET) for admission to M.Phil /Ph.D.**

WHEREAS , it is expedient to frame the rules on governing procedure of conduct of ONLINE Ph.D. Entrance Test (PET) for admission to Degree of Doctor of Philosophy to be conducted centrally by the University of Mumbai and agency designated by University of Mumbai

The following rules are being brought into force as per the provision of Maharashtra Universities Act, 1994.

1) These rules may be called “Rules for conducting ONLINE Ph.D. PET for admission to Degree of Doctor of Philosophy and M.Phil

2) These rules shall be applicable to the candidate appearing for PET.

3) These rules shall come into force with immediate effect and shall be applicable from the session 2015-2016

### **4) DEFINATION :**

(i) “University” means University of Mumbai, Mumbai.

(ii) “PET” means M.Phil/Ph.D. Entrance Test to be conducted centrally by University of Mumbai and the agency designated by University of Mumbai.

(iii) “Designated Agency” means the agency appointed byUniversity of Mumbai for conduct of PET.

(iv) “Candidate” means student appearing for PET.

(v) “Committee” means the committee constituted by the Hon’ble Vice-Chancellor for the purpose of conducting ONLINE PET for the admission to Ph.D. Degree from time to time.

(vi) "Question Bank Committee" means a Committee of experts for the preparation of Question Bank" recommended by BOE and approved by the Hon'ble Vice-Chancellor.

5) The PET shall be conducted by the University twice in the calendar year. The dates of examination shall be decided by the University.

6) The University shall be the authority for calling the application forms from the candidates desirous to appear for ONLINE PET for Admission to Ph.D. Degree.

7) All the application forms shall be filled only ONLINE on the website of Designated Agency and print outs of the forms along with certificates and prescribed fee in the form of Demand

Draft drawn in favour of Registrar, University of Mumbai, payable at Mumbai shall be received in the office of the Designated Agency. These forms shall be scrutinized by Designated Agency and statement shall be prepared showing all the particulars of the applicants. Designated Agency shall publish the list of all eligible candidates of Ph.D. Test along with examination seat Numbers.

8) Designated Agency shall generate seat Numbers and Admission Cards of the Candidates.

9) Designated Agency shall provide only ONLINE admission cards to all candidates within the prescribed period. The admit cards should bear the photograph and full signature of the candidate.

10) Designated Agency shall make the questions available ONLINE at random from the question bank to the candidates at the PET Centre.

11) The examination shall consist of one section-I of 90 minutes duration based on General Research Aptitude Carrying 50 Marks containing 50 multiple Choice Question based on Analytical Reasoning, Numerical Ability and Language Competency/ Computer/ Environment/ Logical Reasoning and Data Interpretation i.e. General Research Aptitude or equivalent standards as per UGC guidelines for Ph.D. and section-II of 90 minutes duration based on core subject offered having 50 questions of multiple choice with 50 marks weightage.

12) The question bank committee shall submit minimum 10 times more question of the question paper (Analytical Reasoning, Numerical Ability and language Competency/ Computer)/ Environment/ Logical Reasoning and Data Interpretation i.e. General Research Aptitude, core subject topics etc.) for the development of Question Bank. The Question Bank shall be submitted to Designated Agency for ONLINE Test after Moderation by the Committee constituted for the purpose.

13) The Entrance Test shall be ONLINE and shall be conducted at the examination centres

proposed by PET Committee and approved by the Hon'ble Vice-Chancellor. If required the ONLINE examination shall be taken in batches as per the schedule prescribed by the University.

14) PET Examination committee shall make available sufficient computers with networking and Internet facility for ONLINE Examination.

15) Controller of Examinations shall submit a list of Supervisors for approval of the Hon'ble Vice-Chancellor.

16) The Supervisors shall supervise the smooth conduct of Examination. There shall be one supervisor for every batch of 25 students or part thereof. CCTV or camera shots may be used during the examination in order to have more transparency in the conduct of the examination. However no video recording of the question paper/answers should be done, it should be restricted to only record the face of the candidate appearing for the examination.

17) The valuation shall be done by software developed by the Designated Agency.

18) The valuation of answer shall not be made by negative marking system.

19) The candidate shall be declared successful if he/she secures minimum 50% of marks in the PET. (Relaxation of 5% being admissible to the candidates belonging to Backward Categories)

20) PET being one of the eligibility criteria for Ph.D. registration, the declaration of the candidate to be successful in PET shall not guarantee his/her registration.

21) The PET shall be based upon multiple choice questions and shall be only in English medium.

22) Chairman and other Committee members of PET Examination Committee and other required ministerial staff shall be paid remuneration as may be decided by the University from time to time.

23) The list of marks duly certified by Designated Agency, in sealed envelope shall be submitted to Chairman, PET Examination Committee/controller of examinations.

24) No person other than the examinees, supervisors, members of the PET Examination Committee and a person authorized in that behalf by the Chairman, PET Examination Committee shall be permitted to enter the examination centre(s).

25) The candidate shall be required to pay examination fee of Rs. -----/- ( for candidates belonging to Reserved Categories recognised in the State of Maharashtra Rs. -----) along with the application form by Demand Draft drawn in favour of Registrar, University of Mumbai.

26) In case of any grievance of any candidate with respect to the conduct of PET. The PET Examination Committee shall be the competent authority to decide the dispute.



**AC 26/02/2015**  
**Resolution of Item 4.73**

It was resolved that the recommendations made by the Faculty of Arts at its meeting held on 20<sup>th</sup> February, 2015 and Faculty of Science at its meeting held on 21<sup>st</sup> February, 2015 & Faculty of Commerce at its meeting held on 23<sup>rd</sup> February, 2015 be accepted and in accordance therewith an Equivalence Committee for purpose of Appointment Promotions, Career advancement etc., of Teaching Staff in University of Mumbai and its affiliated colleges be constituted as follows :-

**Equivalence Committee for purpose of Appointment, Promotions, Career advancement etc., including Ph.D in interdisciplinary subject of Teaching Staff in departments of University of Mumbai and its affiliated colleges.**

Following will be the members of the committee :-

- 1) Dean of the concerned faculty (in which the equivalence is sought) will be Chairman of Equivalence committee.  
Provided that, if there is no Dean, anyone senior member of the Faculty, appointed by the Registrar shall officiate as Chairman of the committee.
- 2) Chairman of Board of Studies of the subject in which the equivalence is sought will be member of the committee.  
Provided that, if there is no Chairman of the concerned Board of Studies, any senior member of that concerned Board of Studies, appointed by the Dean will be the member of the committee.
- 3) In case of University Department/s candidates, the Head of University Dept of that subject in which equivalence is sought, will be the member of the committee. (If the candidate is head himself, he cannot be the member of the committee.)
- 4) Any two subject experts, appointed by the Dean, will be the members of the committee (in case if the candidate is from reserved category, one subject expert should be from reserved category).
- 5) Deputy Registrar of Concol Section or in his/her absence, the Assistant Registrar of Concol Section will be the secretary of the committee (in case if the candidate is from University Department, then Deputy Registrar of TAU or in his/her absence the Assistant Registrar of TAU will be the secretary of the committee).
- 6) Quorum of the meeting should be minimum three.
- 7) The Committee will function as per the norms of the University.
- 8) The decision of the committee will be final.

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**PROPOSAL**

**Conduction online PET Examination**

The BOS of Chemistry to facilitate the assessment work & declaration of result has taken a decision of the decentralization of assessment of T.Y.B.Sc Chemistry answer books. The modus operandi be as follow :-

Mumbai University conduct PET examination twice in year, A conduction of PET examination, declaration of result on time is a very difficult task. The response of students, passing percentage of the PET has created some problems. To avoid such problems and to facilitate student to opt for PET examination I hereby suggest conducting such examination online with the tie-up of companies like MKCL. The proposal is given as below :-

- PET examination will be conducted online having MCQ's only
- The result will be declared immediately after completion of examination
- For this MOU can sign between Mumbai University and IT companies and declaration and issuance of mark list on behalf of MOU.
- Candidates can appear at various locations across the state / across the India within declared dates online.
- Registration payment of fees, test centre declaration of registration can be done by associate partner this is IT company.
- A certified copy of mark list can be used for Ph.D admission.
- PET examination should be conducted thrice a year that is after four month each. Candidate can appear any number of times for PET examination.
- A question bank of MCQ's can be create initially having minimum 5000 MCQ's by appointing a paper setter for PET examination which will monitor whole process and a set questions this is MCQ's for PET examination.
- A central monitoring committee can be nominated by honorable Vice-Chancellor. His regard which will monitor will PET examination.

Advantages of Online PET examination :-

- This process is simple, quick and student friendly
- Student will be get minimum chances to appear for PET as and when students desires and the centre place of his choice.
- The result will declare immediately.
- Cost effective
- Save papers and the burden of University of Mumbai decreases

I sincerely request you to consider this proposal and if you wish I can put-up detailed proposal and can help to conduct / monitor PET examination of MOU.