

Think Ph.D. Join JJTU

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# SHRI JAGDISHPRASAD JHABARMAL TIBREWALA UNIVERSITY

(UGC Recognized University)

Established As per Act No. F.2(5)Vidhi/2/2009 of 05.02.2009 of Govt. of Rajasthan



## Ph.D. GUIDELINES

(w.e.f. November 7, 2022)

*Think Ph.D.*

*Join JJTU*



एक कदम स्वच्छता की ओर

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### ABOUT JJT UNIVERSITY

#### **Vision**

To Provide Value Based Quality Higher Education & Research for Self-Reliance.

#### **Mission**

Transformation of society by establishing quality based educational Institutions with a strong base in Indian values for sustainable exploitation of natural resources through development of human resources.

To provide advance knowledge and educate scholars including the underprivileged in science, technology and other areas that will best serve the nation and mankind in the 21<sup>st</sup> century. Thus we believe will enable us to build up a society on equality and democratic values.

#### **Location**

The University is situated at Vidyanagari, Chudela, Jhunjhunu- Churu Road, Dist., Jhunjhunu, Rajasthan 333010. It is easily accessible by rail, road, and air. It is 200 kms from Jaipur, 250 kms from Delhi 60kms from BITS Pilani and 35kms from Churu.

### **WHY SHRI JAGDISHPRADAD JHABARMAL TIBREWALA UNIVERSITY FOR PURSUING Ph.D.?**

1. The University follows all rules, regulations as laid by the regulating bodies for research work.
2. The University has built a well-organized infrastructure for research program.
3. The University's founder members and trustees are a group of experienced industrialists so that and scholars are getting the practical and applied research facilities in the various industrial laboratories.
4. The University provides online facilities for the scholar through proper guidelines for research from primary stage to the end of research work. (Is it required to be included)
5. University organizes various workshops/ seminars/ symposia/ conferences/ Faculty development programs periodically for Scholars to understand the research subject.
6. The University is being associated with various research laboratories of Govt./Semi – Govt. and industries in various disciplines & various Libraries and E – resources.
7. The University is being associated with number of professionals.
8. The University has good number of recognized Guides/ Research Supervisor having vast experience with specialization in different disciplines, many industrial experts as Co-Research Supervisors /Co- guides, Emeritus Professors, Adjunct Professors and experienced Advisors from reputed institutes.

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9. The University is situated in rural area of Jhunjhunu of Rajasthan and the Trust which runs the University is situated in Mumbai having affiliated colleges with University of Mumbai, Garware Institute of career studies, and many more.
10. The Chairperson/ Chairman of the University is a well-qualified Engineer, Lawyer, an Industrialist, Social Activist, Writer, Ex – Member of Senate of Mumbai University having vast exposure and wide connections with Academia, Industries and has personally witnessed the working of Oxford, Cambridge, California, Columbia and various other leading Universities of India and abroad.
11. The University has excellent facilities and infrastructure for studying at Jhunjhunu which is very close to most famous institute – BITS Pilani.
12. A) The University has got inter-phasing with industry organization like FICCI, COSIA etc., and have got their highly intellect resources to guide our scholars as co – guides.  
B) The University is planning to setup research lab jointly with COSIA in various field like solar energy, Wind energy etc.
13. The University is student-friendly and provides proper guidance to the students right from Research Proposal to Synopsis, final dissertation and ensure scholar to complete best research work, additional knowledge, well within the time frame.
14. The University has its own publications house in which many publication divisions to publish books & journals of ISSN/ISBN numbering different areas of research.
15. The University is enlisting displaying various National/ International seminars on its website for the Participation & Presentation of papers though conference by the scholars.

### **SALIENT FEATURES**

#### **1. Infrastructure**

The University campus is spread across 30 acres of land with approximately 9 Lakhs sq. ft. built up area and having modern infrastructural within the campus.

#### **2. Faculty**

The University is equipped with qualified and experienced faculties. Besides, several experienced visiting faculties are invited to deliver lectures for the benefit of students. The University has also appointed good number of Adjunct Faculties/Emeritus Professors in different subjects.

#### **3. Library**

Shri JJT University, Central Library is spanning over more than 15,000 sq. ft. area has over 39,561 books, 60 Journals, 18 magazines and 07 Newspapers are subscribed by our central library for the students, Scholars, Faculty members and Administrative Staffs. Our Central Library is also a member of DELNET & EBSCO database to access various E--resources (Journals, Magazines, Periodicals & Various Digital library resources). Which can be accessible within the campus as well as remotely 24×7 hrs throughout the year. The University Central Library is fully automated with the KOHA automation software.

#### **4. Computer Lab**

The University is equipped with state-of-art Computer laboratories with Wi-Fi facilities, latest computers with LCD projector, scanner, and the following licensed soft wares:

- 1) Window 10 with Microsoft 2010- Office, Excel Power Point/ Linux System etc.
- 2) SPSS for definition, Objectives and features, Data analysis, Data entry creating variables, switching to data labels, Frequencies, recording into different variables, cross tabulations and layers.
- 3) Solid work software covering Drawing Editors, 3D CAD covering part/ solid/ surface assembly/ Drawing and detailing/ sheet metal/ photo- works modelling.
- 4) COSMOS advance professional.
- 5) COSMOS Motion covers mechanism with Analysis.
- 6) Auto CAD.
- 7) 3D Printer.

#### **5. Accommodation**

The following facilities have been developed:

- Separate furnished hostel facilities for girls and boys.
- Necessary furniture and other items for their comfortable stay.
- Common room for general activities like cable TV and indoor games in hostel.
- Ironing, phone, cafeteria and library facilities.
- Air cooled rooms and round the clock supply of water& light.
- Wi-Fi campus.
- Departmental stores for stationeries, spiral binding, photocopying and daily routine
- goods and essential materials, printing & hard binding of Thesis etc, are available at
- cost.

#### **6. Transport Facilities**

Transport facility is available on paid busses from University Campus to Jhunjhunu, Jaipur and Delhi City for Research Scholars if informed in advance to Mahavir ji – 9928038675, 8104883381.

#### **7. Banking Facilities**

ATM is installed within the campus.

#### **8. Canteen**

- (a) The University has a spacious and well-furnished canteen & serves all vegetarian dishes to the students / scholars residing in the hostel.
- (b) Provisional Store and stationary facility are available in University campus.

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### 9. Sports Complex and Gymnasium

A modern sports complex providing facilities for both indoor and outdoor games, cricket ground, volley- ball court, basket- ball court, foot- ball & hockey ground, Table Tennis, Lawn Tennis, Carom, Chess etc. A modern well- equipped gymnasium is developed with various equipment's, Tread mill, Ergo meter, Multi station Gym, Weighing Machine, Bench Press, barbell, Dumble's, Rubber mattresses etc.

### 10. Music Room

Tabla, Harmonium, Flute, Guitar, Tanpura, Organ, Kango, Jhange Dhapli etc.& other musical instruments are available.

### 11. Community Radio (Radio JJT 90.4Mhz)

Shri JJT University's community radio is broadcasting on 90.4 MHz in the name of Radio JJT. The basic objective of this radio broadcast is to include such subjects in each of its programs, which can benefit local residents, students, elders, women, children and common people, educate and make them aware. This radio, which will be broadcast within a radius of 10 kilometers, will discuss agriculture with local farmers, agricultural scientists and experts, what kind of farming can provide benefits to the farmers.

### 12. Photographic Lab: -

The University has fully Equipped Photographic lab with (1) Dark - Room (2) Digital camera with flesh, Digital Lights, Photo Enlarger, and Computer with Photoshop software.

### 13. Medical facility

A hospital, within the University campus, for 24 hours, with facilities, such as, a Diagnostic centre, Dental care, Eye and General check-up. Homeopathy and Ayurvedic doctors are also available.

### 14. Health Club, Physiotherapy, Yoga and Naturopathy Centre:

The philosophy at JJTU is that exercise and activity are essential to a healthy and a balanced lifestyle. We have our dedicated team of professionals and trainers, for the therapy and other activities.

### 15. Site Visit on Request: -The JJTU Campus is surrounded with the monuments and Heritage. The places are:

- Mandava Heritage
- Pilani Auditorium
- CEERI, Pilani
- Rani Sati temple, Khami Sati temple, Jhunjhunu
- Shiva Temple, Bissau

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### **RULES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)**

The Shri JJT University offers Research programme in different subjects & in inter-disciplinary areas leading to the Degree of Doctor of Philosophy. A candidate shall ordinarily work in a recognized place of research including the University Departments and Research Institutes recognized by the University under the supervision of a Research faculty supervisor of the University. The rules regarding eligibility, registration, supervision, submission and evaluation of thesis, viva voce and defence of thesis shall be as follows:

Eligibility criteria for admission to the Ph.D. Programme.-The following are eligible to seek admission to the Ph.D. programme:

#### **1. Candidates who have completed:**

- i. A 1-year/2-semester master's degree programme after a 4-year/8-semester bachelor's degree programme or a 2-year/4-semester master's degree programme after a 3-year bachelor's degree programme or qualifications declared equivalent to the master's degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate or its equivalent grade in a point scale wherever grading system is followed or equivalent qualification from a foreign educational institution accredited by an assessment and accreditation agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assure quality and standards of the educational institution.

A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently-Abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.

Provided that a candidate seeking admission after a 4-year/8-semester bachelor's degree programme should have a minimum of 75% marks in aggregate or its equivalent grade on a point scale wherever the grading system is followed. A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently-Abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.

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- ii. Candidates who have completed the M.Phil. programme with at least 55% marks in aggregate or its equivalent grade in a point scale wherever grading system is followed or equivalent qualification from a foreign educational institution accredited by an assessment and accreditation agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assure quality and standards of educational institutions, shall be eligible for admission to the Ph.D. programme. A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently-Abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.
- iii. Hon. Chairperson/Chairperson may waive the eligibility criteria of minimum 55% mark in Post Graduate degree if the Candidate has exceptional abilities in research, vast industrial/educational experience or having credit of more publications in refereed journals etc. however the Scholar to give undertaking that he will not seek any Government job.

### **2. Procedure for Admission -**

- 1. The admission shall be based on the criteria notified by the institution, keeping in view the guidelines/norms in this regard issued by the UGC and other statutory/regulatory bodies concerned, and taking into account the reservation policy of the Central/State Government from time to time.
- 2. Admission to the Ph.D. programme shall be made using the following methods:
  - i. University may admit students who qualify for fellowship/scholarship in UGC-NET/UGC- CSIR NET/GATE/CEED and similar National level tests based on an interview.

#### **And/or**

- ii. University may admit students through an Entrance Test conducted at the level of the University. The Entrance Test syllabus shall consist of 50% of research methodology, and 50% shall be subject specific.
- iii. Students who have secured 50 % marks in the entrance test are eligible to be called for the interview.
- iv. A relaxation of 5 % marks will be allowed in the entrance examination for the candidates belonging to SC/ST/OBC/differently-abled category, Economically Weaker Section (EWS), and other categories of candidates as per the decision of the Commission from time to time.



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- V. University may decide the number of eligible students to be called for an interview based on the number of Ph.D. seats available.
  - Vi. Provided that for the selection of candidates based on the entrance test conducted by the University, a weightage of 70 % for the entrance test and 30 % for the performance in the interview/viva- voce shall be given.
3. University shall:
- I. Notify a prospectus well in advance on the institution's website specifying the number of seats for admission, subject/discipline-wise distribution of available seats, criteria for admission, the procedure for admission, and all other relevant information for the candidates;
  - ii. Adhere to the National/State-level reservation policy, as applicable.
4. The University shall maintain a list of Ph.D. supervisors (specifying the name of the supervisor, his or her designation, and the department, along with the details of Ph.D. scholars (specifying the name of the registered Ph.D. scholar, the topic of his/her research and the date of admission) admitted under them on the website of the institution and update this list every academic year.
5. The University concerned shall obtain a “No Objection Certificate” through the candidate for a part-time Ph.D. programme from the appropriate authority in the organization where the candidate is employed, clearly stating that:
- i. The candidate is permitted to pursue studies on a part-time basis.
  - ii. His/her official duties permit him/her to devote sufficient time for research.
- If required, he/she will be relieved from the duty to complete the course work.



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### STANDARD PROCEDURE FOR PURSUING Ph.D. (As per UGC Norms, November 2022)

1. Fill the application form, affix the Photo wherever asked, attach documents and submit the same duly filled and signed along with registration fee of Rs. **5000/-** by way of online payment by IMPS/NEFT/RTGS at University Bank Account.
2. Appear for interview after submitting interview form (Annexure – A). Prepare Research Proposal of approx. 4-5 pages be prepared detailing about what is the reason for selecting the topic, what is the benefit of that topic, what are the planning to do the research and also what is discussed during interview.
3. After successful completion of interview process, candidate shall be intimated by email at the registered email id of the candidate about his/her selection and provisional Registration Number. Thereafter candidate now called as scholar should quote his/ her registration number while contacting/ communicating with University.
4. Pay the term fees of 1<sup>st</sup> year semester I instalment of Rs. 40,000/- and course work fees Rs. 55000/-
5. Collect your Ph.D. Identity Card indicating your Name, Registration number.
6. In normal circumstances, the supervisor will not be changed. However, in exceptional cases with valid reasons, the supervisor can be changed on the written request of Research scholar to the President.
7. The duration of the Ph.D. program minimum three years period will be counted from the date of Pre- Ph.D. Entrance Test and successful interview. and minimum four years period for part-time.
  - i. Ph.D. Programme shall be for a minimum duration of three (3) years, including course work, and a maximum duration of six (6) years from the date of admission to the Ph.D. programme.
  - ii. A maximum of an additional two (2) years can be given through a process of re-registration as per the Statute/Ordinance of the Higher Educational Institution concerned; provided, however, that the total period for completion of a Ph.D. programme should not exceed eight (8) years from the date of admission in the Ph.D. programme.

Provided further that, female Ph.D. scholars and Persons with Disabilities (having more than 40% disability) may be allowed an additional relaxation of two (2) years; however, the total period for completion of a Ph.D. programme in such cases should not exceed ten (10) years from the date of admission in the Ph.D. programme.

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### 8. Categories of Ph.D. Candidates

There shall be three categories of Ph.D. candidates:-

- (a) **Full Time candidates:** All candidates who pursue full time research in this University shall belong to this category.
- (b) **Part Time (Internal) candidates:** All candidates employed in SJJTU who pursue part time research in this University shall belong to this category.
- (c) **Part Time (External) candidates:** Candidates admitted under this category shall be working in a research organization, government department, and academic Institute or industry and shall be sponsored for pursuing Ph.D. Program in this University. The concerned Organization/Academic Institute/Industry should facilitate research.

9. After Completion of Course work and deposition of complete three-year fees ie. Rs. 240000/-, Course work & Exam charges Rs. 55000/-, Course work Exam will be conducted and DRC will be done.

10. Allocation of Research Supervisor: Eligibility criteria to be a Research Supervisor, Co-Supervisor, Number of Ph.D. scholars permissible per supervisor, etc.

- i. An eligible Professor/Associate Professor/Assistant Professor can guide up to eight (8) / six (6) / four (4) Ph.D. scholars, respectively, at any given time.
- ii. Faculty members with less than three years of service before superannuation shall not be allowed to take new research scholars under their supervision. However, such faculty members can continue to supervise Ph.D. scholars who are already registered until superannuation and as a co-supervisor after superannuation, but not after attaining the age of 70 years.
- iii. In case of interdisciplinary/multidisciplinary research work, if required, a Co-Supervisor from outside the Department/University may be appointed.

11. Engineering, Pharmacy, Technical and Science scholars should manage laboratories related to their research work either at their college or in a private lab at their own cost, if practical work is carried outside university campus. For private labs NABL certification must be provided along with list of lab equipment's & consent of working in the Lab.

12. Prior approval of the Laboratory should be taken from University before starting the Research work. The lab should be fully equipped to carry out all experiments to pursue Research programme. The list of equipment's & qualified guide for lab should be furnished before DRC.

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13. Research Scholar has to do one semester course work that includes Class room learning, Research Methodology, Computer Application, Quantitative technique, Research Publication & Ethics, Review of Literature and Assignments at University campus. The course work detail is as per annexure - B. The books for above courses are available in University library on payment.
14. After passing the course work exam, the scholar will be allowed to proceed with 20- 24 pages of Synopsis work and complete the assignment given before submission of synopsis with due presentation during DRC. At the time of DRC or before, the Scholar is expected to submit the Original Migration Certificate after filling the enrollment form and acknowledgement will be issued. This will qualify the Research scholar to pursue further Ph.D. programme.

Once the Departmental Research Committee (DRC) approves the Synopsis, a DRC Approval letter will be issued to the Scholar. Those who have received the DRC Approval letter, they are the confirmed Research Scholar. University will forward the Synopsis to INFLIBNET to be uploaded in Shodhgangothri.

15. Scholars have to pay boarding & lodging charges separately as per the norms.
16. Successful completion of DRC, Research Scholar is expected to publish two Articles in an ISSN numbers referred journal on the topic chosen, participate two National and two international conferences held anywhere, and take guidance with Supervisor for a period of 600 hours. Research Scholars to submit a photocopy of the article published with certificate from the publisher that it has been referred, to the University at the time of Thesis submission.
17. Once the Research findings are completed, Research Scholar must submit an acceptable quality of Summary of Thesis containing 20-25 pages as per format, before 30 months from the date of admission. In case the Research Scholar is not able to follow this instruction, then it will be presumed that scholar is not interested in completing his/ her Ph.D. in the minimum three years. In that event, additional fee of Rs. 80000/- per year for successive years has to be paid. The registration is valid for a maximum period of six years.
18. Six monthly progress reports to be presented at the University duly signed by the Supervisor stating in detail the number of working hours.

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- I. Each semester, a Ph.D. scholar shall appear before the Research Advisory Committee to make a presentation and submit a brief report on the progress of his/her work for evaluation and further guidance. The Research Advisory Committee shall submit its recommendations along with a copy of Ph.D. scholar's progress report to the Higher Educational Institution concerned. A copy of such recommendations shall also be provided to the Ph.D. scholar.
  - ii. In case the progress of the Ph.D. scholar is unsatisfactory, the Research Advisory Committee shall record the reasons for the same and suggest corrective measures. If the Ph.D. scholar fails to implement these corrective measures, the Research Advisory Committee may recommend, with specific reasons, the cancellation of the registration of the Ph.D. scholar from the Ph.D. programme.
19. Research scholar is expected to spend minimum 600 hours with the supervisor for any of his work and discussions during the tenure of Ph.D. course and a certificate to that effect be obtained from the supervisor and to be submitted to the University before submission of the thesis.
20. The Scholar must attend 2 National conference and 2 International Seminars, presenting papers in the seminars, and six-monthly program report duly signed by the Supervisor at regular intervals of six months.
21. After submission of the summary of the Thesis, the scholar must prepare the Thesis according to Annexure –D and submit the soft copy, by E mail [thesis@jjtu.ac.in], for **PLAGIARISM CHECK [PC]**. The University expects the Scholar to do original research. However, the University will allow a maximum of 10% plagiarized work that includes 1<sup>st</sup> page of title page to last page, including 'References' and 'Appendices'.
22. Prior to submission of thesis, Research scholar shall make a Pre Ph.D. presentation submission in the department that may be open to all faculty members and Research Scholars for getting feedback and comments which may be suitably incorporated in the draft of Thesis under the advice of Supervisor/Co-supervisor. At the time of Pre-Ph.D. presentation, Research Scholar is expected to submit all pending documents as mentioned in the check list.
23. The Ph.D. supervisor will provide a panel of eight subject Experts selected from not below the rank of Associate Professors working in University/ College level for sending the Thesis for evaluation. University will select two Professors for sending the Thesis.
24. Final thesis should be hard- bounded and to be printed as per the format shown in annexure D. Five sets of hard bound copies of Thesis and three soft copies of the thesis are to be submitted to the University. The soft copies should be submitting in Ms-Word and PDF forms (Single file and Chapter wise). soft copy should match page wise.

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25. On receipt of satisfactory evaluation report, the research scholar will be called to appear for Viva-Voce where he has to make the presentation of Thesis and shall be openly defended by Research scholar in presence of Director (Research), HOD, Faculty of Department, Supervisor/Co-Supervisor and a President's nominee.
26. The Ph.D. Degree will be awarded as per concerned Department.
27. If the UGC and/ or any other authority do not give any benefit in terms of monetary or otherwise to Research scholar after taking Ph.D. The University shall not be responsible for any reason whatsoever.
28. All research papers published in the referred journal and Thesis approved & Accepted by the University will be the sole property of the University.
29. If at any time during the course, Ph.D. scholar wants to discontinue, then Shri JJT University will not issue any certificate regarding any course done during the tenure from the University and no fee will be refunded or transferred to the Supervisor that it is in the prescribed format.
30. Scholar is advised to submit **Research Proposal, Synopsis, Summary of Thesis and Thesis** as per the format given in Ph.D. guidelines. While submitting Synopsis, summary of Thesis and final Thesis in University, a letter should be enclosed signed by the Supervisor that it is in the prescribed format.
31. No complaint will be entertained from the Research Scholar for late submission of synopsis/ summary of the Thesis/Thesis in the University. If the concerned Co-ordinator do not give permission for the submission, then Research Scholar may feel free to contact the higher authorities. Registrar, Director, President, Chairperson.
32. The Pre-Thesis should be submitted in spiral binding and after necessary correction it should be submitted in hard bound.
33. Certificate from the Editor / Publisher should be obtained stating that same article has been published by the scholar as Shri JJT University in our journal (volume/ref).
34. It is mandatory to mention that you are Research Scholar of Shri JJT University in any article / paper presentation / conference certificate.
35. The publication should be done in recognized and refereed journal having ISSN No. The article should be original and scholars should submit a copy of plagiarism check result along with reprint of the journal. The article should not exceed 10% a plagiarised matter. In case the scholar did not comply. The University will do it at scholar's cost.
36. The publication should preferably be in Single Authors or with Guide publication having more than two authors will be not considered.

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37. It is mandatory to submit hard copy of Journal and souvenir in which paper published / seminar / workshop attended.
38. The scholars are requested to donate the Journals / Books and other useful material to the University for the reference of scholars.
39. Depository with INFLIBNET.- Following the successful completion of the evaluation process and before the announcement of the award of the Ph.D. degree(s), the Higher Educational Institution concerned shall submit an electronic.
40. Copy of the Ph.D. thesis to INFLIBNET, for hosting the same so as to make it accessible to all the Higher Educational Institutions and research institutions.

### CONTENTS OF RESEARCH PROPOSAL FOR INTERVIEW (4/5 PAGES)

CHAPTER	TOPICS	PAGE
1.	PREAMBLE	0.5
2.	OBJECTIVES	0.5
3.	HYPOTHESIS	1
4.	METHODOLOGY	1
5.	SCOPE & LIMITATIONS	0.5
6.	UTILITY	0.5
7.	REFERENCES	0.5

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### **COURSE WORK :**

The course work shall be treated as prerequisite for M.Phil./Ph.D. preparation. A minimum of four credits shall be assigned to one or more courses on Research Methodology which could cover areas such as quantitative methods, computer applications, research ethics and review of published research in the relevant field, training, field work, etc. Other courses shall be advanced level courses preparing the students for M.Phil./Ph.D. degree.

1. "Course Work" means courses of study prescribed by the Department to be undertaken by a student registered for the Ph.D. Degree;
2. "Cumulative Grade Point Average (CGPA)" means a measure of the overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all semesters. It is expressed up to two decimal places;
3. "Credit" means the number of hours of instruction required per week over the duration of a semester. A three-credit course in a semester means three one-hour lectures per week, with each one-hour lecture counted as one credit;
4. The Credit requirement for the Ph.D. coursework is a minimum of 12 credits, including a "Research and Publication Ethics" course as notified by UGC vide D.O. No. F.1- 1/2018(Journal/CARE) in 2019 and a research methodology course. The Research Advisory Committee can also recommend UGC recognized online courses as part of the credit requirements for the Ph.D. programme.
5. All Ph.D. scholars, irrespective of discipline, shall be required to train in teaching /education /pedagogy/writing related to their chosen Ph.D. subject during their doctoral period. Ph.D. scholars may also be assigned 4-6 hours per week of teaching/research assistantship for conducting tutorial or laboratory work and evaluations.
6. A Ph.D. scholar must obtain a minimum of 55% marks or its equivalent grade in the UGC 10-point scale in the course work to be eligible to continue in the programme and submit his or her thesis.

Research scholar is expected to prepare the following assignments:

1. Assignment I - Critical Review of Literature – Minimum 10 Articles from referred journals with ISSN Number on the topic of his/her research work.
2. Assignment II - Critical Review of Literature Minimum 5 Patents/ Journals/ Books with ISBN No.



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### Review of Published Research Work

#### **Recommendations**

1. Patent (US, British, Indian)
2. Use of Internet, sights (DOAJ) etc.
3. Use of Research Journals/ E–Journals (Springer, Wiley, Elsevier Academic)
4. Use of e – Library, Pro quest, ebsco etc.
5. Use of various Libraries like Central Library, British Council, American Library & JJT University Library
6. Use of EBSCO\_HOST online Database for Academic Libraries.
7. Refer links of various e-journals given in JJTU website.
8. Emeralds
9. National Digital Library of India (NDL)
  - a. For any doubt scholar may contact Email Id [centrallibrary@jjtu.ac.in](mailto:centrallibrary@jjtu.ac.in)

**DRAFTING A GOOD RESEARCH REPORT (THESIS)**

1. Please take care that: –
  - (i) The title has a clear focus
  - (ii) Problem is clearly stated and suitably delimited
  - (iii) Population is properly defined and sampling is scientific
  - (iv) It covers conceptual framework and review of related literature
  - (v) Facts are critically evaluated and objectivity is strictly followed
  - (vi) Finishing, Polishing and final touches are given to make the report weighty, authoritative, convincing and attractive.
1. Language should be clear, lucid, concise, precise, correct, complete, readable and effective. Use simple words, familiar words, short sentences (not complicated and long-winding) and less technical jargon.
2. Use proper typography, correct grammar, punctuations and spellings, appropriate headings, sub-headings, foot notes etc.
3. Let the layout be attractive and uncluttered.
4. There should be logical flow and integrated progression of ideas.
5. Avoid irrelevant material, redundant repetition and contradiction.
6. Display good grasp of the subject.
7. Analysis and interpretation of data should be proper and valid and duly supported by charts, tables, figures, diagrams etc.
8. Appropriate statistical tools/measures should be used.
9. Cover all issues/objectives and hypothesis evaluation/testing.
10. Findings should be appropriate.
11. Conclusions drawn should be sound and balanced.
12. Remedial measures/suggestions should be rational and feasible/practical.
13. Recommendations should be valid.
14. Due care should be taken regarding technicalities of thesis writing.
15. Ensure correct proof reading and crisp editing.
16. The thesis is a scholarly document. It should make an original contribution and offer stimulating ideas.

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### **Details of Ph.D. fee Structure for enrollment Three-year full-time Ph.D. Programme (which is not re-fundable)**

Sr. No.	Details of Fees	Amount
1	Registration Fees	5000
2	Tuition Fees for 3 years (Annual – 80,000/-)	240000
3	Course work Fees	45000
4	Course work Examination Fees	10000
5	Thesis Submission & Evaluation	100000
6	Other fees *	10000
<b>Total</b>		<b>410000</b>

#### **Payment Schedule as follows:-**

Pay in Installment's	Details of Fees	Amount
<b>I<sup>st</sup></b>	Registration Fees	5000
	At the time of CET for admission Fees	40000
<b>II<sup>nd</sup></b>	For Course work Classes	95000
<b>III<sup>rd</sup></b>	For CW Exam Fees	80000
<b>IV<sup>th</sup></b>	For DRC Fees	80000
<b>V<sup>th</sup></b>	For Thesis Submission & Evaluation Fees	100000
	Other fees *	10000

### **Details of Ph.D. fee Structure for enrollment four-year part-time Ph.D. Programme (which is not re-fundable)**

Sr. No.	Details of Fees	Amount
1	Registration Fees	5000
2	Tuition Fees for 4 years (Annual – 80000 )	320000
3	Course work Fees	45000
4	Course work Examination Fees	10000
5	Thesis Submission & Evaluation	100000
6	Other fees *	10000
<b>Total</b>		<b>490000</b>

#### **Payment Schedule as follows:-**

Pay in Installment's	Details of Fees	Amount
<b>I<sup>st</sup></b>	Registration Fees	5000
	At the time of CET for admission Fees	40000
<b>II<sup>nd</sup></b>	For Course work Classes	95000
<b>III<sup>rd</sup></b>	For CW Exam Fees	120000
<b>IV<sup>th</sup></b>	For DRC Fees	120000
<b>V<sup>th</sup></b>	For Thesis Submission & Evaluation Fees	100000
	Other fees *	10000

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### Note: -

1. Fees once paid will not be refundable.
2. No complaints will be entertained if the scholar is required to pay additional fees Rs. 80000/- after 3 years for full-time and 4 years for part-time, for any reasons such as allocation of guides, evaluation of Thesis, correction of thesis, Evaluation of summary, declaration of results of course work etc.
3. Soft copy of thesis for Plagiarism checking can be sent to [thesis@jjtu.ac.in](mailto:thesis@jjtu.ac.in) immediately upon sending the summary within the 30<sup>th</sup> month.
4. Those who do not submit the plagiarism cleared thesis which is permitted up to 10% with Minimum 230 pages of thesis as per chapter scheme as indicated in the guide lines, charges Will be payable for the subsequent years and year will be counted till the date of Viva-voce Examination is successfully completed.
5. Fees paid at the time of Pre entrance test (CET) of Rs.40000/- will be adjusted in the balance Fees payable.
6. Scholar should take care of Thesis as prescribed in Annexure-D i.e, spacing between lines, margin, fonts, word size, pages, cauterization etc. Any repetition of paras or irrelevant tables/ formulas no relevance to the context will not be accepted.
7. The sketch, Diagram, images, tables in the subject of Science, Pharmacy, and Engineering etc. Should not exceed 20% of the total pages.
8. In case of sketch, Diagram, images, tables necessitated in the Thesis, the pages should be minimum 180 excluding the graph, images, tables etc. without which
9. Thesis will not be considered for Plagiarism check.
10. Co-supervisor as external guide will be provided to the scholar in case of inter-disciplinary Research and unavailability of expert faculty as per Regulation July 2016.
11. There is no upper limit for the pages in thesis.
12. Plagiarism fees (Free for first time).If words / sentence /paragraph are repeated multiple times then it is [chargeable@Rs.2000/-per](#) check.
13. \*Other fees include: Enrollment fees, Migration Certificate, Provisional Degree Certificate, Convocation charges, etc.
14. Charges for Hostel: Non-AC rooms 1000/-Per person per day (In Sharing): AC rooms: Rs1500/-per person per day (In sharing).

### Note: - Scholar may deposit their fees though NEFT the Bank details as under:

Account Name: Shri JJT University

Account Number: . 50200028167665

IFSC Code: . HDFC0001312

Bank Name: . HDFC Bank, Jhunjhunu (Rajasthan)

For confirmation of fees receipt contact: - 9667979327, 8104883372

Email ID: - [fees@jjtu.ac.in](mailto:fees@jjtu.ac.in)



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### CHECK LIST TO BE EXECUTED AT THE TIME DRC

1	Name of Scholar	
2	Subject	
3	Registration No.	
4	Enrollment Number	PEN/
5	Fees paid so far	
6	Whether the Scholar has submitted application along all the documents from 10 <sup>th</sup> to post graduation including Mark-sheet are attested or original certificate seen and certified by university authorities	Yes/No
7	Whether interview letter is signed by the scholar with Research proposal 4 to 5 pages Hand Written	Yes/No, if yes write the date
8	Whether lab letter is furnished (wherever applicable)	Yes/No
9	Whether guide Consent letter is submitted	Yes/No
10	Whether Migration certificate in original is submitted for Enrollment	Yes/No
11	Whether Review of Literature completed	Yes/No
12	Whether topic is searched in Google/ infibnet to check whether anyone else is doing Research on same topic	Yes/No
13	Whether Synopsis is submitted 1 hard and 2 soft copies along with one PPT soft/hard copies submitted	Yes/No
14	Whether course works have been successfully completed (Attached CW marks details)	Yes/No
Verified by Scholar		Checked by Co-ordinator
		Verified by Authorities

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### **CHECK LIST TO BE EXECUTED AT THE TIME RECEIVING THESIS**

<b>CHECK LIST TO BE EXECUTED AT THE TIME RECEIVING THESIS</b>		
15	DRC form with DRC approval Letter is done	Yes/No
16	Whether six monthly progress report submitted with Guide seal and signature & presented through PPT	Yes/No
17	Whether Four conference participation certificate (two national and two international) are submitted either with presentation or without presentation	Yes/No
18	Whether reprint for Two Articles published in refereed journal is submitted with editor's confirmation that it is a refereed article	Yes/No
19	Thesis Summary 1 hard and 2 soft copies with panel of referees	Yes/No
20	Whether the Thesis has been checked with plagiarism software and what is the percentage of plagiarized contain detect. Please attach the result sheet	
21	Whether Scholar has submitted the Affidavit as per Ph.D. guidelines	Yes/No
22	Whether Guide has submitted the undertaking as per Ph.D. Guidelines	Yes/No
23	Whether the scholar has made pre-presentation of Thesis	Yes/No
24	Whether No dues letter has been circulated, signed by all concerned and returned to Ph.D. section. No due certificate should not be issued to Scholar	Yes/No
25	Whether 5 hard bound Thesis is submitted as per Ph.D. guidelines with 2 soft copies	Yes/No
26	Whether Thesis contains 230 pages of Text with graph/images relevant to the context and proper illustration	Yes/No
Verified by Scholar      Checked by Co-ordinator      Verified by Authorities		

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### Annexure 'A' - INTERVIEW

(At the time of interview, Research Scholar is expected to submit a Proposal of 4 to 5 pages covering all the points mentioned below)\_\_\_

1 Name: \_\_\_\_\_

2 Address: \_\_\_\_\_

3 Contact No: \_\_\_\_\_

4 E-mail Id: \_\_\_\_\_

5 Topic of Research: \_\_\_\_\_

In case of faculty of science/ engineering/ pharmacy, name the institution where  
6 research experiments/ practical's will be carried out.

Is your research project sponsored by the organization you work with? Yes/ No. If  
7 yes, please state the nature of sponsorship.

Are you a fellow member of ICA (Institute of Chartered Accountants) or an  
8 engineering graduate seeking admission on the basic of bachelor's degree? If yes  
give details.

9 Experience in years of relevant area? \_\_\_\_\_

10 Number of publications in referred journals, if any? \_\_\_\_\_

11 What are the objectives of your doing Ph.D.?

12 What methodology will you follow for doing your Ph.D.?

13 How is your research going to benefit society at large?

Have you done preparatory work for your proposed research? Yes/ No. If yes, give  
14 details:

15 How will you review the earlier research carried out in your subject. Please Specify.

I confirm that I shall abide by all terms and conditions laid down by the University  
presently and amended from time to time.

(Ph.D. Scholar)  
Signature



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### Consent of Guide/ Supervisor

To,  
The President,  
Shri Jagdishprasad Jhabarmal  
Tibrewala University, Vidyanagari,  
Jhunjhunu, Rajasthan-333010

Sir,  
I Dr. \_\_\_\_\_ registered guide/ supervisor for the Ph.D.  
programme in the subject of \_\_\_\_\_ as per my registration no.  
\_\_\_\_\_ of University.

I consented to undertake the responsibility that I shall work as Guide/ Supervisor of Mr. /  
Mrs. \_\_\_\_\_ Reg No. \_\_\_\_\_ Registered as a scholar  
under title.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ in the subject of  
\_\_\_\_\_ and instruction given in the Act, Ordinance, Statutes of Shri  
Jagdishprasad Jhabarmal Tibrewala University, Jhunjhunu, (Rajasthan)

Guide/ Supervisor  
(Signature with stamp)

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---

Ref: \_\_\_\_\_

Date: \_\_\_\_\_

To  
The President,  
Shri Jagdishprasad Jhabarmal  
Tibrewala University, Vidyanagari,  
Jhunjhunu, Rajasthan-333010

### **Sub: Laboratory Approval for Research work**

Dear Sir/Madam,

We understand that one of our staff Mr. /Mrs. /Ms. \_\_\_\_\_ (Name of Research Scholar) has enrolled with your esteemed university as a Research Scholar under the Registration No: \_\_\_\_\_ in the department of \_\_\_\_\_ under the guidance of Dr. \_\_\_\_\_. He /She has been permitted to use our lab for the Research Work.

We are happy to inform you that our (Subject) labs are fully equipped (List attached) and have Accreditations from \_\_\_\_\_.

This/These labs under the supervision of the HOD Dr./Shri. \_\_\_\_\_ can be conducted by Mr/Mrs/Ms (Name of Research Scholar) for carrying out his/her research practical's.

Name: \_\_\_\_\_ (Lab in charge/HOD/Principal)

Address: \_\_\_\_\_  
\_\_\_\_\_

Phone: \_\_\_\_\_

Thanking You

(Principal /Director)

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### PROGRESS REPORT NO. I / II / III / IV/V/VI

Reg. No. of Scholar \_\_\_\_\_

To,  
The President,  
Shri Jagdishprasad Jhabarmal  
Tibrewala University, Vidyanagari,  
Jhunjhunu, Rajasthan-333010

**Submitted through the Guide**  
**Sub: Progress report of Ph.D. Research Work**  
(To be submitted every six months)

Sir,

**I am the Ph.D. scholar of the University. My details are given as under:**

- I. Name of the scholar: \_\_\_\_\_
- ii. Name of the Guide: \_\_\_\_\_
- iii. Guide Registration No.: \_\_\_\_\_
- iv. Name of the Co-Guide: \_\_\_\_\_
- v. Co-Guide Registration No.: \_\_\_\_\_
- vi. Subject: \_\_\_\_\_
- vii. Title of Research: \_\_\_\_\_
- viii. Date of Submission of Research Proposal: \_\_\_\_\_
- ix. Place of Research Centre where research is carried out: \_\_\_\_\_

**(1.) The progress of my research work is as follows:**

- I. Chapter-wise progress done as on: \_\_\_\_\_
- ii. Chapter - plan of research as mentioned in research proposal: \_\_\_\_\_
- iii. Proposed plan for completing the remaining research work: \_\_\_\_\_
- iv. List of books, journals etc. referred with footnotes \_\_\_\_\_
- v. Details of review of literature: \_\_\_\_\_
- vi. Details of field visit, if any: \_\_\_\_\_

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vii. Details of laboratory work done, wherever necessary:

viii. No. of hours interacted with the Guide:

(Signature of Scholar)

### Certificate from the Guide

This is to certify that Research Scholar Mr./Ms. .... Reg. No. \_\_\_\_\_  
has interacted with me for \_\_\_\_\_ hours for his/her Ph.D. Research work during the  
period from \_\_\_\_\_ to \_\_\_\_\_ at\* \_\_\_\_\_

I further certify that the information given by him/her as mentioned above is true and correct and that the research in the subject matter has been done by him/her under my supervision and guidance is the original work and its validity has been tested by me and it has been done in accordance with the guidelines issued by the UGC and the university from time to time.

Research Guide

Date:

(Signature with stamp)

*\* Write the name of the approved research centre / college / institution / university, where the research work is carried out.*

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**TITLE OF THE SYNOPSIS**

(It must be bold and in capital letters. It must not be put in inverted commas)

A

SYNOPSIS

SUBMITTED TO THE

**SHRI JAGDISHPRASAD JHABARMAL TIBREWALA UNIVERSITY,**

FOR THE DEGREE

OF

**DOCTOR OF PHILOSOPHY**

IN

Subject



BY

**X.Y.Z** (*Full name of the candidate*)

(Registration No. ....)

UNDER THE GUIDANCE OF

**Dr. A.B.C** (*Full name of the guide*)

DEPARTMENT OF .....

**SHRI JAGDISHPRASAD JHABARMAL TIBREWALA UNIVERSITY,**

VIDYANAGARI, JHUNJHUNU, RAJASTHAN – 333010

Year ..... (The year of submission)

**Contents of Synopsis**

- Title of Thesis / Research

- Introduction:

It should cover general importance of the research topic taken and its justification in present era (2 – 3 pages)

- Literature Review:

It must cover the work done by other researchers in this field. It should include review of 30– 35 research papers published in international and national research papers done in the last 20 years from starting year of registration). Every reference should be represented by 3- 6 lines abstract list of that paper. In case of languages references of books can be considered.

- Objective of the present work. (Point wise)

- Hypothesis (if applicable)

- Work Plan and Methodology

- References / Bibliography

**Note: - The researcher would be required to adhere to the following standards for Submission of Ph. D. Synopsis:**

1. 1 Sides printing
2. 12 font sized for English typing, Printing either in Times New Roman or Arial font.
3. 14 font sized for Hindi typing, Printing in KrutiDev 010 or DevLys 010font.
4. Margins:-
  - Left: 1.5 inches
  - Right: 1.0 inches
  - Top: 1.0 inches
  - Bottom: 1.0 inches
  - Line Space: 1.5 inches
5. Page size A4

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### Points for consideration for preparation of Synopsis

- Information must include according to chapters
- References must include between last 20 years
- Which references are included in written matter, only those references have to include in reference/ bibliography chapter.
- References must be written in alphabetic order
- Matter must not be copied from net, it must be typed
- A Certificate Attached after title page with signature of research scholar and his/ her supervisor (signature and seal).
- Please submit 1 hard copy and 2 soft copies.
- Synopsis is forwarded to UGC site **Shodhgangotri**.
- Number of pages in complete Synopsis **should be less than 24 pages**.
- References must be in one format given below (**more than 30 latest references** must be included in synopsis)
- Synopsis should be in **spiral bound**.  
S.No. Author Name (year), Title of article/ Book, Journal Name, Volume No., Issue No., Page No.
- **One page of information page attached with detail of those things both in soft and hard copy**
  1. Title of Research work
  2. Name of Scholar
  3. Subject
  4. Registration No:
  5. Name of Guide
  6. Designation
  7. Guide working place

Signature of the Guide  
with Seal

Signature of Scholar



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**TITLE OF THE SUMMARY**

(It must be bold and in capital letters. It must not be put in inverted commas)

A

SUMMARY

SUBMITTED TO THE

**SHRI JAGDISHPRASAD JHABARMAL TIBREWALA UNIVERSITY,**

FOR THE DEGREE

OF

**DOCTOR OF PHILOSOPHY**

IN

Subject



BY

**X.Y.Z** (*Full name of the candidate*)

(Registration No. ....)

UNDER THE GUIDANCE OF

**Dr. A.B.C** (*Full name of the guide*)

DEPARTMENT OF .....

**SHRI JAGDISHPRASAD JHABARMAL TIBREWALA UNIVERSITY,**

VIDYANAGARI, JHUNJHUNU, RAJASTHAN – 333010

Year ..... (The year of submission)

**Contents of Summary**

The Candidate need to cover the following:

1. Title page
2. Information Page
3. Introduction
4. Objective
5. Research Methodology
6. Results and discussion

**Note: The number of pages of summary should be between 20-25 pages and submit one hard copy and two soft copies.**

**The researcher would be required to adhere to the following standards for Submission of Ph. D. Summary:**

1. 1 Sides printing
2. 12 font sized for English typing, Printing either in Times New Roman or Arial font.
3. 14 font sized for Hindi typing, Printing in Kruti Dev 010 or Dev Lys 010font.
4. Margins: -
  - Left: 1.5 inches
  - Right: 1.0 inches
  - Top: 1.0 inches
  - Bottom: 1.0 inches
  - Line Space: 1.5 inches
5. Page size A4

**One page of information page attached with detail of those things both in soft and hard copy**

1. Title of Research work
2. Name of Scholar
3. Subject
4. Registration No:
5. Name of Guide
6. Designation
7. Guide working place

Signature of the Guide

Signature of Scholar

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**TITLE OF THE THESIS**

(It must be bold and in capital letters. It must not be put in inverted commas)

A

THESIS

SUBMITTED TO THE

**SHRI JAGDISHPRASAD JHABARMAL TIBREWALA UNIVERSITY,**

FOR THE DEGREE

OF

**DOCTOR OF PHILOSOPHY**

IN

Subject



BY

**X.Y.Z** (*Full name of the candidate*)

(Registration No. ....)

UNDER THE GUIDANCE OF

**Dr. A.B.C** (*Full name of the guide*)

DEPARTMENT OF .....

**SHRI JAGDISHPRASAD JHABARMAL TIBREWALA UNIVERSITY,**

VIDYANAGARI, JHUNJHUNU, RAJASTHAN – 333010

Year ..... (The year of submission)

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### Annexure - 'D' Contents of Thesis

The page numbers below are minimum page numbers for the chapter. This is a broad guide lines and Researcher is free to have more number of pages as per the requirement of the research. Serial numbers 1 to 12, 17 and 18 should be given in roman numbers. **The final thesis should not be less than 230 pages without considering the pages in Roman numbers.**

Sr. No.	Chapter Scheme	Min. Page
1	Title Page	
2	Declaration By the Candidate	
3	Certificate of Supervisor (s)	
4	Certificate of Laboratory Used (If Applicable)	
5	Acknowledgement	
6	Abstract	
7	Table of Contents	
8	List of Figures	
9	List of Tables	
10	Abbreviations (If Applicable)	
11	Notations (If Applicable)	
12	Nomenclature (If Applicable)	
13	Chapter-1	10
	Preamble	
	1.1 Introduction (Topic Background/History/Criticality)	
	1.2 Problem on Hand	2
	1.3 Research Objectives	1
	1.4 Scope of research work	1
	1.5 Organization (If Applicable)	10
	Where work is carried out (Product, Processes, Profile)	
	1.6 Hypothesis (If Applicable)	1
	(Introduction, description, detail, history, criticality etc.)	

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14	Chapter-2	35
	Review of Literature	
15	Title of Chapter -3	110
	3.1 Section Heading Name	
	3.2 Section Heading Name	
	3.2.1 Second Level Section Heading	
	3.3 Section Heading Name	
	3.3.1 Second Level Section Heading	
	3.3.2 Second Level Section Heading	
	3.3.2.1 Third Level Section Heading	
	Title of Chapter-4	
	And so on ... (According to Research Work)	
	All these above chapters should contain the following: - (Research Methodology /Experimental Work/Data Analysis, Result & Discussion)	
16	Last Chapter Summary and Conclusion	
	6.1 Summary & Conclusion	3
	6.2 Recommendations	1
	6.3 Future Scope	1
	6.4 Limitations of research work	1
17	References/ Bibliography	
18	Appendix (Publications Based on Thesis with editor certificate and Additional Information if any)	

Note: - 65 pages and more pages can be increased in Sr. No. 13, 14, 15 & 16.  
Text Pages must be 180 excluding tables, image & Graphs.

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The researcher would be required to adhere to the following standards for Submission of Ph. D. thesis:

1. 1 Sides printing
2. 12 fonts sized for English typing, Printing either in Times New Roman or Arial font.
3. 14 fonts sized for Hindi typing, Printing in Kruti Dev 010 or Dev Lys 010 font.
4. Margins:-
  - Left: 1.5 inches
  - Right: 1.0 inches
  - Top: 1.0 inches
  - Bottom: 1.0 inches
  - Paragraph space: after of before: 0 inches
5. Page size A4

References are to be listed after last chapter. The scholar may however use reference MLA style, IEEE or APA style but they should preferable write the given below.

### For Journals: -

1. Prakas, K. (2011). Feedback and optimal sensitivity: Model reference transformations, multiplicative seminorms and approximate inverses. IEEE transactions on Automatic control, 26(2): 301-320.
2. Ram, R., Krishana, S. and Peter, K. (2005a). Risk sensitive estimation and a differential game. IEEE transactions on Automatic control, 39(9): 1914-1918.
3. Ram, R., Krishana, S. and Peter, K. (2005b). Differential rectification using control points. IEEE transactions on Automatic control, 55: 914-918

### Dissertations and Thesis: -

- 1 Mack, S. (2000). "Desperate Optimism" M.S. Thesis, University of Calgary, Canada.

### Books: -

1. Bewley J. D. and Pacey J., (1978), Desiccation-induced Ultrastructural changes in drought sensitive and drought-tolerant plants. In: Dry biological systems, J. H. Crowe and J. S. Clegg (eds.), Academic Press, New York. 53–73
2. Levitt J. (1980), Responses of plants to environmental stresses. Vol. I. In: Chilling, freezing, and high temperature stress. London, New York, Toronto: Academic Press. 23-29

**APPENDIX -1**  
**DECLARATION BY THE CANDIDATE**

I declare that this thesis entitled “..... **(In bold running letters)** .....”  
is my own work conducted under the supervision of **Dr. (Name of the Supervisor)** and the  
co- supervision of **Dr. (Name of the Co-supervisor)** approved by the Research Degree  
Committee of the University and that I have put in more than 200 days/ 600 hrs of  
attendance with the supervisor.

I further declare that to the best of my knowledge this thesis does not contain any part of any  
work which has been submitted for the award of any degree either by this university or by  
any other university/ deemed university without a proper citation.

(Signature of the candidate)

Name:

Registration Number:



APPENDIX -2

CERTIFICATE OF THE SUPERVISOR / CO- SUPERVISOR

It is certified that this work entitled “..... **(In bold running letters)** .....”is an original research work done by Shri/ Smt. / Km. ....under my supervision for the degree of Doctor of Philosophy in .....to be awarded by Shri Jagdishprasad Jhabarmal Tibrewala University, Jhunjhunu, Rajasthan, India and that the candidate has put the attendance of more than 200 days/600 hrs with me.

To the best of my knowledge and belief this thesis

- I. embodies the work of candidate himself / herself,
- II. has duly been completed,
- III. fulfils the requirements of the ordinance related to Ph.D. degree of the University and
- IV. it is upto the standard in respect of both content and language for being referred to the examiner.

Signature of the Supervisor  
(with stamp)

Name : Dr.....

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### Format for Publication of Research Paper

**Title:**

**Name of Author:**

**Affiliation**

1. The name of JJT University, Jhunjhunu, Rajasthan, India must be given by putting on the name of scholar.
2. Guides affiliation can be the place of working of the guide.
3. Other affiliation if any

Rest format of Research paper should be the same as proposed by concerned journal

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### APPENDIX - 3

(On Rs. 100 non-judicial stamp paper with notary attested)

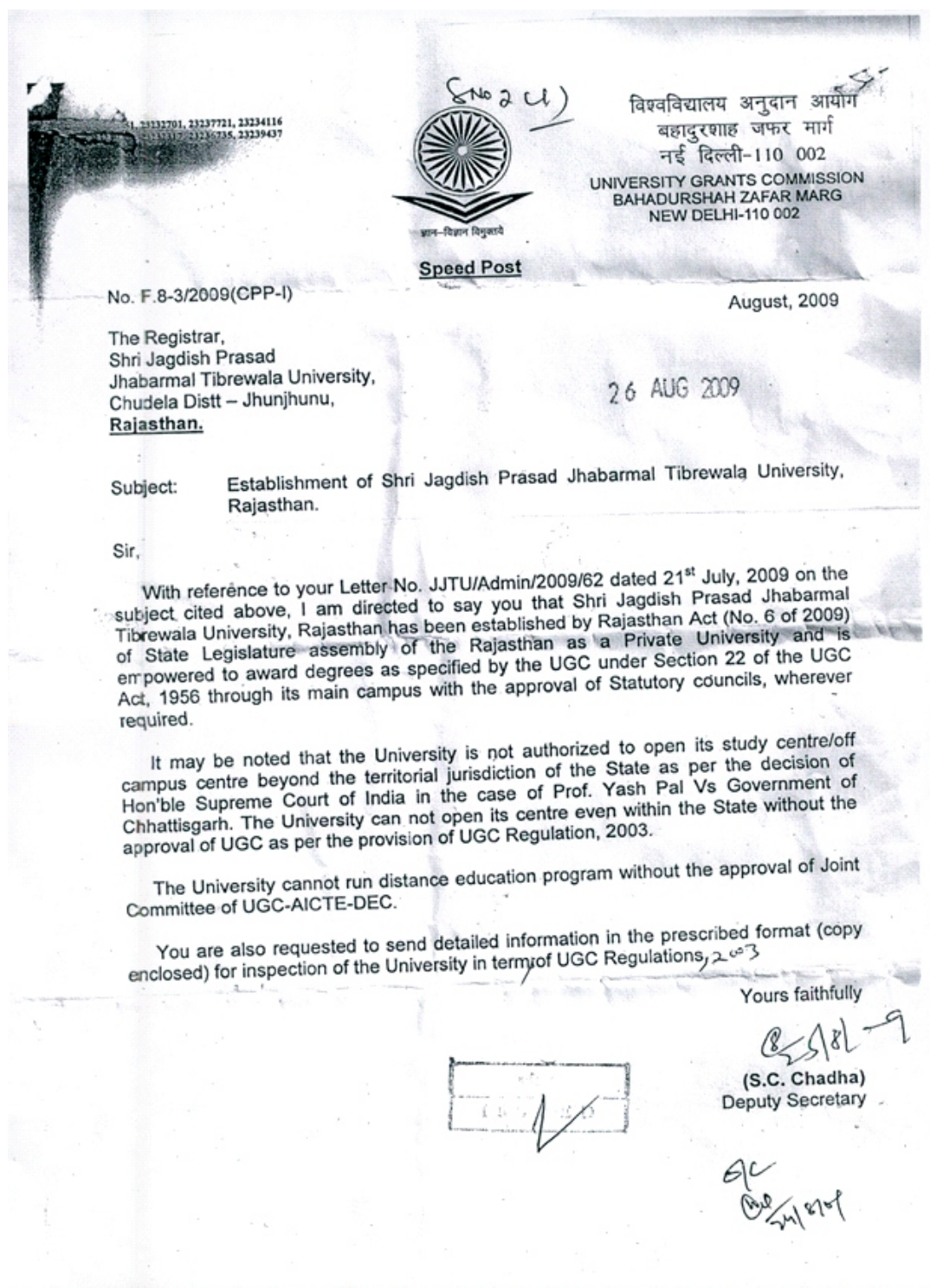
#### AFFIDAVIT

I, ..... (Name of the candidate), the Ph.D. scholar at the Reg. no. ....  
in (Subject) ..... thesis entitled “..... **(In bold running letters)**” ....  
under the supervision of **Dr. (Name of the Supervisor)** and the co- supervision of **Dr.**  
**(Name of the Co-supervisor)** approved by the university, solemnly affirm that the thesis  
submitted by me is my own work. I have not copied it from any source.  
I further say that if any copy paste is found anywhere in my thesis at a later stage, the thesis  
can be cancelled and the degree withdrawn.

(Signature of Candidate)

Think Ph.D. Join JJTU

*Notes*



## Think Ph.D. Join JJTU

8695  
24/5/14

प्रो. डी. एस. चौहान  
महासचिव (अतिरिक्त प्रभार) एवं  
कुलपति  
जी० एल० ए०, विश्वविद्यालय, मथुरा  
**Prof. D.S. Chauhan**  
Secretary General (Addl. Charge), and  
Vice-Chancellor  
G L A University, Mathura



**भारतीय विश्वविद्यालय संघ**  
ए० आई० यू० हाउस, 16, कॉमरेड इंद्रजीत गुप्ता मार्ग, नई दिल्ली-110 002  
**ASSOCIATION OF INDIAN UNIVERSITIES**  
AIU HOUSE, 16, Comrade Indrajit Gupta Marg, New Delhi 110 002

MEET/GC/324/2014  
May 19, 2014

Dear Shri Mehta,

The Governing Council of the Association of Indian Universities at its 324<sup>th</sup> Meeting held on April 24, 2014, at New Delhi considered the application for grant of provisional membership of the Association of Indian Universities (AIU) to Shri Jagdishprasad Jhabarmal Tibrewala University, Jhunjhunu and resolved to grant the same with effect from the year 2014-15.

I am enclosing a copy of the conditions for granting provisional membership, approved by the General Body of the Association at its 84<sup>th</sup> Annual Meeting (Business Session) held on November 14, 2009 for your kind information (Annexure-I). I am enclosing some literature describing various activities of the Association which I am sure you will find useful. You are also requested to send your bio-data on the enclosed proforma for our records. You are requested to send annual membership subscription of ₹.10,000/- processing fee (one time) through demand draft favouring "Association of Indian Universities", New Delhi.

With regards,  
Yours sincerely,  
  
(Prof D S Chauhan)

Encl: As above.

Shri Avinash Mehta  
Vice Chancellor  
Shri Jagdishprasad Jhabarmal Tibrewala University  
Churu Buishau Road  
Chudela  
District Jhunjhunu  
Rajasthan 333 001  
[srss1986@yahoo.co.in](mailto:srss1986@yahoo.co.in)

Phone : 91-11- 23236105 (O); Fax: 91- 011- 23232131; e-mail : [sgoffice@aiuweb.org](mailto:sgoffice@aiuweb.org)

## Think Ph.D. Join JJTU

### EXCELLENCE AWARDS IN Ph.D.



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