



Regulations for the Research leading to Doctor of Philosophy (Ph.D)

{All cases registered before the date effectiveness of this rules will be governed by earlier rules. However the mandatory requirements laid down by the UGC Regulation 2009 shall be fulfilled for obtaining the required endorsements in the Degree}

Rules for the Degree of Doctor of Philosophy (Ph.D) are framed as per the University Grants Commission's minimum standards and procedure for the awards of Ph.D Degree Regulation 2016.

The Ph.D. Programme of Jharkhand Rai University, Ranchi, offers research programmes in different subjects and in inter-disciplinary areas leading to a degree of Doctor of Philosophy. Jharkhand Rai University aims at providing high quality training to the Research Scholars to become distinguished academicians, consultants and researchers.

1. Definitions

- 1.1** “**Research**” means systematic study or investigations in order to discover new knowledge in the form of facts/ patterns or new interpretation of ideas or inventions of new ideas.
- 1.2** “**Doctor of Philosophy (Ph.D)**” signifies that the awardee of the degree has undertaken a substantial piece of original research, which has been conducted and reported by the holder under proper academic supervision, and in research environment for a prescribed period.
- 1.3** “**Research Scholar**” means a candidate who is admitted to Ph.D programme of Jharkhand Rai University, Ranchi, through the procedures adopted by the University.
- 1.4** “**Supervisor/ Research Guide**” means a member of the faculty(Full time) of Jharkhand Rai University or associated as Part time faculty on a temporary basis, who Supervises the research work carried out by the Research Scholar for Ph.D. Eligibility of the Research Guide/Supervisor is as below:
 - 1.4.1** Research Guide / Supervisor having minimum of two years of teaching/industrial experience, with Ph.D. degree in the relevant subject/discipline with at least one paper published in standard research journal or presented atleast two papers in National seminar may be recognized as Guide/Supervisor with the approval of RC.

- 1.4.2** Research Guide / Supervisor should give his / her consent for the guide-ship in writing along with his / her bio data.
- 1.5** “**Co-Supervisor**” means a person who may or may not be a member of the faculty of Jharkhand Rai University, but is recognized by RC to Supervise the research work of the scholar.
- 1.6** “**Research Council**” is the apex body that administers the research programmes of the University. The Vice Chancellor of the University constitutes the committee and shall be the Chairperson of this committee The committee constitutes of the Vice Chancellor, Registrar Nominee in the relevant subject, Board of Studies in the concerned subject, HOD/Dean of the concerned faculty, Research Guide of the Scholar.
- 1.7** “**Admission Committee**” is constituted for the selection of Ph.D. Scholars.
- 1.8** “**Allocation Committee**” This Committee constitutes of all the faculty members eligible to guide in that Department, Head of the Department of the concerned Faculty, Dean, Vice Chancellor or Vice Chancellor’s nominee in the relevant faculty.

2. Duration of the Ph.D Programme:

- 2.1** Ph.D. programme shall be for a minimum duration of three years, including course work and a maximum of six years.
Part-time Ph.D. will be allowed provided all the conditions mentioned in the extant Ph.D. Regulations are met.

3. Fee of the Ph.D Programme:

The fee structure for the Ph.D will be as prescribed by the University authorities from time to time. Fees once paid will not be refunded.

4. Admission and Registration for the Ph.D Programme:

4.1 Eligibility for Admission for Ph.D

For admission to the Ph.D programme in a related subject in the faculty, applicants fulfilling the following criteria shall be treated as eligible :

- 4.1.1** Research Scholars (Indian / Foreigner) having Post Graduate Degree (Masters Degree or equivalent) in the appropriate field with at least 55% marks or equivalent Grade Point Average (GPA) from any UGC recognized University, (relaxation for SC/ST/OBC/PH students as per Central Govt. rules) Further relaxation in special cases is subject to discretion of the Vice-Chancellor.

- 4.1.2 Bachelor's Degree in Engineering/ Technology or any other discipline of at least four years after 10+2 with 60% and above marks in aggregate and a minimum of 10 years experience in an Institution/ University/ Industry/Government organization.
- 4.1.3 The members of the Institute of Chartered Accountant/ or Institute of Cost and works Accountants and / or having qualification of Institute of Company Secretaries of India shall be considered eligible for registration for Ph.D in any subject in the faculty of Commerce and Management provided that they possess a Bachelor's Degree from any UGC recognized University.
- 4.1.4 Research Scholars with exceptional abilities who have passed Graduate Degree Examination with 55% of Marks and with 15 years experience after graduation in related field.
- 4.1.5 Research Scholars for research in inter-disciplinary areas/ allied subject, satisfying point 4.1.1 above and from applicants belonging to a faculty or subject other than the faculty or subject in which the research is proposed to be done and from international Scholars (those who have not obtained the Master's degree or equivalent from Indian Universities) shall be considered on the basis of the proven ability and aptitude of the researcher for such kind of research. The decisions in this regard shall be taken by the concerned Research Council after presentation by the Research Scholar. In such cases, the guide should be from the subject in which the Research Scholar has completed his/her Master Degree and the Co-guide from the allied subject. The guide and co-guide for one particular thesis may or may not be from same subject.
- 4.1.6 Research Scholars who has atleast 7 Years experience of research or teaching experience of 5 Years may be permitted to get registered for Ph.D degree, even if he / she does not possess 55% marks at the Postgraduate degree. (Subject to discretion of the Vice-Chancellor)

4.2 Exemptions for Entrance Examination:

The Research Scholars fulfilling one of the following conditions will be exempted from Entrance Examination:

- 4.2.1 Qualified in SLET/NET/JRF/CSIR/GATE examinations.
- 4.2.2 Persons with exceptional abilities/Senior Citizens as mentioned in 4.1.4 (Subject to discretion of Vice-Chancellor).
- 4.2.3 Passed M.Phil, M.Tech from statutory University. However they have to qualify in the interview conducted by the University for admission to Ph.D programmes.

- 4.2.4 Teachers having 5 years regular (unconditional approval) teaching experience at Secondary, Senior Secondary, U.G. and P.G. level. (subject to discretion of Vice-Chancellor.)

4.3 Admission and Registration Procedure:

- 4.3.1 A Research Scholar fulfilling the minimum eligibility criteria as specified in point (4.1), can fill and submit the application form along with the admission fee in cash/DD in favor of the University and the required testimonials.
- 4.3.2 The Admission Committee, as mentioned in (1.7) shall scrutinize the academic, professional and research potential of the Research Scholars. The Research Scholars who are eligible as per the above criteria mentioned in point (4) will have to appear for an Entrance Examination devised and conducted by the University. Refer Annexure 2- Guidelines for the Entrance Examination. Merely qualifying the entrance test will not post-facto entitle a candidate to get him / her registered for Ph. D in the department concerned, if he/she does not fulfill the minimum marks criteria.
- 4.3.3 The Scholars who qualify through the Entrance Examination or who are exempted under provision (4.2), shall have to appear for an interview before the Allocation Committee, as mentioned in (1.8), constituted for the allocation of the Research Guide/ Supervisor as mentioned in Annexure 1. Once the allocation of the research Guide is done to the Research Scholar by the University the validity of the allocation of that respective Guide will be six (6) months from the date of allocation, If the Research scholar fails to appear before the RC for synopsis presentation within stipulated period the University reserves the right to cancel the allocation .Reallocation of guide will be done only after the Research Scholar deposits the processing fee to the university.
- 4.3.4 After allocation of the Research Guide, an eligible Scholar seeking admission to the Ph.D programme shall submit 6 copies of his/her Ph.D research proposal (outline) through his/her allocated Research Guide.
- 4.3.5 The Research scholar shall be required to make a brief presentation of his/her research proposal before the Research Council (RC) as mentioned in (1.6). During the Presentation, the Research Scholar is expected to discuss his / her research interest/ area.
- 4.3.6 The date of meeting of the committee for the presentation shall be communicated at least 15 days in advance by letter / fax/ email to the selected scholars.
- 4.3.7 The Research Council (RC) will evaluate and prepare a report on the basis of the presentation. In case of any suggestions given by the

committee for improvement in the topic of the research, the research scholar shall make changes accordingly in the research proposal (research outline) within one month from the presentation. On the recommendation of the Head of the concerned University Department, & Dean of the concerned faculty will approve the revised research outline before confirming the registration for the Ph.D programme.

- 4.3.8 Once the registration is confirmed, it is valid for 6 years. Extension up to a maximum period of 2 years shall be given only if considerable work has been

done by the Research Scholar. The Research Scholar concerned must submit the application to RC for extension through his/her guide and the Head of the Department of the concerned faculty, at least 2 months before the expiry of the registration period. On the basis of the recommendation of the Dean of the concerned faculty, Vice-Chancellor will grant the extension up to 2 years.

- 4.3.9 No Research Scholar shall be allowed to simultaneously register for the Ph.D or for any other degree course in the same or different University.

5. Part-time/Full-time Research

- 5.1.1 Registration may be granted to all resident scholars on full-time basis and to employed persons on part-time basis.
- 5.2.2 Teachers of Colleges and Schools and permanent employees of government/Private/business firms who are eligible for Ph.D. admission may be granted part-time registration.
- 5.3.3 A fulltime registration may be converted into part time, after the completion of one year or when the candidate is declared to have successfully completed the course work.

6. Pre-Ph.D Theory Course Work:

- 6.1 The Pre-Ph.D. Theory Course Work is compulsory for all the Research Scholars registered for Ph.D. For details refer Annexure 3.
- 6.2 A scholar admitted to the Ph.D programme shall be required to undertake and complete specified course work for a minimum period of one semester i.e., six months.
- 6.3 Any scholar with an M.Phil degree may be exempted from course work which he / she has completed during the M. Phil study.

7. Change in the Topic of Research of Ph.D Programme:

- 7.1 A Research Scholar may be allowed to change the title of his/her research work subject to approval of Research Council and provided he/she applied for the change at least six months before the anticipated date of submission of

his/her thesis or earlier. The Research Scholar shall submit his/her application duly recommended by the Research Guide.

7.2 If the change in the title of the topic of research involves an altogether different topic from what he/she was registered, the Research Scholar shall not be allowed to submit his/her thesis unless he/she works for a period of two years i.e. for the minimum period prescribed for Ph.D. study from the date of approval of the new topic by Research Council (RC).

7.3 The title of the topic of research for the experimental science subjects (i.e. Science, Engineering and Technology, Pharmacy) may not be the title of the thesis. If the title

of thesis does not match with the title of topic of research, then the Research Scholar shall have to submit his/her application, duly recommended by Research Guide for the approval of the Vice-Chancellor.

8. Additional Ph.D Degree:

8.1 A Research Scholar seeking admission for the additional Ph.D degree within the same subject, need not appear for the Entrance Test and Pre – Ph.D theory course work.

8.2 A Research Scholar seeking admission for the additional Ph.D degree other than the subject in which the Research Scholar has been previously awarded, the Research Scholar shall have to appear the for entrance test and complete the Pre – Ph.D theory course work in the subject for which the Research Scholar wish to register for the Ph.D degree.

9. Independent Research without Guide:

9.1 If the research guide in the concerned subject is not available in the jurisdiction of University and / or the Research Scholar wish to work independently, he/she may not be allowed to register for Ph.D without Research guide/ Supervisor provided that the Research Scholar should fulfill the following conditions :

9.1.1 The Research Scholar should satisfy the eligibility criteria mentioned in 4.1.

9.1.2 The Research Scholar should qualify the Entrance Examination for admission to Ph.D. degree devised and conducted by the University.

9.1.3 In case of eminent persons exemption may be granted by the Vice Chancellor.

9.1.4 The Research Scholar should successfully complete the Pre – Ph.D theory course work. In case of eminent person, exemption may be granted by the Vice Chancellor.

10. Place of work:

10.1 Normally a Research Scholar has to work under the guidance of recognized guide at the place recognized by the University.

10.2 In case a Research Scholar works at some other place than the guide's place, then on the recommendations of the Guide(s), the University may allow the research work for the Ph.D. degree to be partially or wholly carried out at another organization / institute, under the guidance of a recognized guide from the same institute approved by the RC.

11. Monitoring the Progress:

11.1 All the registered Research Scholar shall be required to submit a progress report of the work through their Research Guide and Co – Guide at least once in a Year before the RC and adhere to the remarks of the Committee to show further progress before the submission of the synopsis and thesis.

11.2 The Research Council (RC) shall evaluate the progress of Ph.D. work of the Research Scholar and upon their satisfaction shall recommend continuation of his/ her work. If RC is not satisfied with the progress of research work may recommend termination of registration. {ANNEXURE 5}

12. Leave Rules:

A Research Scholar may avail himself / herself of a maximum period of one year leave during his / her research period within the maximum period fixed for the submission of his / her thesis. But he / she is not eligible for leave during the period of extension.

However a Research Scholar may avail himself / herself of leave in any extraordinary circumstances such as maternity. Medical leave may be granted with the prior approval of the Registrar on the recommendation of the Research Supervisor and the HOD.

13. Publications

Every research scholar should publish at least two research paper in refereed journal and make two presentations in conferences/seminars in the area of his/her research before the date of submission of his or her thesis to the university and produce evidence for the same in the form of presentation certificates and/or reprints.

14. Submission and Evaluation of Thesis:

14.1 Submission of Synopsis:

14.1.1 Guidelines for preparation of the synopsis is given in Annexure 4.

14.2 Submission of Thesis:

- 14.2.1 The thesis can be submitted after three years from the date of Registration and not later than six years.
- 14.2.2 If a Research Scholar fails to submit the thesis within six years from the date of Registration, maximum of two extensions of one year each may be given with approval from the RC after which the registration will stand cancelled. Then, he / she shall submit the synopsis again based on the recommendations of the Research Council.
- 14.2.3 Prior to submission of thesis, the Research Scholar shall make a pre-submission presentation before the RC.
- 14.2.4 The Pre-Ph.D presentation may be open to all faculty members and Research Scholar, for getting feedback and comments which may be suitably incorporated under the advice of the research guide.
- 14.2.5 A Research Scholar shall submit six copies of his / her thesis along with a certificate from the supervisor that the work done by the Research Scholar is original and is consistent with the approved synopsis.
- 14.2.6 Two copies of the thesis shall be placed, one in the University Library and another with the Research Department. An e-copy will be sent to National Library. One copy of the thesis will be placed in the inflienet after the award of the Ph.D. degree.
- 14.2.7 Every Research Scholar shall submit with his/her thesis a Certificate from the Supervisor and a Declaration form by the Research Scholar that the work reported in the thesis has been carried out by the Research Scholar himself/ herself and that the material from the other sources, in any, is duly acknowledged.
- 14.2.8 At the time of submission of the thesis, every scholar shall pay a Ph.D thesis examination fee at the prescribed rate. The fee once paid shall not be refunded.
- 14.2.9 The Research Scholar shall be allowed to submit his / her thesis after the completion of a period of three years from the date of Registration of the synopsis, and in case of expiry of six years, the Research Scholar will have to pay the prescribed fine for the late submission. Late submission of thesis shall be allowed with fine up to the completion of one year from the date of expiration of six years from the date of Registration.
- 14.2.10 Guidelines for the preparation of the thesis are given in Annexure 7.

14.3 Appointment of the Examiners :

- 14.3.1 The procedure for the appointment of examiners shall be undertaken soon after the Research Scholar submits his/ her Thesis.

- 14.3.1 The Guide will prepare a panel of eight persons qualified to examine the thesis and send the list to Dean (Academics) of the University. From this panel, the Vice Chancellor will appoint two examiners (one from outside the state and the other from within the state of Jharkhand), to whom the thesis will be sent for evaluation.
- 14.3.2 The Guide of the Research Scholar shall be the Internal examiner. In case of a Research Scholar working independently, the Vice Chancellor shall recommend the name of recognized research Guide who shall be the Internal examiner.

14.4 Evaluation of the Ph.D Thesis

- 14.4.1 The thesis shall be sent for evaluation to the external and the internal examiners. A maximum of three months time shall be given to the examiners for sending the report, failing which the Vice-Chancellor may appoint alternate examiner(s).
- 14.4.2 The examiners shall clearly recommend whether the thesis should be:
(a) approved/ (b) resubmitted after revision/extension of work/(c) Rejected.
- 14.4.3 If all three examiner(s) including supervisor, approve the thesis, the viva-voce examination will be conducted.
- 14.4.4 If one examiner approves the thesis and other examiner recommended for revision, the viva-voce examination may not be held. However, the comments of the examiner recommending revision shall be sent to the supervisor and the clarifications of the Research Scholar will be submitted before the examiner who have recommended corrections. Only then viva voce will be held.
- 14.4.5 If one examiner approves the thesis and other examiner rejects the thesis, the thesis shall be sent to the third examiner to be appointed by the Vice Chancellor. If third examiner approves the thesis, the viva-voce examination will be held.
- 14.4.6 If both the examiners recommend revision, the Research Scholar shall be asked to revise the thesis.
- 14.4.7 If both the examiners reject the thesis, the thesis shall be rejected.
- 14.4.8 Registration of the Research Scholar will be automatically cancelled if he /she fails to submit yearly progress reports or fails to submit Ph.D. thesis within six years from the date of registration.

15. Viva voice and Defense of Thesis:

- 15.1 After the thesis has been recommended by both the examiners for award of Ph.D degree, the report of the examiners will be made

available to the guide (s) by the Academic Dean and the scholar shall be asked to appear at a Viva-Voce examination.

- 15.2 The Viva-Voce will be conducted by at least two examiners, one external examiner and Guide. (In case of Joint Guides, one will be ordinarily present).
- 15.3 The day, date, time and the place for the Viva-Voce and the defense of thesis shall be notified by the Research Department atleast Fifteen days in advance.
- 15.4 Normally the Viva-Voce and the defense of the thesis shall be arranged in the University. In exceptional cases, the Vice Chancellor may allow the Viva-Voce to be conducted at a place of research outside the University. In such a case the procedure and norms for the conduct of Viva-Voce, payments, etc. shall be as laid down by the University.
- 15.5 The defense of the thesis shall take place in the presence of one panel examiner and the RC, who shall jointly evaluate the performance of the Research Scholar. In case of dispute, Dean (Academics), shall take an appropriate decision in favor of the Research Scholar.
- 15.6 If the external referee is not able to be present at the time of the defense,
the Vice Chancellor on the recommendation of the guide and the Dean (Academics) shall appoint a senior research guide to act as an examiner for the Viva-Voce.
- 15.7 The examiner present for the Viva-Voce and the defense of the thesis shall submit their final consolidated report about the award of the Ph.D. degree immediately after the defense is over.
- 15.8 In case of Research Scholar doing an independent research without any Guide, the Viva -Voce will be organized by the recommendation of Research Department and will be conducted by two external experts recommended by Dean (Academics).
- 15.9 In case the defense is not satisfactory, the examiners can unanimously recommend that a fresh viva-voce and defense of the thesis be organized within period of not less than one month.
- 15.10 Research Scholar shall be required to pay a Ph.D Viva -Voce Fee for Re-appearing in the Viva Voce and / or practical examination at the prescribed rate on or before the date of the said examination. The fees for re-appearing at the Vive-Voce and / or Practical Examination shall be the prescribed Viva-Voce fees.
- 15.11 Video Conferencing facilities may be permitted for special cases.
- 15.12 If the thesis is recommended for the Award of the Ph.D degree to the Research Scholar, the first copy of the thesis will be deposited in the University library, the second copy will be kept in the RC, and the third copy will be returned to the Research Scholar.

16. Award of the Doctorate (Ph.D.) Degree

16.1 The recommendation of the Viva – Voce Board shall be placed before the RC for approval.

16.2 The final result shall be officially declared by the Controller of examination within 8 working days from the date of the receipt of the favorable report on the defense of the thesis.

16.3 The degree shall be awarded by the RC of the University on the recommendation of the Academic Council. The announcement of the award shall be made by the Vice Chancellor.

17. Confidentiality and the copyright of thesis :

17.1 The confidentiality of the content and the copyright of the thesis shall lie with the University as per the Copyright Act, 1968.

17.2 Should the author of the thesis or the Supervisor wish to publish the matter in the form of a book the author and the supervisor shall obtain clearance from the RC of the University.

18. Depository with UGC

18.1 Following the successful completion of the evaluation process and before the announcement of the award of Ph.D., the University shall submit an electronic copy of the Ph.D. thesis to the INFLIBNET, for hosting the same so as to make it accessible to all Institutions / Colleges.

18.2 The University shall issue a Provisional certificate, certifying that the Degree has been awarded in accordance with Regulations issued by UGC of India published on 5th July 2016 and subsequent the Gazette as per the Notification dated 5th May 2016.

19. Collaboration for Research

19.1.1 Any teaching department can enter into an agreement with an outside research institution or an approved research center for carrying out collaborative research.

19.1.2 A Memorandum of Understanding (MOU) shall be signed between the University and the proposed research institution for the purpose.

19.1.3 The teaching department shall take the initiative for such strategic alliances with research institutions with the permission of University.

19.1.4 Such collaboration shall be entered into only with institutions of high

reputation which will enhance the image of the University and gives the researchers of the University access to resources and facilities that are not adequately available on the University campus.

20. Any other item significant to research in this university and has not appeared under the above clauses, may be ruled by the decision of the vice-chancellor.

Jharkhand Rai University, Ranchi

Annexure 1.

Allocation of the Research Guide/Supervisor or Co-Guide:

- a) The allocation of Research Guide shall not be left to the individual Research Scholar or Guide. This allocation shall be done by the Research Council depending on the availability of seats with Research Guide and willingness of the Research Guides to accept the Research Scholar.
- b) A Research Supervisor/co-supervisor who is Professor, at any given point of time, cannot guide more than Eight (8) Ph.D. scholars. An Associate Professor as Research Supervisor can guide up to a maximum of six (6) Ph.D. scholars and an Assistant Professor as Research Supervisor can guide up to a maximum of four (4) Ph.D. scholar.
- c) Relative of the research scholar will not be permissible to be a Guide/ Supervisor or Co-Guide.
- d) Only a full time regular faculty of the University can act a supervisor, the external supervisors are not allowed. However, Co-supervisor can be allowed in interdisciplinary areas from other departments of the same institute or from other related institutions with the approval of the RC.

Annexure 2

Guidelines for the Entrance Examination:

- a) The Entrance Examination for Ph.D will be compulsory and will be conducted by the University.
- b) An Entrance Test shall be qualifying with qualifying marks as 50%. The syllabus of the

Entrance Test shall consist of 50% of Research Methodology and 50% shall be Subject specific.
- c) Question Papers will be set and evaluated by a board to be constituted by RC or the HOD / Dean.
- d) An interview shall be organized by the University to discuss the research interest/ area of the candidate.

Annexure 3

Pre-Ph.D. Theory Course Work and Evaluation:

1. Pre – Ph.D Course Work

- a. There will be three papers. Each paper shall be of 04 credits which imply that there will be total of 12 credits. Total marks in each paper shall be 100 marks .

Paper 1 - Research Methodology (as per UGC recommendation)

Paper 2 – Basics and Fundamentals of the Subject at
Master Level/Relevant Subject..

Paper 3 - (A) Basics of computers and scientific communication.
(B) Review writing and presentation/Publications/
Seminars.

The bifurcation of these credits is as under :

Course No.	Contents	Credits
01	Paper I - Research Methodology. (100 Marks)	04
02	Paper II -Basics and Fundamentals of the subject at Master Level. (100Marks)	04
03	Paper III – (A) Basics of computers and scientific communication.-(60 Marks)	04

	(B) Review writing and presentation /Publications/ Seminars.- (40 Marks)	
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- b) The subject-wise syllabi for Pre-Ph.D.\Theory Course Work shall be decided by Board of Studies and Faculties and same shall be notified.
- c) If found necessary, course work may be carried out by the Research Scholars in sister department/ Institutes, either within or outside the University, for which due credit will be given to them (as per UGC Regulation 2016).
- d) A Research Scholar will have to complete Pre Ph.D theory course work within one year in the respective / Department of the University only.
- e) Preparation of question paper and evaluation of the scripts/ dissertation/ projects etc will be done by the Faculty members appointed by the RC.
- f) The final result of the Pre-Ph.D. theory course work shall be submitted to the RC for the Evaluation.

2. Evaluation of the Pre-Ph.D Course work :

- a) The evaluation of the Pre- Ph.D course work shall be divided into two parts viz Internal Assessment and University Examination with a weightage ratio of 50:50.
- b) Minimum marks for passing in the Internal Assessment and University Examination for pre Ph.D theory course work shall be 55% .
- c) The Evaluation of the Pre-Ph.D course work is done by Research Council (RC).

Annexure 4

Jharkhand Rai University,Ranchi

MANUAL FOR PREPARATION OF Ph.D. SYNOPSIS (Prescribed Format and Specification)

1. GENERAL:

The synopsis is to be considered as proposed summary of the work with important results highlighting the original contributions in the research work to be submitted

2. NUMBER OF COPIES TO BE SUBMITTED:

Seven hard copies and one soft copy in a properly labeled CD are to be submitted to the University.

3. SIZE OF SYNOPSIS:

The size of synopsis should be 7-15 pages of 1 ½ spacing on A4 size good quality white paper preferably not lower than 80 gsm.

4. LAY OUT OF SYNOPSIS:

- Cover Page & Title page with details of the Research Scholar and Supervisor.
- Introduction
- Statement of Problem
- Review of Literature
- Objectives the study
- Significance of the Research
- Hypotheses of the study (if required)
-

Research Methodology

- Tentative Chapterization of Research work
- Bibliography
- Signature of the Research Scholar and Supervisor.

5. TYPING INSTRUCTIONS:

- The font of the synopsis should Times New Roman in size 12 and should have the margins of 2.54 cm on each side.

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DECLARATION

I hereby declare that the synopsis
entitled”

.....
.....
.....”

to be submitted for Registration into the Doctor of Philosophy Program of Jharkhand Rai University is my original work and the same has not formed the basis for the award of any degree, diploma, associate ship or fellowship of similar other titles. It has not been submitted to any other University or Institution for registration and award of any degree or diploma.

Place:

<<Signature of the candidate>>

Date:

<<Name>>

Annexure 5

Progress Report for PhD scholars

1. Name of the Research Scholar:	
2. Registration number:	
3. Date of Registration:	
4. Subject:	
5. Name of the Supervisor:	
6. Title of Thesis:	
7. Progress report for the session:	
8. Research activities performed in the last one year (Mark a tick in the box provided)	
1. Course work Classes Attended <input type="checkbox"/>	2. Appeared in Course-work Examination <input type="checkbox"/>
3. Pre-Submission Seminar defended <input type="checkbox"/>	4. Thesis Submitted/Defended <input type="checkbox"/>
9. Brief summary of the research work carried out in last one year (Attach as Annexure if required)	
10. Research Papers Published in the refereed/national/international journals in last one year	
1.	
2.	
3.	

11. Research Papers Published in Conference Proceedings / Seminars / Symposium in last one year
1.
2.
3.
12. Conferences/Seminars/workshops attended in the last one year
1.
2.
3.
13. Any other achievements (Please attach separate sheets if required.)

It is certified that all information mentioned in the Annual progress report is correct to best of my knowledge.

Date:

Full Signature of the Applicant

Full Signature of the Supervisor

Note: 1. The Annual Progress reports will be placed before the RC of concerned discipline for approval. The report and further recommendation will be kept in the personal file of the candidate. In the case candidate who does not submit the progress report within the stipulated time, the RC may recommend suitable action.

2. Scholars are required to make sure that all their outstanding dues are cleared before submission of the progress report.

Annexure 6

Fee Break-up:

Note: University reserves the right to revise the fee structure without any prior notification. Effective from January 2017.

Fee Component	Total Amount (in Rs.)
Ph.D Application Form Fee	1,000
Processing Fee	3,000
Admission Fee	20,000
Research Fee Payable into Four Equal Instalments Payable at beginning of each semester.	50,000
1	
2	50,000
3	50,000
4	50,000
Thesis Evaluation Fee (Payable on 22nd month from the date of approval of the Topic)	50,000
Late Fine	(If Applicable)
Grand Total	2,74,000

Other Fees Components	Amt (in Rs.)
Guide Reallocation Processing Fee	3,000
Late fees (per month)	2,000

Note: Extension beyond the maximum period of six years will be granted for one year at the first instance for which Semester Fee will be chargeable. During the second year of extension same provision will be applicable.

Annexure 7

Thesis Guidelines

Guidelines for the Thesis:

1. The **final thesis** shall be presented in accordance with the following specifications:
 - a) Each thesis should be typed on white bond paper of Standard A4 size. Margin of at least 3.5 cm on left side, 2.0 cm on right side, 3.0 cm on the top and 2.5 cm on the bottom should be kept. Font New Times Roman and font size of 12 should be used with double spacing on both sides of the sheet. Thesis should have minimum of 150 pages and should not exceed 350 pages.
 - b) Five copies of the thesis are to be submitted to the University.
 - c) Pages should be numbered consecutively and clearly.
 - d) The thesis should be in compact bound form along with two soft copies in the PDF format.
 - e) All bounded copies must have the title of the thesis, name of the University, degree, name of the Research Scholar, place of the research work, and the month and the year of submission shall be printed on the title page and the front cover.
 - f) Bibliography and references must be given at the end of the chapters. The bibliography shall contain the details of the books, magazines excerpts from the journals and magazines which have accreditation at the national and International levels. The references shall contain exclusively, the details from the research papers published in reputed journals of national and international standards.
 - g) The reprints of the research articles published by the candidate should be annexured at the end.
 - h) The thesis shall be written in English/Hindi. In the faculty of Science, Engineering and Technology the thesis should be preferably in English language. Where the research work is undertaken in language & literature, the thesis shall be written in the respective language.
 - i) Page Numbering
 - (i) Beginning with the first page of the text in the thesis (chapter 1), all pages should be numbered consecutively and consistently in Arabic numerals through the appendices.
 - (ii) Page numbers prior to Chapter 1 should be in lower case Roman numerals. The title page is considered to be page (i) but the number is not printed.
 - (iii) All page numbers should be placed without punctuation in the upper right hand corner, 12 mm from the top edge and with the last digit even with the right hand margin.
 - j) Tables, Figures and Equations
 - (i) All the tables (tabulated data) and figures (charts, graphs, maps, images, diagrams, etc.) should be prepared, wherever possible, on the same paper being used to type the text. They should be inserted as close to the textual reference as possible.
 - (ii) Tables, figures and equations should be numbered sequentially either throughout the thesis or chapter-wise using Arabic numerals. They should be referred to in the body of the text capitalizing the first letter of the word and number, as for

instance, Table 17, Figure 24, Equation (33), or Table 5.3, Figure 3.11, Equation (4.16), etc.

- (iii) If tables and figures are of only half a page or less, they may appear on the same page as text but separated above and below by triple line spacing. Font size for text should be the same as for the general text.
- (iv) Good quality Line Drawings/figures must be drawn using standard software that provides vector rather than bit-map graphics. Figures must be scalable.
- (v) Images, Photographs, etc. must be scanned in resolution exceeding 200d pi with 256 gray scales for the monochrome images and 24 bit per pixel for the color images.
- k) The thesis should be free from typographical errors.

2. Organisation of the thesis :

The thesis may be organized in the following manner;

- a) Title page
- b) Abstract should be submitted separately in bounded form
- c) Declaration by the Research Scholar
- d) Certificate of the Supervisor in the prescribed format
- e) Preface (if applicable)
- f) Acknowledgments
- g) Table of contents
- h) List of tables, figures and illustrations, abbreviations, symbols

3. Title page

The thesis must be preceded by a title page. The title page of the thesis should show:

- a) Title of the thesis at the top and centered
- b) Degree for which it is submitted: “Thesis submitted to Jharkhand Rai University for the award of the degree of Doctor of Philosophy in < Subject>”

i.e.

**“Thesis submitted to Jharkhand Rai University for the award of the degree of
Doctor of Philosophy in < Subject>”**

- c) Full name of the Supervisor
- d) Full name of the Research Scholar and his/her affiliation (Deptt./ centre / lab)
- e) Logo of Jharkhand Rai University
- f) Month and year.

(See Specimen – 1)

4. The thesis should generally consist of the following chapters mentioned in a precise manner. The Research scholar may adopt the following pattern.

- a) Introduction**
- b) Background // Review of literature**
- c) Procedure (Experimental / methods and materials etc.)**
- d) Analysis / Result (whichever is applicable)**
- e) Results & Discussion**
- f) Limitations and Future scope of the Study**
- g) References/Bibliography**
- h) Annexures**
- 5. Literature Citation**

The references should appear as a consolidated list at the end of the chapters with proper

indexing, with references listed either alphabetically or sequentially as they appear in the text of the thesis.

Reference Format

Referencing should contain the following information: authors, title, name of journal, volume number, page numbers and year.

Referencing an article published in a book, should contain, authors, the title of the book, editors, publisher, year, page number of the article in the book being referred to.

Samples:

Journals

H.E. Exner, "Physical and Chemical Nature of Cemented Carbides," *International Metals Review*, 1979, v. 24, pp. 149-173.

Conference Proceedings

H.F. Fischmeister, "Development and Present Status of the Science and Technology of Hard Materials," *Science of Hard Materials*, R.K. Viswanadham, D.J. Rowcliffe, and J. Gurland (eds.), Plenum Press, New York, NY, USA, 1982, pp. 1-45.

Books

R.M. German, *Powder Injection Molding*, Metal Powder Industries Federation, Princeton, NJ, USA, 1990.

Thesis

J.L. Johnson, "Densification, Microstructural Evolution, and Thermal Properties of Liquid Phase Sintered Composites," Ph.D. Thesis, The Pennsylvania State University, University Park, PA, USA, 1994.

Technical Reports

E.G. Zukas, P.S.Z. Rogers, and R.S. Rogers, "Experimental Evidence for Spheroid Growth Mechanisms in the Liquid Phase Sintered Tungsten Based Composites," Informal Report: Los Alamos Scientific laboratory, USA, 1976, pp. 1-35.

Patents

V. Oenning and I. S. R. Clark, U. S. Patent No. 4988386, 1991.

Appendix or Appendices

- a) Supplementary illustrative material, original data, and quotations too lengthy for inclusion in the text or which is not immediately essential to an understanding of the subject can be presented in Appendix or Appendices (as Appendix A, Appendix B, etc.)
- b) Each appendix with its title should be listed separately in the table of contents. Likewise, tables and figures contained in the Appendices are to be included in the lists of tables and figures, respectively.

Impact of E-commerce on Business Values in Service Organizations

Thesis Submitted to

Jharkhand Rai University

For the award of the degree of

**DOCTOR OF PHILOSOPHY
IN
<Subject>**

Under the Supervision of

Research Supervisor
Prof.<Name>

Research Supervisor
Prof. <Name>

Submitted by
<NAME>



JHARKHAND RAI UNIVERSITY
JULY, 2015

CERTIFICATE – I

This is to certify that the thesis entitled“ ”
.....”

submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy is a genuine and bona fide research work carried out by Mr./Ms..... under my supervision and no part of the thesis has been submitted for any other degree.

All assistance and help received during the course of this Research work have been acknowledged.

Signature of Research Supervisor

Jharkhand Rai University, Ranchi
Month , Year