



JOY UNIVERSITY
semper paratus

**REGULATIONS FOR DOCTOR OF
PHILOSOPHY**

JANUARY 2026

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Ph.D. REGULATIONS 2026

PREAMBLE

The Degree of Doctor of Philosophy (Ph.D.) is awarded to a candidate who has submitted a thesis based on the original research carried out by him / her in any one particular discipline or involving more than one discipline that contributes to the advancement of knowledge, which is approved by duly constituted Board of Examiners and prerequisites as per UGC (Minimum Standards and Procedure for the Award of Ph.D. Degree) Regulations 2022. Hence, the degree awarded by Joy University complies with the UGC Regulations 2022.

1. DEFINITIONS

“Act” means the University Grants Commission Act, 1956 (3 of 1956).

“Grade Point” means a numerical weight allotted to each letter grade on a 10 – point scale.

“Course” means one of the specified units which go to comprise a programme of study.

“Course Work” means Courses of study prescribed by the School / Department to be undertaken by a student registered for the Ph.D. degree.

“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.

“Degree” means a degree awarded by the University in accordance with the provisions of section 22 (3) of the act.

“Commission” means the University Grants Commission established under section 4 of the UGC act 1956.

“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.

“Interdisciplinary Research” means research conducted by a Ph.D. scholar in two or more academic disciplines.

“External Examiner” means an academician / researcher with published research work who is not part of the University where the Ph.D. scholar has registered for the Ph.D. programme.

“Research Advisory Committee” means the committee constituted by the University to approve the research synopsis and the title, to review the periodical progress of a research scholar, and to perform any other functions that may be assigned to it by the University.

“Research Proposal” means a brief write-up giving an outline of the proposed research work which the Ph.D. scholar shall submit along with the application for registration for Ph.D. programme.

“Programme” means a higher education programme pursued for a degree specified by the commission under sub-section (3) of section 22 of the Act.

“Guide / Research Supervisor” means an academician / researcher recognized by the University to supervise the Ph.D. scholar for his / her research.

“Plagiarism” means the practice of taking someone else’s work and passing them as one’s own.

“University” means a Higher Educational Institution established under a Central Act, a Provincial Act, or a State Act.

2. ELIGIBILITY FOR ADMISSION

2.1 A Master’s degree / M.Phil. from any recognized university in the field of study.

Minimum eligibility is 55% marks or its equivalent CGPA.

2.2 Candidates working in Institutions / Industries / R&D Departments / National Laboratories / Units of Government / Quasi Government or any other research laboratories are permitted to register under the Part-Time category.

2.3 A relaxation of 5% marks shall be provided to the candidates belonging to Scheduled Caste (SC), Scheduled Tribe (ST), Other Backward Class (non-creamy layer), Differently-Abled (PwD), and Economically Weaker Section (EWS) categories.

2.4 **NURSING:** M.Sc. or M.Phil. Nursing with 3 years teaching or clinical experience after M.Sc. and 60 % marks in M.Sc.

2.5 **AGRICULTURE:** M.Sc. in the respective discipline with 60 % marks or 6.5 OGPA. For Scheduled Caste / Scheduled Tribe, Differently - Abled - 50 % marks or 5.5 OGPA.

3. CATEGORIES OF Ph.D. CANDIDATES

- 3.1 **Full Time (FT):** Candidates who pursue full-time study in Joy University.
- 3.2 **Part Time – Internal (PTI):** Candidates who are employed in Joy University and actively involved in teaching and research as part of their regular work.
- 3.3 **Part Time – External (PTE):** Candidates working in Institutions / Industries shall pursue their research in their place of employment and report to their respective supervisors as and when required.

4. DURATION OF THE PROGRAMME

- 4.1. A candidate shall work for a minimum period of **three (3)** years, including course work, and a maximum duration of **six (6)** years from the date of admission.
- 4.2. A maximum of an additional two years can be given through a process of re-registration as per the Statute / Ordinance of the University. However, the total period for completion of a Ph.D. programme should not exceed eight (8) years from the date of admission.
- 4.3. The woman candidates and persons with disability (more than 40 % disability) may be allowed an additional relaxation of two years. However, the total period for completion of a Ph.D. programme should not exceed ten (10) years from the date of admission.
- 4.4. Women candidates may be provided maternity leave / child care leave once in the entire duration of Ph.D. for up to 240 days.
- 4.5. A candidate can avail of a break in study for medical / any other valid reason during the study. This period will not be counted as part of the minimum / maximum period.
- 4.6. **NURSING:** Full Time – Minimum 3 years and Maximum 5 years.
Part Time – Minimum 5 years and Maximum 7 years.
- 4.7 **AGRICULTURE:** Full Time – Minimum 3 years and Maximum 7 years.

5. ADMISSION PROCEDURE

- 5.1. Candidates aspiring to apply for a Ph.D. programme shall apply in response to the

advertisement.

- 5.2 All eligible applicants will be called for entrance test and an interview. The admissions will be based on the merit considering academic and research records, and the performance in the entrance test and interview.
- 5.3 Entrance Test shall be of objective type with 100 multiple choice questions (MCQs). 50 questions from Research Methodology and 50 questions from subject specific. Each question carries 1 mark. No negative marks for wrong answers. The maximum mark shall be 100 ($100 \times 1 = 100$ marks). There shall be a passing minimum of 50 marks out of 100.
- 5.4 Candidates who qualify for fellowship / scholarship in UGC-NET / UGC-CSIR NET / CEED / GATE / similar National level tests and candidates possessing M.Phil. Degree shall be exempted from appearing the entrance test.
- 5.5 Only the candidates who secured the passing minimum as mentioned above shall be called for an interview.
- 5.6 Entrance Test and interview shall carry a weightage of 70:30. Those candidates who have been exempted from appearing for the Entrance Test as per UGC Guidelines are called for the interview shall be assessed for 100 marks.
- 5.7 **NURSING:** **1.** Entrance test marks obtained out of 90 marks (Minimum weightage pass marks for entrance will be 60 % of 90 i.e., 54). **2.** Five (5) marks for candidates possessing M.Phil. **3.** Five (5) marks weightage for publications.
- 5.8 Selection of the candidates shall be made subject to the availability of vacancies with the research supervisors.
- 5.9 After paying the fees and submission of all original certificates, provisional admission letter will be given.
- 5.10 Candidates registered for a part-time Ph.D. programme shall submit the certificate on his / her employment from the employer to the university every year through the research supervisor and the concerned head of the school/department.
- 5.11 The candidate should pay the fees at the beginning of every year, to keep the Ph.D.

registration valid until the thesis is submitted. If a candidate fails to do so within the permissible dates of payment of fees, the registration shall be withdrawn and the candidate's name shall be removed from the rolls after referring to the supervisor.

5.12 In case of relocation of a female Ph.D. scholar due to marriage or otherwise, the research data shall be allowed to be transferred to the Joy University, provided all the other conditions in these Regulations are followed, and the research work does not pertain to a project sanctioned to the parent Institution / Supervisor by any funding agency. Such scholar shall, however, give due credit to the parent institution and the supervisor for the part of research already undertaken. The scholar shall produce a 'No Objection Certificate' (NOC) from the parent institution.

5.13 The Admission Office shall forward the application along with NOC to the Department / School for scrutiny and action. The Dean of the concerned school shall interview the scholar and verify his / her credentials, subject knowledge, and the quality of research work carried out and submit the recommendation to the Dean (Research).

5.14 Upon granting admission, the Dean (Research) shall appoint the supervisor based on the area of research in consultation with Dean of the school concerned. The supervisor shall constitute RAC as per the existing norms. The RAC shall recommend the minimum / maximum period of completion and the number of credits that can be transferred if the scholar has already completed the course work. The recommendations of RAC shall be validated by the office of the Dean (Research).

6. ADMISSION OF INTERNATIONAL STUDENTS

Each supervisor can guide up to two international research scholars on a supernumerary basis over and above the permitted number of Ph.D. scholars. Selection of international Ph.D. students will be done as per the guidelines / norms issued by statutory / regulatory bodies concerned.

7. SUPERVISORS AND NUMBER OF CANDIDATES

7.1 Permanent faculty members working as Professor / Associate Professor with a Ph.D. and

at least five research publications in peer-reviewed or refereed journals and permanent faculty members working as Assistant Professors with a Ph.D., and at least three research publications in peer-reviewed or refereed journals may be recognized as a Research Supervisor in the university where the faculty member is employed. Such recognized research supervisors cannot supervise research scholars in other institutions, where they can only act as co-supervisors. Adjunct Faculty members shall not act as Research Supervisors and can only act as co-supervisors. The University may not permit external experts to act as Research Supervisors.

7.2 In case of interdisciplinary / multidisciplinary research work, if required, a Co - supervisor from outside the Department / School / University may be appointed.

7.3 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.

7.4 In case of relocation of a female Ph.D. scholar due to marriage or otherwise, the research data shall be allowed to be transferred to the University to which the scholar intends to relocate, provided all the other conditions in these Regulations are followed, and the research work does not pertain to a project sanctioned to the parent Institution / Supervisor by any funding agency. Such scholar shall, however, give due credit to the parent institution and the supervisor for the part of research already undertaken.

7.5 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.

7.6 In case of candidates working outside the University, a Co - Supervisor duly recognized by the University may be permitted, if necessary, in addition to the University Guide / Supervisor on the recommendation of Research Advisory Committee.

7.7 Nursing – Guide Eligibility: Ph.D. with 5 years PG experience with 5 publications in National/International Journals. Guides can select 2 scholars only every year but not more than 6 scholars (including co-guide) at any given point of time.

7.8 Change of Supervisor: The research scholar may write to the Head of the School / Department, in case a change of supervisor is essential. The Head of the School / Department send his / her recommendations to the Dean (Research) to assign a new supervisor based on the availability. The research scholar should get No Objection Certificate from the previous supervisor. In such cases, the RAC can also be reconstituted by the new supervisor with the approval of the Head of the School / Department.

7.9 Change of Category: The FT research scholars may change the category from FT to PT and vice-versa depending on valid grounds. The research scholar shall write a letter to the Head of the School / Department along with the recommendations of the Supervisor. In such cases, the duration of the programme shall be pro-rated by the Office of the Dean (Research). Changing the category from FT to PT is possible only after six months from the date of admission.

8. RESEARCH ADVISORY COMMITTEE

8.1 There shall be a Research Advisory Committee for every candidate registered for the Ph.D. programme to monitor the progress of the candidate during the tenure of the programme. The Research Advisory Committee shall be constituted with the following as its members:

1. Head of the School - Chairman
2. Internal Subject Expert - Member
3. External Subject Expert - Member
4. Research Supervisor – Convener
5. Co-Supervisor if any - Member

8.2 Responsibilities of the Research Advisory Committee:

8.2.1 To review the research proposal and finalize the topic of research.

- 8.2.2 To guide the research scholars in finalizing the Course work.
- 8.2.3 To periodically review progress of their work.
- 8.2.4 In case a research scholar does not show satisfactory progress, the RAC shall suggest corrective measures to the scholar.

8.3 A candidate shall be allowed to submit the synopsis and the thesis only on the recommendation of the Research Advisory Committee after being satisfied with the research output of the candidate.

9. COURSE WORK AND COMPREHENSIVE VIVA-VOCE

9.1 Course Work:

- 9.1.1 The RAC of the candidate shall meet within thirty days of admission and prescribe the course work for the candidate.
- 9.1.2 A minimum of four courses of 12 Credits relevant to the area of research are mandatory for all scholars. The prescribed courses should not have been studied by the scholar during his / her undergraduate / postgraduate programme. The course work shall be recommended by the RAC in its Zeroth meeting.
- 9.1.3 Research Methodology and Research and Publication Ethics are mandatory courses for all scholars, among the four courses prescribed by the RAC. If a research scholar has already completed these courses at M.Phil. programme, he/she may be exempted from registering for the same.
- 9.1.4 The prescribed course works shall normally be completed within a year from the date of provisional registration. If the scholar fails to complete the confirmation of provisional registration beyond three years after his/her registration for the Ph.D. programme, the registration of the scholar shall stand cancelled.
- 9.1.5 No change in the courses prescribed shall be made without the prior approval of the RAC.
- 9.1.6 Ph. D. scholar shall be required to secure a minimum of **55 % marks** in the course

work in order to be eligible to continue in the programme and submit the thesis.

S. NO.	MARKS IN PERCENTAGE	CORRESPONDING GRADE	GRADE POINTS
1	$\geq 90\%$	O	10
2	$\geq 80\%$ and $< 90\%$	A+	09
3	$\geq 70\%$ and $< 80\%$	A	08
4	$\geq 60\%$ and $< 70\%$	B+	07
5	$\geq 55\%$ and $< 60\%$	C	06
6	$< 55\%$	F	0

For Agricultural Sciences:

S. NO.	MARKS IN PERCENTAGE	CORRESPONDING GRADE	GRADE POINTS
1	$\geq 90\%$	O	10
2	$\geq 85\%$ and $< 90\%$	A+	09
3	$\geq 80\%$ and $< 85\%$	A	08
4	$\geq 75\%$ and $< 80\%$	B+	07
5	$\geq 70\%$ and $< 75\%$	C	06
6	$< 70\%$	F	0

Scholar should secure a minimum of **70 % marks** in order to be eligible to continue in the programme and submit the thesis.

For Nursing:

S. NO.	MARKS IN PERCENTAGE	CORRESPONDING GRADE	GRADE POINTS
1	$\geq 90\%$	O	10
2	$\geq 80\%$ and $< 90\%$	A+	09
3	$\geq 70\%$ and $< 80\%$	A	08
4	$\geq 65\%$ and $< 70\%$	B+	07
5	$\geq 60\%$ and $< 65\%$	C	06
6	$< 60\%$	F	0

Scholar should secure a minimum of **60 % marks** in order to be eligible to continue in the programme and submit the thesis.

9.1.7 Conduct of the Course work examination and the announcement of results shall be done by the Controller of Examinations in accordance with the University rules.

9.2 Comprehensive Viva-Voce:

9.2.1. Every scholar is required to submit an extensive literature review report and present. The presentation shall be comprehensive and exhaustive and will be open to all faculty and research scholars. This will be conducted by RAC members within a month after the completion of course work.

9.2.2. The scholar can proceed further with his / her research work, only if his/her performance in the comprehensive viva-voce is found to be satisfactory.

9.2.3. If the scholar's performance in the comprehensive viva-voce is found to be unsatisfactory he / she may be given one more chance for reappearance. His / her Ph.D. registration will be cancelled if he / she fails on the second attempt.

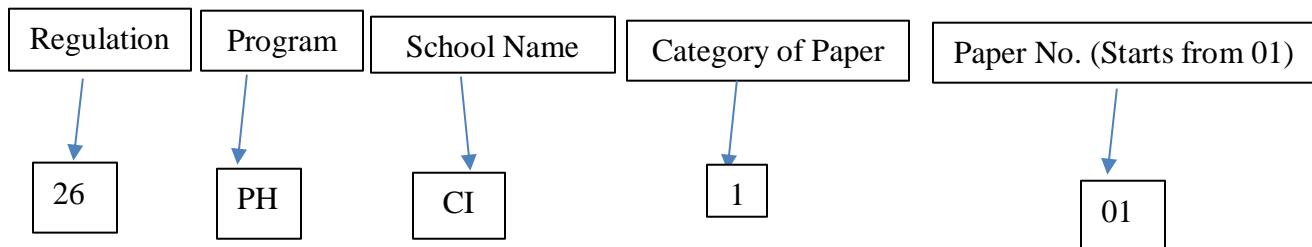
9.3 Options in Completion of Course Work:

9.3.1 Completion of the prescribed course work can also be achieved by utilizing the options provided by the University upon RAC approval to utilize the opportunities available through MOOCs.

9.3.2 Flexibility Options:

SL. NO.	COURSE CODE	NAME OF THE COURSE	CREDITS	OPTIONS TO COMPLETE
1	26PHGN101	Research Methodology	3:0:0	via NPTEL, Swayam or University Classes evaluated by the Supervisor.
2	26PHGN201	Research and Publication Ethics	2:0:0	via NPTEL, Swayam or University Classes evaluated by the Supervisor.
3	XXXXXXXXXX	Course related to Ph.D.	4:0:0	University Classes
4	XXXXXXXXXX	Course related to Ph.D.	3:0:0	University Classes.

9.3.3 Course Code Format:



Example: 26-Regulation, PH-Ph.D., CI-Computational Intelligence, 1-Research Methodology, 01 - First Paper

Category of Paper	
1	Research Methodology
2	Research and Publication Ethics
3	Course related to Ph.D.
4	Seminar * / Term paper #
5	Viva Voce (Proposal defense) #
* Applicable for Nursing & Agriculture # Applicable for Nursing	
School Names	
CI	Computational Intelligence
ET	Engineering and Technology
AG	Agricultural Sciences
LA	Law
LH	Life and Health Sciences
NU	Nursing
AN	Arts and Natural Sciences
EM	Entrepreneurship and Management
PY	Pharmacy

9.3.4 On successful completion of the Course work and the Comprehensive Viva- Voce Examination, the Controller of Examinations shall issue a Course Completion Certificate to the research scholars.

9.4 Course Work for Nursing:

S.No.	Subject	Duration	Marks
Paper I	Research Methodology & Applied Statistics	3 hours	100
Paper II	Nursing Science & Theory Development	3 hours	100
	Seminar/Term paper in the area of research (Internal assessment)	–	100
	Viva Voce (Proposal defense)*	–	100

* $> = 60\%$ of marks will be considered as pass. The syllabi for both the papers shall be as prescribed by the Indian Nursing Council.

9.4.1 **Scope for changing the research topic:** The research topic can be changed within one year.

9.5 Course Work for Agriculture:

COURSE WORK	CREDITS
Major Subjects	12
Minor Subjects	06
Supporting Subjects	05
Seminar	02
Thesis Research	75
Total Credits	100

9.5.1 Candidates can register a maximum of 22 credits per semester including seminar and research. Few Online courses may be assigned. Scholar should secure a minimum of **70 % marks**.

10. MONITORING THE PROGRESS OF CANDIDATES

10.1 Every research scholar shall submit the progress report of the previous semester on or before the fifth working day of every semester, till the submission of the thesis.

- 10.2 The FT scholar has to be present in the University every working day and carry out the required work related to his / her Ph.D. programme.
- 10.3 The PT scholars shall meet and discuss with his / her supervisor(s) at least twice in a month and report the progress of the research work.
- 10.4 All PT scholars shall submit the NoC from their current employers every year on or before 31st July.
- 10.5 The supervisor shall arrange RAC meetings once during the Zeroth meeting to finalize course work, followed by one during the confirmation of the title and finally another during the Synopsis submission. If required, RAC meetings other than those specified above can be conducted. The supervisor shall send the minutes of the meeting along with the progress report to the Head of the School / Department and a copy to the office of Dean (Research).
- 10.6 Full-time research scholar shall be entitled to the holidays and two days leave per month.
- 10.7 If a full-time research scholar avail on-duty for data collection, testing, etc., he / she has to obtain prior approval from his / her supervisor based on the required number of days.
- 10.8 If a Full-Time research scholar remains absent for more than one week due to unexpected events beyond the control of the scholar, for instance, accident and prolonged ill health during the period of research work, such absence shall be intimated to the Dean concerned within a period of two days through the Research Supervisor.
- 10.9 In case the supervisor has been retired, the candidates are permitted to continue their Ph.D. programme under a new supervisor. The existing supervisor may act as co-supervisor if required.

11. FELLOWSHIP FOR FULL-TIME SCHOLARS

11.1 Suitable fellowship per month shall be given to the Full-time research scholars from 7th month onwards.

11.2 The fellowship assistance may be continued for a maximum of three years from the date of admission.

11.3 Full-Time research scholar shall do the following academic related assignments given by the Supervisor / Head of the School at the University, till the submission of the Ph.D. Thesis.

- i. Assisting the faculty of the School / Department in teaching work.
- ii. Invigilation during Mid-Semester Examinations.
- iii. Evaluation of answer scripts of Mid Semester Examinations.
- iv. Accompanying the students during field trips and various Departmental / School activities.

12. SUBMISSION OF SYNOPSIS

12.1 On satisfactory completion of the research work, prescribed courses and the comprehensive viva-voce, the candidate shall submit the synopsis of the Ph.D. work. The earliest date for the submission of the synopsis shall be three months before the expected date of submission of the thesis as per the norms. However, the thesis can be submitted only after the completion of the specified minimum period.

12.2 The synopsis presentation shall be conducted by the RAC in the presence of all faculty members and research scholars of the school concerned. After a satisfactory

12.2 presentation of the research work reported in the synopsis, the RAC shall forward one hard and soft copies of the revised synopsis along with the panel of examiners (confidential), Research Advisory Committee report and evidence for the publication of research papers to the Dean (Research).

12.3 The synopsis shall be submitted only after the research scholar has fulfilled the following conditions:

12.3.1 For Scholars in Engg. and Tech., Computational Intelligence, Management, Law, Pharmacy, Psychology, Library Science, Nursing, Mathematics and Physical Sciences:

Two research papers and one review paper shall be published in international Journals indexed in Scopus or Web of Science, of which at least one must be in Q1 or Q2 category journal.

OR

One research paper and one review paper shall be published in international journals indexed in Scopus or Web of Science, of which at least one must be in Q1 or Q2 category journal.

&

One paper in International Conference Proceeding indexed in Scopus / Web of Science.

OR

One research paper and one review paper shall be published in refereed international journals indexed in Scopus or Web of Science, of which at least one must be in a Q1 or Q2 category journal.

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One patent shall be filed with Higher Technology Readiness Levels (TRL 3 and above) leading to technology transfer and commercialization.

12.3.2 For Scholars in Arts, Physiotherapy, Life Sciences, Allied Health Sciences, and Physical Education:

Two research papers and one review paper shall be published in international

Journals indexed in Scopus or Web of Science.

OR

One research paper and one review paper shall be published in international journals indexed in Scopus or Web of Science.

&

One paper in International Conference Proceeding indexed in Scopus /Web of Science.

OR

One research paper and one review paper shall be published in international journals indexed in Scopus or Web of Science.

&

One patent shall be filed leading to technology transfer and commercialization.

12.3.3 For Scholars in Agriculture:

Publication of two research articles should be made with **NAAS rating more than 6.0** in the journals indexed with Scopus Index/ Science Citation Index.

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one review paper shall be published in international journals indexed in Scopus or Web of Science.

12.4 Guidelines for finalizing External Examiners:

12.4.1 A Panel of Six External Examiners shall be provided. Three Indian Examiners from three different States or Union Territories other than Tamil Nadu, Three Foreign Examiners from three different countries.

12.4.2 The examiner can be an Associate Professor / Professor / Research Scientist of

repute with adequate experience in the concerned field of specialization.

12.4.3 **For Tamil Language**, the RAC shall recommend a panel of Six examiners, Three Examiners from Tamil Nadu and Three Examiners from rest of the India / world.

12.4.4 **For Nursing**, the Supervisor shall recommend a panel of six examiners from outside the University who fulfill the criteria of a guide.

12.5 The Supervisor shall submit the Panel of Examiners with complete address including designation, email id, mobile numbers and their bio-data / curriculum vitae. Research Supervisor is responsible for any errors found in the Panel details.

13. SUBMISSION OF THESIS

13.1 The thesis has to be checked for similarity using the plagiarism software as specified by the University and the generated report should be signed by the candidate, supervisor and Head of the School and should be submitted along with the thesis. The permissible limit of similarity is 10 % excluding those reflecting the works of the author of the thesis under consideration.

13.2 The thesis shall be prepared in the format prescribed by the University highlighting the original research work of the candidate.

13.3 The thesis shall be scrutinized by the supervisor to assess the overall layout, contents and the quality of presentation of the thesis. The deviation, if any, shall be rectified by the scholar in consultation with the supervisor.

13.4 Four hard and soft copies of the thesis shall be submitted to the Office of the Dean (Research). The thesis shall be submitted within six months of the approval of the synopsis by the RAC. Under no circumstances, the submission of the thesis can be delayed. However, under extraordinary circumstances, an extension of two months may be permissible with the recommendations of the RAC.

13.5 The thesis shall include a certificate from the scholar and the concerned supervisor (and joint supervisor, if any) to the effect that the thesis is a record of the bonafide research work carried out by the candidate under his / her / their supervision and

that the work reported in the thesis has not been submitted elsewhere for a degree or diploma.

13.6 The Office of Dean (Research) will submit the thesis to the Controller of Examinations for evaluation.

14. THE ACT OF PLAGIARISM

14.1 To promote the culture of academic integrity and research ethics, the acceptable level of similarity is up to 10 %. This should be followed by all the research scholars while submitting the thesis.

14.2 In the case of research scholars, who have copied a dissertation / thesis / book for Ph.D. degree, his / her thesis shall be forfeited and his / her research registration shall be terminated in the University.

14.3 If any academic misrepresentation or dishonesty by a research scholar is brought to the notice of the University, after the award of the Degree, the University after due notice and investigation may withdraw the Ph.D. Degree with respect to the scholar.

14.4 For the abetment of the above-mentioned action, the recognition of his / her supervisor shall be withdrawn for a period of 5 years and he / she shall be debarred from acting as a guide of scholars.

15. THESIS EVALUATION

15.1 The Thesis will be sent to the two examiners (one from India and another from foreign countries), selected by the Vice-Chancellor from the panel of examiners recommended by the Research Advisory Committee.

15.2 The examiners must provide an overall assessment of the Thesis and place it in one of the following categories:

Category 1: Recommend the acceptance of the Thesis in its present form.

Category 2: Recommend the acceptance of the Thesis; however, the scholar is required to incorporate the corrections indicated in the detailed report and submit the corrected copy to the Viva-voce Examination Board. The corrected Thesis need

not be sent back to the examiner.

Category 3: Defer the recommendation at this stage. The scholar must incorporate the suggested modifications in the Thesis, and the corrected Thesis along with the scholar's clarifications shall be sent to the respective examiner.

Category 4: Reject the Thesis for the reasons set out in the detailed report.

15.3 The examiners shall also enclose a detailed report, indicating the reasons for all four categories.

15.4 If both examiners recommend the award of the degree, the Thesis will be provisionally accepted. Any minor revisions, modifications, or suggestions made by the examiners shall be addressed before the Viva-voce Examination Board takes place.

15.5 If any examiner recommends resubmission of the thesis after revision as per category 3, the scholar shall be permitted to revise and resubmit the Thesis along with the resubmission fee within six months; failing which the revised thesis shall not be accepted and his/her registration shall stand cancelled. The revised Thesis shall be referred to the same examiner for his/her final recommendation on the Thesis which shall be only either for recommendation for the award or for rejection.

15.6 If one examiner recommends the award of the degree, while the other recommends rejection, the Thesis will be referred to a third examiner, to be selected by the Vice- Chancellor. If two out of the three examiners recommend the award, the Thesis shall be provisionally accepted. On the other hand, if two examiners recommend rejection, the Thesis will be rejected, and the scholar's registration shall be cancelled.

15.7 Controller of Examinations Office should do the communications with the examiners.

16. VIVA-VOCE EXAMINATION

16.1 Upon receiving the evaluation reports, Viva-voce Examination Board shall be

constituted as follows:

1. Any one Examiner of the Thesis or an expert from the panel (Online mode may be provided if foreign examiner is approved) - Member
2. Co-Supervisor (if applicable) - Member
3. Supervisor-Convener

16.2 The Viva-voce examination will be in the form of an "Open Defense Type" Examination and should not be scheduled on holidays. A circular announcing the date of the Viva-Voce Examination shall be communicated by the Supervisor to the Dean (Research), faculty members, research scholars, other departments, and other institutions, at least three weeks before the examination. The Viva-Voce Examination must have a minimum of ten members present, excluding the Viva-voce Examination Board members.

16.3 If the Viva-voce Examination Board deems the scholar's performance as "not satisfactory," the scholar may choose to reappear for the Viva-voce Examination at a later date, not exceeding three months from the date of the first Viva-voce Examination. For the second attempt, the Viva-voce Examination Board shall include one more expert member selected by the Vice-Chancellor.

16.4 In the event that the scholar's performance in the second Viva-voce Examination is also reported as "not satisfactory," the Vice-Chancellor may refer the remarks of the Viva-voce Examination Board, along with the Thesis and comments of the Examiners and take final decision.

16.5 If the candidate is successful in the Public Viva-Voce, the Board of Public Viva-Voce examiners shall recommend the candidate for the award of the Degree based on;

- i) The reports of the examiners who adjudicated the thesis and
- ii) The Evaluation of the candidate's performance in the Public Viva-Voce examination.

17. AWARD OF Ph.D. DEGREE

17.1 A candidate shall be eligible for the conferment of Ph.D. degree, if he / she has passed all the examinations. After successful completion of the viva-voce examination, a provisional degree certificate shall be issued.

17.2 A candidate who qualifies for the Ph.D. degree shall be issued the degree certificate specifying the title of the dissertation / thesis and the discipline in which he / she acquired the post – graduate degree.

18. ETHICS AND GRIEVANCE REDRESSAL COMMITTEE

18.1 Any clarification or any dispute faced by the candidate shall be addressed to the Ethical and Grievance Redressal Committee (EGRC). The EGRC scrutinizing the issues and recommending its decisions to the Vice-Chancellor on the following:

1. Issues relating to plagiarism, authorship of the research papers, etc.
2. Issues relating to problems between the supervisors and the scholars.
3. Issues relating to interdisciplinary research.
4. Cases relating to the refusal of HOD / Dean in signing or forwarding the Ph. D. thesis.
5. Other issues relating to research.

18.2 The Vice-Chancellor shall constitute EGRC with the following as its members:

1. Dean (Research) – Convener
2. Dean of the concerned School
3. One subject expert (recognized research supervisor) to be nominated by the Vice-Chancellor.

19. DEPOSITORY WITH INFLIBNET

Before announcement of the award of Ph.D. Degree, the University shall submit a soft copy of the Ph.D. Thesis to INFLIBNET, for hosting the same so as to make it accessible to all the Institutions.

20. REVISION OF REGULATIONS

The University may revise, amend or change the regulations, scheme of examinations, syllabus and also the fee structures, from time-to-time if necessary, and such amendments or changes shall come into effect from the date prescribed.



Research and Development

SUPERVISOR ACCEPTANCE

(To be filled by the Supervisor)

Date:

1. Name of Faculty:
2. Designation:
3. Department / School:
4. Details of the Ph.D. students being supervised at present:

S. No.	Name of the Student	Reg. No.	Date of Registration	Status of Research work

I am willing to act as Ph.D. supervisor for Mr./ Ms.

Proposed Area / Title.....

Date:

Signature of Supervisor

Signature of School Dean

Dean (Research)



RESEARCH AND DEVELOPMENT

COMPOSITION OF RESEARCH ADVISORY COMMITTEE (RAC)

Name of the School:

Date:

Detail of the Ph.D. Scholar:

1. Name of the Scholar:	2. Roll No.:
3. Email ID:	4. Contact Number:
5. Date of Joining:	
6. Category: Full Time / Part-time (External) / Part – time (Internal)	

RESEARCH ADVISORY COMMITTEE MEMBERS:

S.NO.	Name and Designation of the Faculty Members	Department / School / Institute's Name and Address	Mail ID and Mobile No.
1.	External Member		
2.	Internal Member		
3.	Dean of the School		
4.	Supervisor		
5	Joint Supervisor		

Supervisor

School Dean

The composition of Research Advisory Committee as proposed above may kindly be approved.

Dean (Research)

Vice – Chancellor



Research and Development

COURSE WORK REGISTRATION

Date:

1. Name of Student:
2. Roll No.:
3. Department / School:
4. Date of Admission:
5. Category under which admitted: Full Time / Part-time (External) / Part-time (Internal)
6. Area/Field of Research:
7. Proposed Title:

8. Details of Course Work

S. No.	Course Name	Course Code	Credits	NPTEL / University	Faculty
1					
2					
3					
4					
5					
6					
7					

9. Name and Designation of the Supervisor:

Signature of Candidate

Research Supervisor

Dean R & D



RESEARCH AND DEVELOPMENT

Monthly Progress Report to Release Stipend of Full Time Ph. D. Scholar

Date:

1. Name: _____
2. University Roll No.: _____
3. University Email ID: _____
4. Contact Number: _____
5. Date of Admission: _____
6. Supervisor Name: _____
7. Total Number of Working Days: _____
8. No. of days leaves taken [Attach the leave letter]: _____
9. Details of work Load in the month of 2026

S.NO.	Course Code	Course Name	Teaching hours per week	Total Invigilation duties performed	Total Work load in the month

Briefly write the completed research work of this month.

Signature of the Research Scholar

Recommended/Not Recommended:

Supervisor

School Dean

For Official use

Recommended to release Rs..... (Rupees Only)
for the month of 2026.

Dean (Research)

Registrar



RESEARCH AND DEVELOPMENT

Zeroth Meeting – Research Advisory Committee Report

Course Work and Title Approval Meeting

PART-A

School/Branch	
Date of meeting	

1. Name of the Scholar :
2. Roll / Reg. Number :
3. Category of registration : Full Time / Part Time -E / PT – I
4. Date of Admission :
5. Name of the Supervisor & Affiliation :
6. Name of the Co-Supervisor (if any) & Affiliation :
7. Proposed Area / Title of Research :
8. Fee paid (Registration +Tuition) :
9. Details of the course work :

S. No.	Course Name	Course Code	L-T-P Credit Structure
1	Research Methodology		3-0-0
2	Research and Publication Ethics		2-0-0
3			
4			
Total			12 Credits

Signature of the Student

Signature of the Supervisor

10. Performance of the Scholar :

Satisfactory / Not Satisfactory11. Remarks of the **External Expert** :12. **Research Advisory Committee members.**

S.No.	Position	Name, Designation and Affiliation	Signature
1	Dean / HoD – Chairman		
2	External Expert – Member		
3	Internal Expert – Member		
4	Supervisor – Convener		
5	Joint Supervisor		

Signature of the Supervisor**Signature of the Dean / HoD****Dean R&D**

(Note:3 copies of this document are to be prepared (type written only) for student, department and R&D section)

GUIDELINES FOR THE PREPARATION OF SYNOPSIS

Synopsis should outline the research problem, the methodology and the summary and conclusion of the findings. The size of the Synopsis should not exceed 20 pages of typed matter. The sequence in which the synopsis should be arranged is as follows:

- 1) Cover page and title page
- 2) Text divided into suitable headings (numbered consecutively)
- 3) References (not more than 12)
- 4) List of publications (those published/accepted for publications)

Standard A4 size (297 mm x 210 mm) bond paper may be used for preparing the synopsis. The synopsis should have the following page margins:

Top edge	:	30 to 35 mm
Bottom edge	:	25 to 30 mm
Left side	:	35 to 40 mm
Right side	:	20 to 25 mm

The synopsis should be prepared using good quality white paper preferably not lower than 80GSM. One and half line spacing should be used for typing the general text. The general text shall be typed in Font Style Times New Roman and Font Size 13. One or two tables/ figures may be included at appropriate places in the text of the synopsis and they should conform to the margin specification. All page numbers (Arabic numbers) should be typed without punctuation on the upper right-hand corner 20 mm from top with the last digit in line with the right-hand margin.

Synopsis should be soft bound with black calico cloth and using flexible cover of thick white art paper. The cover should be printed in black letters on plain white background and the text for printing should be identical to what has been prescribed for the title page. The references such as journals, books, E-books, conference proceedings, patents, etc. should be typed following the APA (American Psychological Association) format.

GUIDELINES FOR THE PREPARATION OF THESIS

1. SIZE OF THE THESIS

The size of the thesis shall be between 100 and 300 pages of typed matter reckoned from the title page to the last page of thesis including the reference section.

2. ARRANGEMENT OF THE CONTENTS OF THE THESIS

The sequence in which the thesis contents should be arranged as follows:

- 1) Cover page and Title page
- 2) Certificate by the Research Supervisor (Annexure I)
- 3) Declaration by the Scholar (Annexure II)
- 4) Abstract
- 5) Acknowledgement
- 6) Table of contents
- 7) List of Tables
- 8) List of Figures
- 9) List of Abbreviations and Symbols
- 10) Chapters
- 11) Appendices (if applicable)
- 12) References
- 13) List of Publications

Tables and Figures should be included subsequently after referring to them in the text of the thesis. The thesis starting from chapters should be printed on both sides.

3. QUALITY OF PAPER AND MARGIN SPECIFICATIONS

The thesis should be prepared using good quality white paper preferably not lower than 80 GSM. Standard A4 size bond paper may be used for preparing the thesis. The dimensions of the final bound thesis should be 290 mm x 205 mm.

The following page margins should be followed while preparing the thesis:

Top edge	:	30 to 35 mm
Bottom edge	:	25 to 30 mm
Left side	:	35 to 40 mm

Right side : 20 to 25 mm

The Tables and figures should also conform to the margin specifications. Large size figures should be photographically or otherwise reduced to the appropriate size.

4. MANUSCRIPT PREPARATION

The headings of all items from 2 to 12 listed in section 2 should be typed in upper case letters without punctuation and centered 50 mm below the top of the page. The text should start 4 spaces below the heading. The page numbering from 1 to 8 should be done using lower case Roman numerals and the pages from 9 to 12 should be numbered using Arabic numerals.

4.1 Cover Page and title Page

The cover page and title page for the thesis should be in the same format.

4.2 Certificates

The certificate shall be typed in double line spacing using font style Times New Roman and Font size 12 as per the format shown in Annexure I and II. The certificate shall be signed by the Supervisor and shall be followed by the supervisor's name academic designation, department and full address of the institution where the supervisor has guided the scholar. Signature of the co-supervisor with details should be included wherever applicable.

4.3 Abstract

Abstract should be an essay type of description not exceeding 4 pages outlining the research problem, methodology and summary of the findings. This shall be typed in one and a half line spacing using Font style Times New Roman and Font size 12.

4.4 Acknowledgement

It should be very brief and restricted to one page only when typed in one and a half line spacing. The scholar's signature shall be affixed at the bottom right end above the scholar's name typed in capitals.

4.5 Table of contents

The title page, certificate and acknowledgement will not find a place among the items listed in the Table of Contents, but the page numbers of which are in lower case Roman letters. One and a half line spacing should be adopted for typing the matter under this head.

4.6 List of Tables

The list should use exactly the same captions as they are written above the tables in the text. One and a half line spacing should be used for typing under this heading.

4.7 List of Figures

The list should use exactly the same captions as they appear below the figures in the text. One and a half line spacing should be used for typing under this heading.

4.8 List of symbols and abbreviations

One and a half line spacing shall be used for typing the matter under this heading. Standard symbols, abbreviations, etc., shall be used.

1.9 Chapters

The chapters may be broadly classified into three parts: (i) introduction, (ii) the main theme of the thesis and (iii) results, discussion, summary and conclusion. The main chapters may be divided into several sections, divisions and sub-divisions. Each chapter should be given appropriate title. Titles and figures in a chapter should be placed in the immediate vicinity of the reference where they are cited.

5.10 Appendices

Appendices are provided to give supplementary information, which if included in the main text may serve as a distraction and spoil the central theme of the thesis. Appendices shall be numbered using Arabic numerals, e.g., Appendix 1, Appendix 2, etc. Tables and references in appendices should be numbered and referred at appropriate places just as in the case of chapters. Appendices shall carry the title of the work reported and the same title shall be included in the table of contents.

5.11 List of References

Any works of other researchers, if used either directly or indirectly, the origin of the material thus referred to should be indicated at appropriate places in the thesis. Such references in the form of research articles, monographs, books, review articles, patents and proceedings shall be cited in the thesis following the APA (American Psychological Association) format. A citation should be placed wherever appropriate, preferably at the end of a sentence. All the citations shall be in the same font as the main text. The list of references should be typed 4 spaces below the heading "REFERENCES" in single line spacing using Font style Times New Roman and Font size 13.

5.12 List of Publications

The list of publications (those already published/accepted for publication in journals and papers presented in conferences/symposia) made by the research scholar during the period of research shall be reported in the table of contents.

5.13 Tables and Figures

Table means tabulated data in the body of the thesis as well as in the appendices. Others such as charts, graphs, maps, photographs and diagrams may be designated as figures. The table or figure including caption should be accommodated within the prescribed margin limits and should appear on the following page where their first reference is made. All tables and figures should be typed on the same quality paper used for the preparation of the text of the thesis. Two or more small tables or figures may be grouped and typed in a single page, if necessary. Wherever possible, the photograph(s) shall be reproduced on a full sheet of photographic paper or standard A4 size paper.

5. TYPING INSTRUCTIONS

5.1 General:

The impressions on the typed/printed copies should be black in colour. One and a half line spacing should be used for typing the general text. The general text shall be typed in Font style Times New Roman and Font size 13. Long tables, long quotations, foot notes, multiline captions and references should be typed in single line spacing.

5.2 Chapters:

The format for typing headings, division headings and sub-division headings are as follows

Chapter heading	CHAPTER 1 INTRODUCTION
Division heading	1.1 OUTLINE OF THESIS
Sub-division heading	1.1.1 Literature Review 1.1.1.1 Types of stainless steels

The word CHAPTER without punctuation should be centered 50 mm down from the top of the page. Two spaces below, the title of the chapter should be typed centrally in capital letters. The text should commence 4 spaces below this title, the first letter of the text starting 20 mm inside from the left-hand margin.

The division and sub-division captions along with their numbering should be left justified. The typed material directly below division or sub-division heading should commence 2 spaces below it and should start typing 20 mm from the left-hand margin. Within division or sub-division paragraphs are permitted and they should also commence 3 spaces below the last line of the preceding paragraph, with offset from the left-hand margin by 20 mm.

6. NUMBERING INSTRUCTIONS

6.1 Page Numbering

All page numbers (whether it be in Roman or Arabic numbers) should be typed without punctuation on the upper right-hand corner 20 mm from the top with the last digit in line with the right-hand margin. The preliminary pages such as title page, acknowledgement, table of contents, etc. should be numbered in lower case Roman numerals. Pages of the main text starting with Chapter 1 should be consecutively numbered using Arabic numerals till the end of the thesis.

6.2 Numbering of Chapters, divisions and Sub-Divisions

The numbering of chapters, divisions and sub-divisions should be done using Arabic numerals only and further decimal notation should be used for numbering the divisions and sub-divisions within a chapter. For example, sub- division 2 under division 4 belonging to chapter 3 should be numbered as 3.2.4. The caption for the sub-division should immediately follow the number assigned to it. Appendices, if any, should also be numbered in an identical manner starting with appendix 1.

6.3 Numbering of tables and figures

Tables and figures appearing anywhere in the thesis should have appropriate numbers. For example, if a Figure in Chapter 4 happens to be fifth, then assign 4.5 to that figure. Similar rules apply for tables. For example, if a table in chapter 3 happens to be second, then assign 3.2 to that table. If Figures or Tables appear in Appendices, then Table 3 in Appendix 1 will be designated as Table A1.3. Similarly for Figures.

6.4 Numbering of Equations

Equations appearing in each chapter or appendix should be numbered serially, the numbering should commence afresh for each chapter or appendix.

7. BINDING SPECIFICATIONS

Thesis side pinning/stitching, covered with wrapper printed on 300 GSM white art card and outer side gloss laminated, adhesive binding. The cover (white color) should be printed in black letters and the text for printing should be identical to what has been prescribed for the title page.

A typical Specimen of Cover page and Title Page

**STUDY ON DUPLEX STAINLESS STEEL WELD
CLADDING**

<1.5 line spacing>

A THESIS

Submitted by

<Italic>

T. KUMAR**Roll No. 2000130004**

Under the supervision of

<Italic>

Dr. K. MURUGAN

Professor

Department of Mechanical Engineering

Joy University

in partial fulfillment of the requirements for the award of the degree of

<Italic><1.5 line spacing>

**DOCTOR OF PHILOSOPHY IN
MECHANICAL ENGINEERING**

JOY UNIVERSITY
semper paratus**DEPARTMENT OF MECHANICAL ENGINEERING
SCHOOL OF ENGINEERING AND TECHNOLOGY****JOY UNIVERSITY****RAJA NAGAR, VADAKANGULAM - 627116****TAMIL NADU, INDIA**

<1.5 line spacing>

APRIL 2026

Annexure – I**CERTIFICATE**

This is to certify that the thesis entitled "**Study On Duplex Stainless Steel Weld Cladding**" is a bonafide record of research work done by **Mr. T. Kumar (Roll No. 2000130004)**, Research Scholar, Department of Mechanical Engineering, School of Engineering and Technology, Joy University, Raja Nagar, Vadakankulam, under my guidance during the period **2022-2026**, and that this thesis has not previously formed the basis for the award of any degree, diploma, fellowship or other similar title to this candidate or any other candidate.

This is also to certify that the thesis represents the independent work of the candidate.

Place:

(Dr. K. MURUGAN)

Date:

Research Supervisor

Annexure – II**DECLARATION**

I, T. Kumar, Research Scholar in the Department of Mechanical Engineering, declare that the work embodied in this Ph.D. thesis entitled **“Study on Duplex Stainless Steel Weld Cladding”** is the result of my own bonafide work carried out with my effort and submitted by me under the supervision of **Dr. K. Murugan**, Professor, Department of Mechanical Engineering, School of Engineering and Technology, Joy University, Raja Nagar, Vadakankulam. The contents of this thesis have not formed the basis for the award of any Degree/Diploma/ Fellowship/Titles in this University or any other University or similar Institutions.

I declare that I have faithfully acknowledged and given credit and referred to the researchers wherever their works have been cited in the body of the thesis. I further declare that I have not copied others' data / work / results, etc. reported in the journals, books, reports, theses, etc. and claimed as my own work.

Place:

Date:

Signature of the Research Scholar

Roll No.: **2000130004**

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