First Doctoral Committee Meeting:

Outcome:

To introduce the domain and approve course work based on broad understanding of research problem.

For the first DC, the candidate slide presentation should have the following content:

- Title slide with name and SRN of the student and Supervisor/Co-supervisor (if any)
- List of DC members
- Introduction to the area of research
- Initial understanding of the state of art in the domain.
- Research problem(s) the candidate would like to explore.
- List of relevant courses (atleast4) to be proposed.
- Work to be carried out in next 6 months.
- Every slide must have PES University logo.

Subsequent Doctoral Committee Meetings:

Outcome:

To assess the six-monthly progress made by the candidate and to record Satisfied / Not Satisfied comments on the research work.

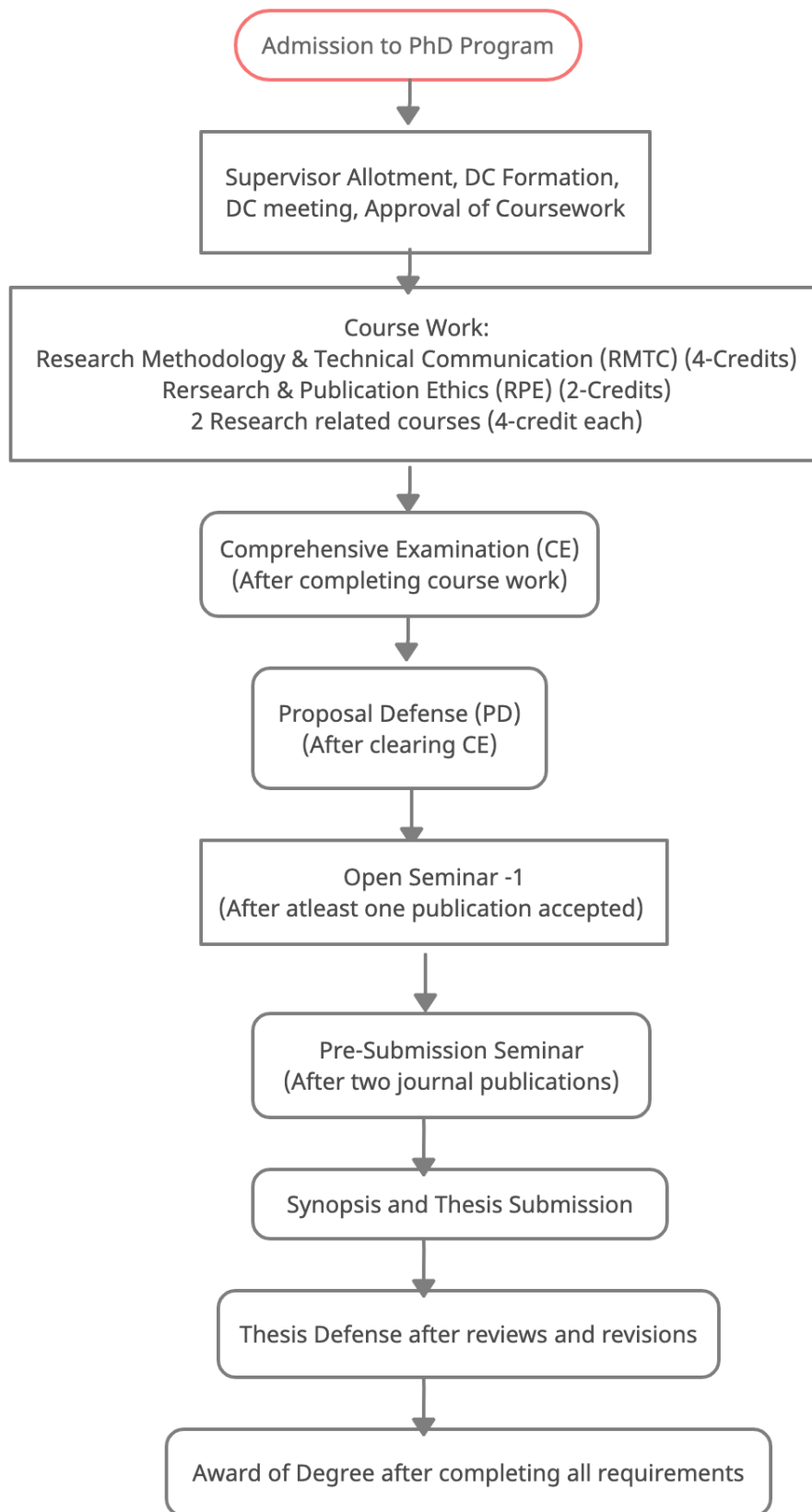The slide presentation should have the following content:
- Title slide with name and SRN of the student and Supervisor/Co-supervisor (if any)
- List of DC members
- Previous DC meetings summary
- Problem Statement (if decided)
- Research Objectives (if decided)
- Literature Survey
- Research Gaps/Literature Summary
- Work Done during review period
- Work to be carried out till next DC meeting.
- Conclusions
- References
- Every slide must have PES University logo.

Guidelines to be followed by all PhD students:

- It is mandatory for part-time PhD studentsto meet theirResearch Supervisor at-least once a week for discussions.
- Any change in the mode of PhD programme(Full-Time to Part Time or Part-Time to Full-Time) must be informed to Dean of Research.
- A letter in this regard has to be formally submitted and approved by Dean of Research.
- Any break of a semester or more during the PhD programme has to be approved. It has to be communicated by the student through his/her Research Supervisor to Dean of Research.
- The minimum grade required to clear a course by the PhD student is "C" Grade. In case, thescoreobtained by the PhD student, in a course is less than "C" Grade, the course has to be repeated.
- The student is required to complete course work, comprehensive exam and the Research Proposal Defense within a period of 18 months from the date of registration.
- Doctoral Committee must meet once in 6-months to evaluate the progress of the candidate.
    - o DC meeting has to be scheduled by the Research Supervisor.
    - o DC meeting has to be conducted during Jan-March for evaluating research progress made in July-Dec period.
    - o DC meeting has to be conducted during July-September for evaluating research progress made in Jan-June period.
    - o Minutes of the DC meeting have to be submitted to Dean Research office and a copy of the minutes of DC meeting has to be submittedto COE office by the PhD student.
- The minutes of the meeting and the progress report has to be recorded for all these meetings. Please follow the format available for the same.
- All the research articles submitted for any publication has to undergo plagiarism check before submission. The similarity index should be preferably less than 15%.
- Please ensure that the affiliation is PES University, Bengaluru
- Please ensure all your publications related to PhD research work must have you and your supervisor as authors.
- Please ensure all the publications(Conference /Journals) are indexed in Scopus or Web of Science databases
- Following are the evaluation components for PhD Students:
    - o Course Work (2+2),a total of 14 credits should be completed within a year from the day of registration
    - o Research Methodology & Technical Communication is a compulsory 4 credit course and Research& Publication Ethics is a compulsory 2 credit course which has to be cleared by all PhD Students.
    - o Comprehensive Examination&Research Proposal Defense (should be completed within next six months after course work is completed)
    - o Open Seminar in the third year of PhD or earlier.
    - o Open Seminar-2 (Pre-Synopsis Seminar) before submission of Synopsis.
    - o Synopsis & Thesis Submission
    - o Thesis Defense

- A copy of the fee receipt for any of these evaluations has to be submitted to Dean of Research, before evaluation.
- Before submitting the synopsis, its mandatory to have 2 Journal publications which are Scopus/Web of Science (SCIE/SSCI/ESCI) indexed and preferably with Thomson Reuters(JCR) Impact Factor.
- Please report any change in address/job/email/mobile number to the office of Dean of Research and COE.
- Full Time students who are availing university stipend has to abide bythe workload assigned by the department and the designated research supervisor.
- Full Time PhD students have to submit attendance sheet signed by Research Supervisor and workload sheet signed by Department Chairperson / HoD in the prescribed format. Submit the same to the Office of Dean of Research every month.
- For any further information, contact Dean of Research

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FLOWCHART OF THE MILESTONES FOR PHD STUDENTS

Admission to PhD Program

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Supervisor Allotment, DC Formation,
DC meeting, Approval of Coursework

↓

Course Work:
Research Methodology & Technical Communication (RMTC) (4-Credits)
Rersearch & Publication Ethics (RPE) (2-Credits)
2 Research related courses (4-credit each)

↓

Comprehensive Examination (CE)
(After completing course work)

↓

Proposal Defense (PD)
(After clearing CE)

↓

Open Seminar -1
(After atleast one publication accepted)

↓

Pre-Submission Seminar
(After two journal publications)

↓

Synopsis and Thesis Submission

↓

Thesis Defense after reviews and revisions

↓

Award of Degree after completing all requirements

Research Centers @ PESU

1. The Crucible of Research and Innovation (CORI)

2. Centre for Data Sciences and Applied Machine Learning (CDSAML)

3. Centre for Cloud Computing and Big Data (CCBD)

4. Centre for Pattern Recognition (CPR)

5. Centre for Research in Space Sciences and Technology (CRSST)

6. Centre of Excellence in Information Security, Forensics and Cyber Resilience (ISFCR)

7. Centre of Excellence in Internet of Things (IOT)

8. Centre for Robotics, Automation and Intelligent Systems (CRAIS)

9. Centre for Innovation & Entrepreneurship (CIE)

10. Centre for Heterogeneous and Intelligent Processing Systems (CHIPS)

11. Process Modelling Research Lab (PMR)

12. Centre for Business Data Analytics (CBDA)

13. Centre for Investment in Capital Markets (CICM)

14. Centre for Emerging Business (CEB)

15. Quantum Electronics & Non-Linear Optics Research Lab

Ph.D. Comprehensive Exam

Prepare a 30-min presentation on Courses Completed and Grade obtained, Syllabus of the courses completed, Topic of your research, Motivation, Work done so far.

The evaluation for Comprehensive Exam will be based on your understanding of basics, the course work carried out and the knowledge required to carry on your research work.

The student has to submit the fee payment proof and the course completion certificate issued by Controller of Examination.

The oral examination will be scheduled by Dean of Research in consultation with the Supervisor and DC members.

Ph.D. Proposal Defense

1. Prepare a Proposal Synopsis with Tentative Title for sharing with external experts who will be invited for your Proposal Defense.

2. Prepare a Proposal Report consisting of the following aspects:
   a) Tentative Title
   b) Introduction
   c) Motivation & Literature Review
   d) Problem Statements & Objectives
   e) Proposed work / Work being carried out
   f) Gantt Chart (Timeline)
   g) Conclusion
   h) Publications (if any, in IEEE citation format)
   i) References(use IEEE citation format)

3. Submit softcopy of Synopsis, Proposal Report and the result of Comprehensive Examination to the office of Dean, Research.

4. Dean, Research in consultation with Supervisor and DC Members will schedule the Proposal Oral Defense.

5. Prepare a presentation which includes the following;
   a) Tentative Title / Candidate Name & SRN / Supervisor & Co-Supervisor Name & Affiliation
   b) Doctoral Committee Members List

c) Registration details / Courses completed & grades obtained / CE results with time line
d) Follow the aspects given in the report format
e) Results to be shown if any from the work carried out till now.
f) Publication/Patent Details

6. Please **make sure to use New PES University logo, slide number and date** in Presentation.
7. Please refer the following URL for formats and details: https://pes.edu/phd/

Contact Information

Research Related: dean.research@pes.edu

Library Resources: librarian@pes.edu

Vice Chancellor: vice.chancellor@pes.edu

Registrar: registrar@pes.edu

Ph.D. / M.Tech by ResearchAdmission
Calendar of Events

Activity	Odd Semester (June Admission)	Even Semester (December Admission)
Last date for submitting Application	3rd Friday of March	Last Friday of September
Entrance Exam (Computer Based Test)	Last Sunday of March	1st Sunday of October
Interview	2nd Week of April	3rd Sunday of October
Result Announcement	3rd Week of April	4th Week of October
Last day to pay Admission Fee	1st Friday of May	1st Friday of November
Constituting of Doctoral/Research Committee	Last week of May	Last week of November
First DC /RC meeting	Before Last of week of July	Before Last week of December
Course Work commence	First week of August	First week of January
Course work exam	December/January	June/July
Timeline for six-monthly presentation to Doctoral/Research Committee	Between August & October	Between January & March

Major Milestones for Ph.D. program		
Course Work Exams	December/January	June/July
Comprehensive Exam	Within 2 months after Course work is completed	
Proposal Defense	Within 2 months after Comprehensive exam	
Open Seminar	Within 3 years of the program	
Pre-Synopsis Seminar	Before submitting the Ph.D. Synopsis	
Thesis Submission	4 weeks after Synopsis submission	

Major Milestones for M.Tech by Research program		
Course Work Exams	December/January	June/July
Comprehensive Exam	Within 2 months after Course work is completed	
Open Seminar	Before submitting the M.Tech. by Research Dissertation Report	
Dissertation Submission	4 weeks after Open Seminar	

PES University
Central Library
User Manual

We are pleased to welcome you to PES University Central Library. We hope that the library's wide range of resources and services will support you in your learning and research. This guide introduces you to our library's policies and procedures, services, collection and facilities.

The Library provides access to a wealth of information-the books, journals and online databases that will play a key role in your learning and research.

The library staffs are committed to helping you any way they can. If you have any questions about the library, please ask the librarian@pes.edu.

Mission

To provide an innovative learning environment with technology, education and culture and to create a distinctive library experience through services and resources for students and faculty in their pursuit of academic excellence.

Timings

Monday to Saturday
8.00 AM to 9.00 PM

Circulation
Monday to Saturday
8.00 AM to 5.00 PM

Introduction

PES University Central Library was established in 1988. With a modest number of books and other documents since its inception, the library collection has steadily grown over the years. Presently, the collection has over 1 lakh documents, comprising an impressive and diverse range of information sources like books, journals, conference proceedings, project reports, institutional repositories, electronic resources like e-books, e-journals, CD-ROMs, standards, and cases, etc. The library is a part of the university that touches everyone—every student, faculty member, researcher, and person in every academic field. The library is committed to helping students and faculty become efficient and sophisticated researchers in a rapidly changing research environment.

Library Resources

Books-112157

E-books-12955

Print Journals-138

E-Journals-5278

Bound Volumes-4849

Project Reports-3891

CD-ROM's-7312

Special Collections on

Gandhian Studies

Kannada Books &

Rare Books

Lending Library

Facilities

Digital Library

Internet & Wi-Fi

Photocopy, Scan & Printing

Discussion Room

Quiet Study Space

Laptop Lounge

Property Counter

PES Libraries are organized as follows:

- Central Library located at the 1st floor of the Prof. MRD Silver Jubilee Block
- Lending Library facility located at the 1st floor, Panini Block
- Silent Reflections – Quiet Study Room at the 13th Floor, 'B' Block
- Faculty of Management Studies Library at the Ground floor, Tech Park
- Faculty of BBA/BHEM (Hotel & Event Management) Library at the 4th floor, Tech Park
- Faculty of Architecture & Design Library-9th floor, 'B' Block
- Faculty of Law Library, 5th floor, Panini Block

The Central Library functions as a centralized agency for the procurement of books, journals, and other documents required by all departments of the university and the learning community. Collection development is done based on the recommendations of the department heads and feedback received from students and faculty members.

Borrowing Facility

PES University students, staff and faculty can register themselves for the membership. Registered members can borrow library resources.

Loan quota: 3 Books for UG Students for a period of 14 days

Loan quota: 4 Books for PG Students for a period of 14 days

Renewals

All books loan from the circulation desk can be renewed on condition that there is no one requesting for the same items. All loans are subject to recall in accordance with library regulations. Borrowers are responsible for returning their loans on or before the specified due dates.

Rupees 1.00 per day per book (Rupees 5.00 per day after 10 days) will be collected for returning the books after the due date.

Reference / Referral Service

Reference materials like dictionaries, yearbooks, encyclopedias, handbooks, and manuals are available in the reference section. The library staff will help you find information that is available in-house.

Library OPAC

Online public access catalogue (http://library.pes.edu) provides search facility to locate books and other materials available in the library.

Online Reservation

Online reservations can be done through the web OPAC at http://library.pes.edu for a book that is already lent out. Reserved books will be kept separately on the circulation counter for 2 days for each reserved member.

Faculty Publications Repository

Faculty publications (Institutional repository) and other publications of the university are available online through the library OPAC.

Off-Campus Access to E-Resources

Students, faculty, and research scholars have the facility of off-campus access to many databases and e-journals by using a remote access server. To get a username and password, please send your request to librarian@pes.edu.

Plagiarism Check Software

PES University subscribes to two similarity check tools: Turnitin Feedback Studio and Original. You can send your reports, articles, or thesis for a plagiarism check to: original@pes.edu While sending the report for plagiarism check, you must include a CC to your guide.

Reprographic & Printing Service

Photocopying and printing facilities are available in the library at a reasonable cost. This service limited to library materials and for copying research articles published in journals, conference proceedings for academic and research work without violating the copy right law.

Document Delivery Service

The Central Library arranges photocopies of articles from journals and conference proceedings that are not available in its collection from different sources. This service is offered within the purview of copyright laws. To make a request, please email to librarian@pes.edu

Services

Circulation
Online Reservation
Reference Service
Information Desk
Inter Library Loan
Document Delivery Service
Newspaper Clippings
New Arrivals
Institutional Repository
Kindle E-Reader
Faculty Profiles (IRINS)

Digital Library

Institutional Membership

IISc, Bengaluru
NLSIU, Bengaluru
ISEC, Bengaluru
British Library, Bengaluru
DELNET, New Delhi
INFLIBNET, Ahmadabad
The Centre, UK

E-Resources

PES University has access to the following online resources. The resources include company/industry information, academic literature, eBooks, eJournals, magazines, case studies and videos.

AirOnline	ASME	Capitaline+	EPWRF
EBSCO	HeinOnline	IEEE	Indiastat.com
JSTOR	Manupatra	Pearson Ebooks	SCC Online
SAGE	CBS Ebooks	Mcgraw-Hill Ebooks	Wiley Ebooks

Silent Reflections

Inter Library Loan Service

Central library arranges to borrow documents, which are not available in its collection, on inter library loan from other libraries for academic and research purpose. This is done on an institution-to-institution basis. Members can send a formal request to the central library with complete bibliographic details of documents to librarian@pes.edu.

Library Orientation

As part of our user awareness program, the library regularly organizes orientation and training programmes on library resources and services. Members can meet the librarian for discussions, if any, everyday between 3.30 PM and 5.00 PM at Central Library.

Library Rules

- A person desirous of using the library facilities shall enter his or her name, SRN, department, and time of entry legibly and sign in the register kept at the library entrance for the purpose.
- Users have to deposit their bags at the library property counter.
- Silence, decorum, and discipline must be maintained in the library.
- Users should ensure that their cell phones are in switch-off or silent mode at all times in the library.
- Users should not mark, write on, or tear pages from library documents.
- Users shall be liable to pay for any damages caused by them to the library's books and property.

Contact Us

We value your feedback and suggestions. You may e-mail to librarian@pes.edu

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