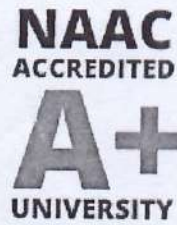


Rules and Regulations

APPROVED

For

The Doctor of Philosophy (Ph.D.) Programme



Research and Development Cell

VIVEKANANDA GLOBAL UNIVERSITY, JAIPUR

August - 2023

Approved at the 23rd Meeting
of the Academic Council
held on 28th July, 2023.



For Vivekananda Global University, Jaipur

[Handwritten Signature]
Registrar

1: INTRODUCTION

Vivekananda Global University, Jaipur has a strong commitment to high quality research and aims to enhance the professional competence of the scholar. The University offers Ph.D. (Doctor of Philosophy) Programme to the eligible scholars, who are interested in doing research.

This document provides information on Ph.D. Programme of the University for Full Time/ Part Time Ph.D. candidates. Every candidate is expected to follow the procedures laid down for fulfilling the requirements of Ph.D. Programme of the University & University Grant Commission (UGC).

This regulation explain important aspects of the program viz. admission procedure, registration, Semester- course work, implementation methodology, conduct of examination, submission of research proposal, appointment of supervisor/co supervisor, Ph.D. thesis submission, evaluation of scholar performance leading to the award of Ph.D. degree etc. The candidates admitted to the Ph.D. programme are expected to be aware of the basic philosophy of the academic program of the University. The University follows semester pattern and a candidate is required to register in the prescribed Ph.D. courses by filling the registration form and paying requisite amount of fees. He/she must also register for Ph.D. programme every year/semester till all the requirements of the programme are completed and the thesis is submitted. The candidate is supposed to plan his/her work and is evaluated continuously by the respective supervisor/s and/or the university. .

The paragraphs to follow give details about operational features of the programme, such as semester-wise registration pattern, requirements of various courses, pre-submission seminar and Ph.D. Thesis submission. Various proformas and checklists have also been appended and the same may be printed/ reproduced and used.

All the scholars and supervisors should refer to this document during the Ph.D. programme. This document is available on the University website www.vgu.ac.in and can also be downloaded.

2: RESEARCH BOARD:

In accordance to the Statutes of the VGU, Jaipur **Clause 9.**

3: Ph.D. PROGRAMME OFFERED

Doctoral Programme leading to Ph.D. will be offered in the various disciplines as per SCHEDULE II of the Act or approved by State Government u/s IV of the Act of the University.

4. ELIGIBILITY CRITERIA FOR ADMISSION TO Ph.D. PROGRAMME:

Subject to the conditions stipulated in UGC Regulations, the following persons are eligible to seek admission to the Ph.D. programme at VGU, Jaipur.

4.1 Candidates for admission to the Ph.D. programme shall have a A 1-year/2-semester master's degree programme after a 4-year/8-semester bachelor's degree programme or a 2-year/4-semester master's degree programme after a 3-year bachelor's degree programme or qualifications declared equivalent to the master's degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate or its equivalent grade in a point scale wherever grading system is followed

or equivalent qualification from a foreign educational institution accredited by an assessment and accreditation agency which is approved, recognized, or authorized by an authority, established or



Doctor of Philosophy incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assure quality and standards of the educational institution shall be eligible for admission to Ph.D. programme at the University.

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42 A relaxation of 5% of marks, from 55% to 50% or an equivalent relaxation of grade, will be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently-Abled and other categories of candidates as per the decision of the UGC from time to time, or for those who had obtained their Master's degree prior to 19th September, 1991. The eligibility marks of 55% (or an equivalent grade in a point scale wherever grading system is followed) and the relaxation of 5% to the categories mentioned above are permissible based only on the qualifying marks without including the grace mark procedures.

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

43 Candidates possessing a Degree considered equivalent to M.Phil. Degree **with at least 55% marks in aggregate or its equivalent grade in a point scale** of an Indian Institution, or of a Foreign Educational Institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institutions, shall be eligible for admission to Ph.D. programme at the University. **A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently-Abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.**

5. DURATION OF THE PROGRAMME:

5.1 Ph.D. programme shall be for a minimum duration of three years, including course work and a maximum of six years.

5.2 Extension beyond the above limits will be governed by **clause 11.2.**

5.3 The women candidates and Persons with Disability (more than 40% disability) may be allowed a relaxation of two (2) years for Ph.D. in the maximum duration however, **the total period for completion of a Ph.D. programme in such cases should not exceed ten (10) years from the date of admission in the Ph.D. programme.** In addition, the women candidates may be provided Maternity Leave/Child Care Leave once in the entire duration of Ph.D. for up to 240 days on production of relevant documents.

6. PROCEDURE FOR ADMISSION:

6.1 Ph.D. students will be admitted through an Entrance Test conducted by the University. The students who have qualified UGC-NET (including JRF)/UGC-CSIR NET (including JRF)/SLET/GATE/teacher fellowship holder or have passed M.Phil. will be exempted from the Entrance Test. The Entrance Test wherever required will, be of the standard of the UGC-NET/UGC-CSIR NET/GATE tests in the respective disciplines.



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62 The number of Ph.D. scholars to be admitted will be decided depending on the number of available Research Supervisors and other academic and physical facilities available, keeping in mind the norms regarding the scholar- teacher ratio (as indicated in Para 7.3), laboratory, library and such other facilities.

63 Notification well in advance in the University website or through advertisement in at least two national newspapers, of which at least one will be in the regional language indicating the number of seats for admission, subject/discipline-wise distribution of available seats, criteria for admission, procedure for admission, information about examination centre(s) where entrance test(s) to be conducted and all other relevant information for the benefit of the candidates would be provided in the notification.

64 The admission will be based on the criteria notified by the University, keeping in view the guidelines/norms in this regard issued by the UGC and other statutory bodies concerned, and taking into account the reservation policy of the Central/State Government as applicable to private university from time to time.

65 The candidates shall apply for the admission to Ph.D. programme using a prescribed form available at the University office. The application form dully filled-in by the candidate should be submitted alongwith required fee (as fixed by the University).

66 Candidates will be admitted through:

6.6.1 An Entrance Test (Written test 70% weightage, interview/Viva-voce 30% only) with the qualifying marks as 50%. The syllabus of the Entrance Test will consist of 50% of research methodology and 50% will be subject specific. The Entrance Test will be conducted at the Centre(s) notified in advance. A relaxation of 5 % marks will be allowed in the entrance examination for the candidates belonging to SC/ST/OBC/differently-abled category, Economically Weaker Section (EWS), and other categories of candidates as per the decision of the Commission from time to time.

6.6.2 An interview/*Viva-voce* will be organized when the candidates are required to discuss their research interest/area through a presentation before a duly constituted Departmental Research Committee (DRC).

67 The interview/*Viva-voce* will also consider the following aspects, viz. whether: 6.7.1 The candidate possesses the competence for the proposed research.

6.7.2 The research work can suitably be undertaken at the University.

6.7.3 The proposed area of research can contribute to the new/additional knowledge.

68 After interview, the selected candidates shall be admitted provisionally as Ph.D. scholars of the University on payment of the prescribed fee. The fee once deposited will not be refunded under any circumstances.

69 The DRC may initiate the process of registration of the scholar if exempted from prescribed course work, immediately after his/her admission as Ph.D. scholar.

6.10 The University will maintain the list of all the Ph.D. registered students on its website on year-wise basis. The list will include the name of the registered candidate, topic of his/her research, name of his/her supervisor/co-supervisor, date of enrolment/registration.

7. ELIGIBILITY & ALLOCATION OF RESEARCH SUPERVISOR:

71 Any full-time Professor and Associate Professor of the University with at least five research publications in refereed journals and any full-time Assistant Professor of the university with a Ph.D. degree and at least three research publications in referred journals will be recognized as Research Supervisor.

72 Only a full time regular faculty member of the University will act as a supervisor. The external supervisors are not allowed. However, Co-Supervisor can be allowed in inter- disciplinary areas from other departments of the same institute or from other institutions based on the approval of the Departmental Research Committee.

73 The allocation of Research Supervisor for a selected research scholar will be decided by the concerned Department depending on the number of scholars per Research Supervisor, the available specialization among the Supervisors and research interests of the scholars as indicated by them at the time of interview/*viva voce*.

74 In case of topics which are of inter-disciplinary nature where the concerned Department feels that the expertise in the Department has to be supplemented from outside, the Department may appoint a Research Supervisor from the Department itself, who shall be known as the Research Supervisor, and a Co-Supervisor from outside the Department/ Faculty.

75 The supervisor and co-supervisor are directly responsible for the supervision and mentoring the scholar's research activities. The supervisor is to provide counsel on all aspects of the programme and be involved in the scholar's research activities and progress. He/she/they is/are supposed to grade the progress of the research work of Ph.D. scholar under his/her/their supervision and communicate the same to the Dean, R&D for every semester (six month) in prescribed format till the submission of thesis.

76 A Research Supervisor/Co-supervisor who is a Professor, at any given point of time, cannot guide more than and 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 four (4) Ph.D. scholars.

Each supervisor can guide up to two international research scholars on a supernumerary basis over and above the permitted number of Ph.D. scholars as specified above. The teacher candidate will not be including the in maximum permitted number of Ph.D. scholars under seat matrix allocation of Supervisor.

77 In case of relocation of a Ph.D. woman 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 that all the other conditions in these regulations are followed in letter and spirit and the research work does not pertain to the project secured by the parent institution/ supervisor from any funding agency. The scholar will however give due credit to the parent guide and the institution for the part of research already done.

78 Change of Supervisor(s):

Addition/deletion/change of Supervisor/co-supervisor would be considered by the President on recommendation of the DRC through Dean, Research & Development under the following circumstances on request obtained from the scholar and or supervisor(s):

- (a) If the Supervisor of a scholar resigns the University before the completion of the research work or is otherwise unable to supervise the research work, due to some other valid reason(s),
- (b) Death of supervisor/ co-supervisor

8. COURSE WORK: Credit requirements for course work, number of papers, duration, syllabus, minimum standards for completion, etc are described below:

8.1 The Credit requirement for the Ph.D. coursework is a minimum of 12 credits, including a "Research and Publication Ethics" course as notified by UGC vide D.O. No. F.1-1/2018(Journal/CARE) in 2019 and a research methodology course.

8.2 The course work will be a prerequisite for Ph.D. study. A minimum of four credits shall be assigned to one or more courses on Research Methodology which could cover areas such as quantitative methods, computer applications, research ethics and review of published research in the relevant field, training, field work, etc. one course as an elective shall be advanced level subject specific course selected for preparing the students for Ph.D. degree.

8.3 All the courses prescribed for Ph.D. course work will be in conformity with the credit hour instructional requirement and shall specify content, instructional and assessment methods. They will be duly approved by the Academic Council.

8.4 The Department where the scholar pursues his/her research will prescribe the course(s) to him/her based on the recommendations of the DRC.

8.5 The course work prescribed by the DRC will have to be completed during the initial one or two semesters or within a period prescribed in UGC regulation.

8.6 The grades in the course work, including Research Methodology course will be finalized after a combined assessment by the DRC and the final grades will be communicated to the Dean, R&D.

8.7 The qualifying course work is compulsory for all scholars admitted to the Ph.D. programme. They shall be required to undertake the course work for a minimum period of one semester.

8.8 Candidates will be required to successfully complete the prescribed Ph.D. course work requirements, as specified in Annexure – I.

8.9 Apart from the course work which is compulsory to be cleared/ passed by each scholar, supervisor of the scholar may recommend one or more additional subjects related to his research problem, knowledge of which may be required to pursue the research. This part of the course work can be done in second semester along with the research.

8.10 In case, a scholar fails in the Ph.D. qualifying course work, he/she shall be given one more chance to appear in the examination scheduled to be held by the University. He/she will have to pay additional examination fee for it.

8.11 The course work will comprise of the following courses.

1. Research Methodology
2. Elective I
3. Literature Survey
4. Presentation
5. Research and Publication Ethics



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Elective I will be decided by the concerned DRC.

After the completion of the course work a proper comprehensive examination at the end of the semester will be held. The candidate has to earn 60% marks in each course. If any of the course above has been scheduled in the even term the candidate has to appear in the University exams during that semester.

8.12 After clearing the course work each eligible candidate shall submit his /her application for Ph.D. programme registration to the Head of the Department concerned.

8.13 In the convener ship of the Head of the concerned Department the Departmental Research Committee (DRC) shall examine the registration application and shall test the applicant through seminar to probe his knowledge in the subject and determine his suitability. His candidature as Ph.D. scholar will be confirmed after he/she has passed comprehensive examination and defended his/her Ph.D. thesis synopsis/ proposal. Under the guidance of provisional supervisor, the scholar will prepare the thesis synopsis as per the direction provided by the University and submit it to the Research Board (Annexure-II). The DRC will ascertain the suitability of the candidate as well as of the thesis/synopsis submitted and then forward the application along with the name/s of supervisor/s allotted to the candidate and the topic of research to the Research Board for approval. (To be sent in the format given as Annexure – III).

8.14 During the 2nd Semester of the Ph.D. programme the candidate has to opt for:

- a) Teaching Practice – 1 credit
- b) Ph.D. Seminar - 1 credit

Ph.D. seminar will be given before the DRC. While the exam of Teaching Practice will be held in a class for a particular topic to be taught for one or two hours in front of at least one expert and one supervisor/ co- supervisor of the candidate who will Grade/Satisfactory/Unsatisfactory) and send it to the Dean, R&D.

8.15 During the 3rd Semester and subsequent higher semesters the programme will be as given below:

1. Ph.D. Seminar – 1 credit.
2. Thesis work – 10 credits.

The Ph.D. seminar will be examined by the DRC concerned.

Note: A candidate has to earn minimum 40 credits of thesis work and 05 credits for the Ph.D. seminar and 01 credit for teaching practice before the submission of thesis.

9 DATE OF COMMENCEMENT OF RESEARCH WORK

The date of commencement of research work will not be earlier than the date of admission and not later than the date of registration letter issued by the University.

10: CANCELLATION OF REGISTRATION

Registration of a Research Scholar shall be cancelled in any of the following eventualities after the approval of the President of the University:

1. If he/she fails to keep in contact with the supervisor/s for a continuous period of six months without prior intimation/sanction of leave.
2. If he/she resigns from the Ph.D. programme.

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3. If he/she fails to renew his/her registration in any semester subject to provision of the rules of the University.
4. If his academic progress is found unsatisfactory.

If he/she is found to be involved in any act of misconduct and/or indiscipline and termination is recommended by the committee appointed by the President for this purpose.

11: DURATION

11.1 Every Ph.D. scholar shall submit his/her thesis after a minimum period of three years, (six semesters) from the date of his/her admission.

11.2 In case a candidate does not submit his/her thesis within the maximum prescribed period (six years), a **grace period of an additional two (2) years can be given through a process of re-registration by the President on the recommendation of the supervisor and Dean R&D.** However, the total period for completion of a Ph.D. programme should not exceed eight (8) years from the date of admission in the Ph.D. programme.

11.3 If the candidate fails to submit his/her thesis even during the grace period, he/she will not be permitted to submit the thesis on the same topic and may be required to apply for a fresh registration on the changed topic.

11.4 If a candidate has been registered as a scholar for Ph.D. degree in another University and has worked on the approved subject for not less than a year from the date of admission, he/she may be permitted by the Research Board on the recommendation of Departmental Research Committee, to register himself/herself as a research scholar of the University and may be allowed to submit his/her thesis in VGU in a period equivalent to minimum duration as per VGU regulation minus time spent on research in other University, OR a period of one year whichever is more. He/she must obtain a no-objection certificate from the previous university. He/she shall be liable to pay the minimum fee of Ph.D. course for two years. He/she may be exempted from appearing in the qualifying course work by the President on the recommendation of the DRC through Dean-R&D.

12. DEPARTMENTAL RESEARCH COMMITTEE AND ITS FUNCTIONS:

12.1 The Head of the Department/ Dean of faculty will convene the first meeting of the DRC for the session in which Research Supervisor/(s) of the scholar will be allotted. The concerned Research Supervisor will be the Convener of this Committee from then onwards. There will be a Departmental Research Committee, for each Ph.D. scholar. The Dean Research & Development and the Dean of the faculty concerned or their nominees will be Ex-Officio members of this committee. This Committee shall have the following responsibilities:

12.1.1 To review the research proposal and finalize the outline of the topic of the research;

12.1.2 To guide the research scholar to develop the research design and methodology of research and identify the course(s) that he/she may have to do.

12.1.3 To periodically review and assist in the progress of the research work of the research scholar.

12.2 All the proposals approved by the concerned DRC should be reviewed and approved by the Research Ethical Committee of the University. If, approved by the Research Ethical Committee then only the approval of the research proposal should be given to the scholar.

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12.3 A research scholar will appear before the Departmental Research Committee once in every semester six months to make a presentation of the progress of his/her work for evaluation and further guidance. The semester wise progress reports/Grade shall be submitted by the Supervisor to the Dean, R&D. The Grades for Ph.D. Seminar/ Ph.D. Thesis will be Satisfactory/Unsatisfactory

12.4 In case the progress of the research scholar is unsatisfactory, the Departmental Research Committee shall record the reasons for the same and suggest corrective measures. If the research scholar fails to implement these corrective measures, the Departmental Research Committee may recommend to the University with specific reasons for cancellation of the registration of the research scholar.

13. PREREQUISITES OF SUBMISSION OF THESIS

13.1. Every Ph.D. scholar shall submit his/her progress report at least once every six months/semester from the date of registration till the submission of his/her thesis to the University through his/her supervisor who will also award a Grade to the submitted report before forwarding it to the Dean, R&D.

13.2 The scholar shall publish at least three research papers on his /her research work in refereed National/International /UGC-Care/ SCI-Index Journals of repute before the submission of the thesis and produce evidence for the same in the form of acceptance letter or reprints. Published research papers should be included in the thesis as part of the bibliography.

13.3 The scholar may incorporate in his/her thesis, contents of any of his published papers and he/she should state this in clear terms in the thesis.

13.4 No scholar shall join any other course of study or appear at any examination while pursuing research. The President may, however, allow a candidate to appear in an examination or to attend a course in the University which is conducive to his research and is of minor nature, including improvement of any previous result.

13.5 The Research Board may allow a topic of research to be modified on the recommendations of DRC. But it should be done within one year from the date of registration.

14: THESIS:

14.1 The thesis shall comply with the following conditions to merit the award for the Ph.D. degree:

- (a) It should be an original piece of research work characterized either by the findings of new facts or by a fresh approach towards interpretation of facts and theories.
- (b) It should reflect the scholar capacity for critical examination and judgment.
- (c) It should be satisfactory in its literary presentation.

14.2 Upon the satisfactory completion of the course work and obtaining the marks/grade prescribed in the sub-clauses 8.12 to 8.17 above, as the case may be, the Ph.D. scholar will be required to undertake research work and produce a draft dissertation/thesis within the stipulated period. The draft thesis has to be prepared as per guidelines given in Annexure – IV.

14.3 Prior to the submission of the dissertation/thesis, the scholar will make a presentation before the Departmental Research Committee. The feedback and comments obtained may be suitably incorporated by the candidate into the draft dissertation/thesis in consultation with the



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supervisor/(s).

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144 A scholar, in addition to the conditions laid down above, may also submit a thesis based on the work in one or more of the following categories.

- (a) The candidate has constructed equipment capable of research grade measurements.
- (b) The candidate has designed and constructed equipment, which provides an innovative approach to the teaching and understanding of the fundamental principles relating to a class of phenomena.
- (c) The candidate has designed, developed and fabricated equipment and/or developed a process, which contributes to the Industrial/Technological self-reliance of the country.

Note: The candidate shall also present a detailed and critical report of the experimental work that he/she has carried out along with that of the equipment's developed.

15: THE SUBMISSION OF THESIS

15.1 After the thesis is complete, the candidate shall supply five/ six printed copies of the thesis in the prescribed color of cover page as indicated in annexure- V:

In addition, the candidate must submit a softcopy (CD) of his thesis in pdf format.

15.2 The thesis should be written in either American or British English.

15.3 The supervisor shall furnish a certificate indicating that the thesis contains substantial original work of the candidate. (Annexure – VI).

15.4 All the fee, dues, fines, etc. of the University must have been paid at the time of submission of the thesis. The scholar should also produce a *No Dues certificate* from all concerned departments of the University.

16: EVALUATION

16.1 The supervisor/s of the candidate will suggest a panel of eight to ten names of external experts not below the rank of Associate Professors providing their official and residential addresses, resume and published work relevant to thesis, mobile numbers and email addresses. The supervisor/s shall give a certificate to the effect that the names suggested in the panel are not relatives of the supervisor/s or candidate. At least four names in the panel must be from outside the State of Rajasthan but not more than two from any one State.

16.2 The panel prepared by the supervisor will be sent through the Dean, R&D to the President in a sealed cover. The President will appoint two examiners from the given panel, out of which at least one shall be from outside the state. If necessary, the President may call for additional names for the panel from the concerned DRC.

16.3 The thesis received shall be referred for evaluation to two examiners appointed by the President and to the supervisor(s).

16.4 The examiners shall send their reports in the prescribed Proforma (Annexure-VI) normally, within two months of the receipt of the thesis. The examiner will state categorically whether in his/her opinion:

- (a) The thesis is acceptable for the award of Ph.D. Degree;

OR

(b) The thesis requires suggested revisions/ modifications and resubmission

OR

(c) The thesis is rejected.

In the detailed report, the examiners shall state reasons for approval/revision/ rejection of the thesis. If the examiner recommends resubmission of the thesis, he/she shall specifically indicate what modifications he/she wants from that candidate need to incorporate in the thesis.

The examiners shall send their reports directly to the Registrar in a sealed envelope and marked as 'Confidential' by Registered post or in person.

165 The reports of all examiners shall be placed before the President. If all the examiners recommend award of the degree, the scholar shall be examined through Viva-voce examination by his/her supervisor and one of the external examiners, to be nominated by the President. If both external examiners are unable or unwilling to conduct the Viva-voce examination any name may be submitted from the panel for this purpose by the President.

166 A Viva-voce examination to be taken by one of the external examiner and the supervisor shall be held on the date to be fixed by the concerned Dean/HOD. The teachers and the research scholars in the department concerned may attend Viva-voce examination as silent observers.

167 If both the examiners recommend rejection of the thesis, the thesis shall straight away be rejected.

16.7.1 In case of non-recommendation or recommendation for additional work/major modification to the thesis, the President will advise the candidate and the supervisor to do further work/modifications as the case may be, in consultation with the DRC, will ask to resubmit the thesis after complying with the instructions.

16.7.2 In case the review suggest cancellation of registration of the candidate for poor quality research work or unacceptable practices such as plagiarism, President may, in consultation with the DRC and after giving due chance to the candidate to present the case, order cancellation of registration of the candidate.

168 If all the examiners are evaluating the thesis, as well as those conducting the Viva-voce examination recommend the award of degree to the candidate, the degree shall be awarded.

169 In case of divergence of opinion among the three examiners including supervisor not covered under clause/(s) above, the following procedure shall be followed:—

(a) If one of the external examiners reject the thesis, but other one recommends for the acceptance the President will appoint a third examiner from the panel.

(b) If two examiners have accepted the thesis, while the third has asked for its revision, the extracts of reports of the external examiners shall be referred to the supervisor of the candidate and his opinion be obtained as to whether he would like to get the thesis revised by the candidate or would recommend the appointment of a fourth examiner. Opinion of the fourth examiner shall be final. Fourth examiner will be appointed by the President from the panel of the examiners.

(c) If two examiners have accepted the thesis and? rejected it, the thesis shall be sent for evaluation to a fourth examiner, whose opinion shall be final.

(d) If one of the three examiners has accepted the thesis and other has rejected, while the third has



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asked for its revision, the revised thesis will be sent to the same examiner for evaluation. If the thesis is not approved again by the examiner, it shall be rejected straight away. When the



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thesis is rejected under such conditions, the candidate can get himself/herself registered afresh on the same subject.

(e) If the candidate fails to satisfy the Viva-voce examiners or if there is a divergence of opinion between the Viva-voce examiners, the candidate may be allowed to appear at a second Viva-voce examination on payment of the required fee, to be held not later than one semester from the date of first Viva-voce.

16.10 If a candidate is permitted to revise and re-submit his thesis, he shall be required to submit it not earlier than six months and not later than one year from the date of such permission along with the prescribed fee. The thesis so re-submitted shall be sent to the same panel of examiners including the?, if any, who evaluated the original one, for adjudication unless any one or more of them express inability to adjudicate. The President shall in such contingency appoint another external examiner or examiners, as the case may be, from the original panel. The thesis shall be accepted if at least three examiners recommend its acceptance.

17: A Candidate shall not be allowed to re-submit his thesis more than once.

18: A candidate whose thesis has been rejected may be allowed to register again for Ph.D. degree with changed topic.

19: The reports of all the examiners (including those of the Viva-voce) shall be placed before the President, by the Dean R&D for approval.(In the format given as Annexure –VII).

20. On successful defense of thesis

20.1 Recommendation of the Viva voce examination will be submitted for approval to the President. The candidate will be eligible for award of Degree of Doctor of Philosophy once the President has accepted the recommendations.

20.2 On receiving the approval of the President, and a No Dues Certificate regarding clearance of all dues the Dean, R&D will issue a Provisional Certificate to the candidate.

20.3 The Provisional Certificate will also state that the certificate has been issued in accordance with the provisions of UGC Regulations-2016 for the award of Ph.D.

20.4 The candidate will be awarded the Ph.D. Degree during the next convocation.

21. TREATMENT OF Ph.D. THROUGH PART-TIME MODE:

21.1 Part-time Ph.D. will be allowed provided that all the conditions mentioned in the extant Ph.D. Regulations are met.

21.2 The Higher Educational Institution concerned shall obtain a “No Objection Certificate” through the candidate for a part-time Ph.D. programme from the appropriate authority in the organization where the candidate is employed, clearly stating that:

- i. The candidate is permitted to pursue studies on a part-time basis.
- ii. His/her official duties permit him/her to devote sufficient time for research.
- iii. If required, he/she will be relieved from the duty to complete the course work.

22. DEPOSITORY WITH INFLIBNET/SHODHGANGA AS PER UGC NORMS:

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

23. WITHDRAWAL OF DEGREE

The Academic Council shall have the right to withdraw the awarded degree if plagiarism charges against the scholar are found true or otherwise on any other valid reasons.

24. COPYRIGHTS

VGU reserve the copyright with respect to all synopsis & thesis on which the University has awarded Ph.D. degree.

25. REMOVAL OF DIFFICULTIES

Notwithstanding anything contained in this Ordinance, the President may take such measures as may be necessary for removal of doubts/difficulties and to resolve any other extraordinary issue.

26. FEE

Fee to be paid by the candidate at the time of admission or annually or for extension or for evaluation etc., will be as laid down from time to time by the University.

27. THE ACT OF PLAGIARISM:

The Ph.D. scholar of the University, who has copied from another dissertation / thesis / book and submitted his/her thesis for degree, such thesis shall be forfeited and his / her Ph.D. registration shall be terminated from the University and also he / she shall be debarred to register for any other programme in the University. He/she shall also be liable for legal action for such plagiarism.

For the abetment of above such action knowingly, by the supervisor/s, the case will be placed before Academic Council for its consideration and necessary action will be taken against the supervisor(s).

28. CHECKLIST FOR PREPARING DRAFT THESIS

Ph.D. scholars/ supervisors must carefully review the following points before drafting the thesis. The thesis examiners shall also keep these points in view while reviewing the thesis.

Objectives, Scope and Limitations

1. Are the objectives clearly spelt out?
2. Are the objectives based on in-depth literature review?
3. Does the thesis clearly mention scope and limitations of research?

Literature Survey

4. Is the literature survey up-to-date and exhaustive?
5. Has the researcher referred international/national journals of repute?
6. Are the research gaps clearly identified?

Methodology

7. Is the methodology adopted described exhaustively?
8. Has the researchers mentioned all data sources?
9. Is the research methodology adopted up-to-date?

Results and Discussions

10. Are the outcomes of research discussed at length?
11. Has the candidate come out with addition of knowledge in the area of research?
12. Has the candidate published or intends to publish his/her work in international/national journals of repute?
13. Has the candidate presented his work in international/national conferences?

Conclusions and Future Scope of Work

14. Are the conclusions clearly spelt out?
15. Has the candidate mentioned specific contributions to the field of research?
16. Has the candidate mentioned future scope of work?

Literature References

17. Is the citation of references done in standard format?
18. Are all the references cited in the text?
19. Are the references relevant to and adequate for the thesis work?

Documentation of Thesis

20. Is the flow of writing logical?
21. Has the candidate made sections/subsections to explain his work?
22. Are the figures/tables presented neatly and clearly with proper and consistent captions?
23. Is the list of tables, figures, symbols/acronyms given in the thesis?
24. Has the candidate attached a proper acknowledgement?
25. Are the appendices appended properly to the thesis?
26. Has the candidate appended list of the papers published/presented in the thesis?
27. Has the candidate included brief biography of himself and his supervisor (about one page each) in the end of the thesis?

*Any rules/regulations not covered in this document related to Ph.D. programme of the University, the UGC guidelines/ regulations will be referred and the decision of the President of the University shall be final in such matter. **The President may approve any minor modifications if the operational needs require the same.***

ANNEXURE-I

UNIVERSITY CORE COURSE WORK FOR Ph.D. SCHOLARS

Objectives

1. To gain insights into how scientific research is conducted.
2. To help in critical review of literature and assessing the research trends, quality and extension potential of research and equip scholars to undertake research.
3. To learn and understand the basic statistics involved in data presentation.
4. To identify the influencing factor or determinants of research parameters.
5. To test the significance, validity and reliability of the research results.
6. To help in documentation of research results.

Expected Outcome

1. Ability to critically evaluate current research and propose possible alternate directions for further work
2. Ability to develop hypothesis and methodology for research
3. Ability to comprehend and deal with complex research issues in order to communicate their scientific results clearly for peer review.

PAPER-I:	RES101	RESEARCH METHODOLOGY
PAPER-II:	*	ELECTIVE I
PAPER-III:	RES102	LITERATURE SURVEY
PAPER-IV:	RES103	PRESENTATION
PAPER-V:	RES 117	RESEARCH AND PUBLICATION ETHICS



PAPER – I: RESEARCH METHODOLOGY**COURSE CODE: RES101****Credits: 04****Max. Marks-100****Program Outcomes (POs) for the Ph.D. programme:**

1. PO1: Possess a deep understanding of theoretical concepts and research methodologies in the chosen field of study.
2. PO2: Demonstrate advanced research skills, including the ability to design and conduct original research.
3. PO3: Analyze and synthesize complex information to contribute to the existing body of knowledge.
4. PO4: Communicate research findings effectively through scholarly publications and presentations.
5. PO5: Apply ethical principles in research and adhere to research integrity and academic standards.
6. PO6: Collaborate and work effectively in interdisciplinary and diverse research teams.
7. PO7: Develop leadership skills and the ability to mentor junior researchers and students.
8. PO8: Contribute to the advancement of the field through innovative research and critical thinking.
9. PO9: Apply research outcomes to real-world problems and inform policy and practice.
10. PO10: Demonstrate a commitment to lifelong learning and professional development.
11. PO11: Demonstrate effective communication skills both orally and in writing.
12. PO12: Employ appropriate technologies and methodologies to address research challenges.

Program-Specific Outcomes (PSOs) are outcomes for Ph.D. programme

1. PSO1: Apply Research Findings to Real-World Contexts: Students will be able to apply their research outcomes to address real-world problems and contribute to evidence-based decision-making in relevant fields.
2. PSO2: Adapt Research Methodologies to Specific Contexts: Students will have the ability to adapt and modify research methodologies to suit the unique requirements of their specific research areas and contexts.
3. PSO3: Contribute to the Advancement of the Field: Students will be able to make significant contributions to the advancement of knowledge in their respective fields of study through original and innovative research.



PAPER-1: RESEARCH METHODOLOGY

COURSE CODE: RES101

Credits: 04

Max. Marks-100

Research Methodology Course Outcomes (COs):

CO1: To understand the fundamental concepts of the research methodology and technique of defining a research problem.

CO2: To explain the importance of the literature review in research and various research designs.

CO3: Design and validate sampling designs, data collection, and measurement & scaling techniques.

CO4: Demonstrate proficiency in several parametric tests of hypotheses.

CO5: To explain the art of interpretation and the art of writing research reports.

Module I

Research Methodology: Introduction, Meaning of Research, Objectives of Research, Types of Research, Research Approaches, Research Process, Criteria of Good Research.

Defining the Research Problem: Research Problem, selection of research problem, Necessity of Defining the Problem, Technique Involved in Defining a Problem, An Illustration.

Module II

Reviewing the literature: Place of the literature review in research, improving research methodology, Broadening the knowledge base in the research area, enabling contextual findings, Review of the literature, searching the existing literature, reviewing the selected literature, developing a theoretical framework, developing a conceptual framework, writing about the literature reviewed.

Research Design: Meaning of Research Design, Need for Research Design, Features of a Good Design, Important Concepts Relating to Research Design, Types of different Research Designs, Basic Principles of Experimental Designs, Important Experimental Designs.

Module III

Design of Sample Surveys: Sampling: Introduction, Meaning and types of sampling, Sampling and Non-sampling Errors, Sample Survey versus Census Survey, Types of Sampling Designs, Probability and Non-Probability.

Data Collection: Introduction, Experimental and Surveys, Collection of Primary Data, Collection of Secondary Data, Selection of Appropriate Method for Data Collection, Case Study Method.

Measurement and Scaling: Qualitative and Quantitative Data, Classifications of Measurement Scales, Goodness of Measurement Scales, Sources of Error in Measurement, Techniques of Developing Measurement Tools, Scaling, Scale Classification Bases, Scaling Technics, Multidimensional Scaling, Deciding the Scale.

Module IV

Testing of Hypotheses: Hypothesis, Basic Concepts Concerning Testing of Hypotheses, Test Statistics and Critical Region, Critical Value and Decision Rule, Procedure for Hypothesis Testing, Hypothesis Testing for Mean, Proportion, Variance, for Difference of Two Mean, for Difference of Two Proportions, for Difference of Two Variances, Limitations of the Tests of Hypothesis.

Module V

Interpretation and Report Writing: Meaning of Interpretation, Technique of Interpretation, Precaution in Interpretation, Significance of Report Writing, Different Steps in Writing Report, Layout of the Research Report, Types of Reports, Oral Presentation, Mechanics of Writing a Research Report, Precautions for Writing Research Reports.

Reference Books

1. CR Kothari. Research Methodology Methods and Techniques, 2/6, Vishwal rakashan, 2006
2. Donald H McBumey, Research Methods. 5th Edition, Thomson Leuming. ISBN: 1-315-0047-0.2006
3. Shumway and Stoffer. Time Series Analysis and its applications, Springer-2000
4. Bendat and Persol - Random data: Analysis and Measurement Procedures, Wiley Interscience, 2001
5. Richard Levin and David S Rubin-Statistic for Measurement, 7le Pearson Education, 2005
6. Donald R. Cooper, Pamela S. Schindler, Business Research Methods, Ne, Tata McGraw-Hill Co.LA 2006
7. Fuzzy Logic with Enge Applications, Timothy J.Row Wiley Publications, 2nd ErdX
8. Simulated Annealing: Theory and Applications (Mathematics and its Applications, by PJ. Van Laarlab PPROVED E.Har) Glona
9. Genetic Algorithms in Search, Optimization, and Machine Learning by David Goldberg

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1							1	1		
CO2		3	1			2						
CO3	1	1	3	1				2				
CO4	1	1	1	3				1				
CO5								1				2

	PSO1	PSO2	PSO3
CO1	2		
CO2			2
CO3		3	
CO4		1	
CO5	1		

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MODE OF EVALUATION: Evaluation by course teacher – Internal Assessment (40% Marks) and Term End written examination (60% Marks): 100 Marks and Two hours duration

Internal Assessment: 40 marks

Assignment: Two assignments, 20 mark each.

The expectations from the assignment are as follows:

Demonstration of novelty/originality/new understanding/marshalling existing ideas in ways that provide new insights in research.

Demonstration of suitable and systematic methods to be used to evaluate the chosen hypothesis.

Demonstration of knowledge, understanding, and appreciation of the field.

Demonstration of Style and substance of presentation.

Term End Examination: 60 Marks

The examination would be designed to test the scholars on their knowledge and skills pertaining to research methodology.



PAPER-II: ELECTIVE I***Credit* :****Max. Marks-***

The syllabus and paper will be finalized by the DRC before the commencement of the course work in the session.

MODE OF EVALUATION: Evaluation by course teacher

PAPER-III: LITERATURE SURVEY**COURSE CODE: RES102****Credit: 4****Max. Marks-100**

This course is Self Reading. Scholar is to study the current trends in the area of his/her research field. Based on this study he/she will plan the specific/ novel topic in the field for his/her Ph.D. research proposal.

PAPER-IV: PRESENTATION**COURSE CODE: RES103****Credit: 4****Max. Marks-100**

A Seminar Presentation of not more than 20 minutes.

Seminar presentation must be highlighting *why* the topic chosen is important, *status of the current knowledge* in the field, *the gaps in the available knowledge*, *methodology* you would like to adopt to address the perceived gaps, and the *probable conclusions* your research may yield which can add to the current knowledge in the appropriate field. This presentation must be submitted in front of experts for evaluation. (50 Marks)

Scholar is to prepare study report of two current research papers related to the area of Ph.D. topic and submit to the University at the end of semester. Report on each paper should be about 25 pages. (25 Marks per Research Papers = 50 Marks)



PAPER-V: RESEARCH AND PUBLICATION ETHICS
COURSE CODE: RES117 **Credits: 02**

Marks-100

Module I: PHILOSOPHY AND ETHICS

1. Introduction to philosophy: definition, nature and scope, concept, branches
2. Ethics: definition, moral philosophy, nature of moral judgments and reactions

Module II: SCIENTIFIC CONDUCT

1. Ethics with respect to science and research
2. Intellectual honesty and research integrity
3. Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP)
4. Redundant publications: duplicate and overlapping publications, salami slicing
5. Selective reporting and misrepresentation of data.

Module III: PUBLICATION ETHICS

1. Publication ethics: definition, introduction and importance
2. Best practices / standards setting initiatives and guidelines: COPE, WAME, etc.
3. Conflicts of interest
4. Publication misconduct: definition, concept, problems that lead to unethical behaviour and vice versa, types
5. Violation of publication ethics, authorship and contributor ship
6. Identification of publication misconduct, complaints and appeals
7. Predatory publishers and journals

Module IV: OPEN ACCESS PUBLISHING

1. Open access publications and initiatives
2. SHERPA/ROMEO online resource to check publisher copyright & self-archiving Policies.
3. Software tool to identify predatory publications developed by SPPU
4. Journal finder /journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggested, etc.

Module V: PUBLICATION MISCONDUCT

- A. Group Discussions (2 hrs.)
1. Subject specific ethical issues, FFP, authorship
 2. Conflicts of interest
 3. Complaints and appeals: examples and fraud from India and abroad
- B. Software tools (2 hrs.)
 Use of plagiarism software like Turnitin, Urkund and other open source software tools

Module VI: DATABASES AND RESEARCH METRICS

- A. Databases (4 hrs.)
1. Indexing databases
 2. Citation databases: Web of Science, Scopus, etc.
- B. Research Metrics (3 hrs.)
1. Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score
 2. Metrics: h-index, g index, i10 index, altmetrics

References

- Bird, A. (2006). Philosophy of Science. Routledge.



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- MacIntyre, Alasdair (1967) A Short History of Ethics. London.
- P. Chaddah, (2018) Ethics in Competitive Research: Do not get scooped, do not get Plagiarized, ISBN 97 8-93 874808 65
- National Academy of Sciences, National Academy of Engineering and Institute of Medicine (2009). On Being
- a Scientist: A Guide to Responsible Conduct in Research. Third Edition National Academies Press.
- Resnik, D. B. (2011). What is ethics in research & why is it important. National Institute of Environmental Health Sciences, 1-10. Retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm>
- Beall, J. (2012). Predatory publishers are corrupting open access, Nature, 489(7415), 179- 179. <https://doi.org/10.1038/489179a>
- Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019).
- ISBN: 978-81-939482-L-7. <http://www.insaindia.res.in/pdf/Ethics Book.pdf>

Teaching Practice	Course Code: RES104	Credit 1
Ph.D. Seminar	Course Code: RES105	Credit 1
Thesis work	Course Code: RES106	Credit 10



ANNEXURE-II

VIVEKANANDA GLOBAL UNIVERSITY, JAIPUR
FORMAT FOR OUTLINE OF PROPOSED TOPIC OF RESEARCH FOR Ph.D. DEGREE
(TO BE SUBMITTED IN DUPLICATE BY RESEARCH SCHOLAR)

1. Name of Scholar:
2. Registration number:
3. Title of the Research Topic (Max. 25 words):
4. Faculty/Department/Subject:
5. Objective and Scope of the Research (Approx. 500 words):

(Clearly state and explain your research idea. This may take the form of a hypothesis. Provide a short over view of your proposed research- the key issue(s) that you wish to investigate. Ph.D. is an original piece of research, so you should demonstrate that your proposed topic has not been studied before or you are taking new perspective on the issue.)

6. Proposed Methodology (Approx. 200 words):

(Identify- how are you going to access the material and possible research methods or techniques that you will use, include some reflection on potential problems that you may face in the research process .Specify the limitation of planed methodology for investigation)

- 7.Importance of Proposed Research Investigation/ Expected outcome (Approx. 200 words):

(Establish the relevance and value of proposed research in the context of current academic thinking. Provide in brief why proposed work is important and where outcome of investigation is expected to be used.)

8. Review of the work related to the field of Research- already done on the subject -Present and Past Status (Approx.200 words):

(Ground your research in existing literature. Reflect some major debates and issues and to show you're familiar with some of the main works addressing the research issues you are proposing- demonstrating your understanding of research issues.)

9. Research Gaps identified in the proposed field of investigation - Based on review (Approx. 100 words):

(Identify existing gaps – both Theoretical and Practical that your research is intended to address.)

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10. Chapter wise details of Proposed Research Investigation - Ph.D. Thesis:

(Title of each chapter along with expected contents must be prepared in advance. It should be concise and unambiguous.)

11. Expected duration of the investigation (Year wise schedule to be given):

(Provide a realistic time plan for completing your research degree. Demonstrate that your research will not take longer than planned time.)

Facilities available for the investigation at scholar end and facilities required on campus:

Bibliography- At least 50 relevant references (Update):

(It is unlikely that you can review all the relevant literature at this stage but you should be able to reflect issues you have proposed for investigation and work done/in progress by other researcherson related issues.)

NAME AND SIGNATURE OF SCHOLAR

DATE:



ANNEXURE-III

Proforma for Approval of the Title (preferably to be typed and sent to DRC)

Date: _____

Candidate's Name : _____

ID No. : _____

Address : _____

To,
The Chairman
Research Board, VGU, Jaipur

Sub: Approval of the Title of Thesis
Through : Supervisor(s) & Dean, R&D

Dear Sir,

I am submitting herewith the title of my Ph.D. thesis for the consideration of the

Research Board. The proposed title is as given below:

My topic of research approved by the DRC Vide minutes No. _____

Dated _____ was: _____

The title may please be approved by the Research Board.

Yours faithfully,

(Signature of Student)

Recommendations of the supervisor(s)

Forwarded by DRC, Convener

(Signature of supervisor(s))

(Signature of DRC Convener)

Recommendation of Research & Development Cell

Dean, R&D



ANNEXURE-IV

GENERAL GUIDELINES FOR THESIS WRITING

(Note: Any individual department may refine this format and can modify/add additional information as part of thesis)

FORMAT OF THESIS

1. Preliminary pages (page i, ii, iii...):

- Inner Title page
- Certificate
- Acknowledgement
- Table of contents
- List of publications
- List of tables
- List of figures
- List of abbreviations

2. The main body (pages 1, 2, 3...) is divided as follows:

- Introduction
- Literature Review
- Materials and Methods
- Results and Discussion
- Conclusions
- Recommendations
- References
- Appendices
- Brief bio-data (one page only)

DESCRIPTION OF THE DIFFERENT SECTIONS OF A THESIS

General guidelines

- An established font of 12 Times New Roman and paragraph style must be followed consistently throughout the thesis.

Type 1½ space throughout the text on both the sides of the paper.

- Margins: 38 mm from the left edge of the paper, 25mm from the top, bottom and right edge for A4 size paper.
- Units and symbols should conform to the international system of units.

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- Avoid the use of jargon, nouns as adjectives, split infinitives, improper matching of subjects and verbs, changes of tense in mid-paragraph and redundancy and verbosity. More than a very few errors in spelling or typography leave an impression of carelessness on the examiners.

Outer Title Page

- Title of thesis.
- Ph.D. Thesis.
- Name of scholar with registration number.
- University logo
- Place of submission.
- Month and year of submission (Example: May, 2014).

Inner Title page

Title of thesis.

- The following statement must also appear: This thesis is submitted as a partial fulfillment of the Ph.D. programme in science or Engineering.
- Name of scholar with registration number.
- University logo
- Place of submission.
- Month and year of submission (Example: May, 2014).

Short summary of Thesis:

This section will contain statement of the problem, methods of investigation, major findings and main conclusion along with chapter outlines.

Introduction

This section will contain general introduction, scope of the work, objective of the research study.

Literature Review

This section will contain a critical review of the literature, pertinent theory, experiment and the importance of the chosen problem.

Methodology

This section contains the research methodology of the test methods used (If applicable).

Results and Discussions

- Brief description of the methodology, primarily the experimental design.
- The text should describe the results.
- The figure and table legends contain
 - Short title.
 - Description of the symbols (if applicable).
 - Description of the statistics used (if applicable).
- The figure or table and their legend should appear on the same page.
- Avoid repeating a description of the results – keep the description of the results in the body of the



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results section and not in the figure or table legend.

- Emphasize the most important contributions of the research. The discussion must not merely recapitulate results or review the literature.
- It is essential to discuss the research in relationship to the literature and to assess the significance of the findings.

Conclusions

This section contains the major findings and main conclusions.

References

There must be only one reference list for the entire thesis in order of citation in the body of thesis.

Appendices

This section can contain tables and figures of data that are necessary to show but not the part of the thesis.

In the end of thesis, give copy of Research publications published by scholar during research work.

NOTE:- The above guidelines are general of nature and writing style of thesis will vary from department to department and nature of work carried out.



Annexure-V

The thesis in the prescribed color of cover page as mentioned below:

Faculty of Management -	Yellow
Faculty of Engineering and Technology -	Light Green
Faculty of Basic Sciences –	Sky Blue
Faculty of Agriculture –	Green
Faculty of Humanities & Social Sciences–	Navy Blue
Faculty of Law –	Black
Faculty of Design -	White
Faculty of Architecture & Planning –	Grey
Faculty of International Trade & Commerce –	Brown
Faculty of Hospitality-	Pink
Faculty of Pharmaceutical Science and Nursing –	Red
Faculty Computer Science & Applications –	Silver



Annexure-VI

(DESIGN OF COVER PAGE OF Ph.D. THESIS TO BE SUBMITTED TO THE UNIVERSITY)

Design and Evaluation of Electric Power Theft Detecting Microprocessor Based System

THESIS

Submitted in partial fulfillment
of the requirements for the degree of

DOCTOR OF PHILOSOPHY

by

SANJAY SHARMA

(Reg. No.)



VIVEKANANDA GLOBAL UNIVERSITY, JAIPUR

(Faculty)

(Department)

Under the Supervision of

Dr. Subodh Srivastava

Faculty of Basic and Applied Sciences

(Department of Physics)

Vivekananda Global University, Jaipur

December- 2019



Declaration by the Candidate

I, hereby declare that the work presented in this thesis titled..... in partial fulfillment of the requirements for the award of Degree of Doctor of Philosophy, submitted in the Faculty ofat Vivekananda Global University, Jaipur, is an authentic record of my own research work under the supervision of I also declare that the work embodied in the present thesis:

- (i) Is my original work and has not been copied from any Journal/thesis/book.
- (ii) Has not been submitted by me for any other Degree/Diploma in any University.

(Signature of the Candidate along with name)

Registration No:.....

(Counter signature of supervisor)

Name:

Faculty:

Date:



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Vivekananda Global University, Jaipur

Format of Certificate from the Thesis Supervisor to be incorporated in the Thesis

**VIVEKANANDA GLOBAL UNIVERSITY, JAIPUR
CERTIFICATE**

This is to certify that the thesis entitled _____

and submitted by _____ ID No _____ for award of Ph.D. of
the Institute embodies original work done by him/her under my supervision.

Signature of the Supervisor

Name in capital letters

Designation

Date:



Certificate

This is to certify that the thesis titled"....." submitted by for the award of Degree of Doctor of Philosophy in the faculty of.....of Vivekananda Global University, Jaipur, is a record of authentic work carried out by him/her to the best of my knowledge.

The matter embodied in this thesis is the original work of the candidate and has not been submitted for the award of any other degree/ diploma in any university. It is further certified that he/she has worked under my guidance for the required period as per the university rules.

Signature of the Supervisor

.....
.....
.....

Date:

I have examined the viva voce of the candidate on date... and recommend to award of Ph.D. degree.

Signature with Name

Name:

Address:

.....
.....

E-Mail:



ANNEXURE-VII

Vivekananda Global University

Ph.D. Examiner's Report Form

Name of the candidate	
Title of the Thesis	

Please note that this form should be accompanied by a report commenting on the strengths and weaknesses as well as specific suggestions for the improvement of the thesis as per the guidelines given in the covering letter. This recommendation form is to mainly facilitate the Dean, in deciding appropriate action. Please tick (✓) one of the option below.

“My recommendations are as follows” (Tick Only ONE)

Category-I	a) The thesis is recommended	“The thesis is recommended for award in its present form”	
	b) The thesis is recommended	“The thesis be accepted for the award after minor revision/queries” (Revisions/queries would be addressed during the Viva-voce examination)	
Category-II	c) A revision is proposed in the Thesis	“I reserve my decision based on response of the candidate to the major revision/queries requiring rewriting a portion/chapter of the thesis incorporating some additional work” (Please note that the response of the candidate would be sent to you for final decision, between Category I and III)	
Category-III	d) The thesis is not accepted	“The thesis is to be rejected”	

Name of Examiner:

Signature with Date:

APPROVED

VIVEKANANDA GLOBAL UNIVERSITY, JAIPUR
RESEARCH & DEVELOPMENT CELL (Ph.D. PROGRAMME)
(Information to be supplied at the time of the submission of Draft Thesis)

Name & ID No. of Student:

Name of the supervisor(s): _____

Title of thesis (as approved by the DRC)

1. (a) Date of first registration in the Ph.D. programme : _____

(b) If more than five years have been taken, please give:

(i) Extension of time granted upto _____

(ii) Minutes No. & date on which the last extension was granted: __

2. Date of passing the Ph.D. qualifying examination _____

3. Date of thesis title approval _____

4. Current Semester/Term Registration: I/II/ Summer Term 20 - 20

Signature of the Supervisor(s)

Signature of the student

Date & Place: _____

Date & Place: _____

Enclosure: - Two copies of Draft Thesis



APPROVED

Checklist for Pre-Submission Seminar on Ph.D. Thesis

1. Completion of units in Ph.D. Thesis course work.
2. Completion of the research work and preparation of thesis duly checked and certified by your supervisor(s) following the guidelines for preparing the draft thesis.
3. Submission of two copies of the thesis for review by the members of the DRC.
4. Obtaining the comments of the members of DRC on the thesis.
5. Preparation of presentation for approximately 30 to 35 minutes using Power Point.

The presentation must cover the following...

- Objectives and Scope of the Study
 - Literature review (briefly 2-3 slides only)
 - Identification of the research gaps based on literature review
 - Problem Formulation
 - Research Methodology
 - Experimentation/ Data Collection/Analysis
 - Results and discussion
 - General Conclusions
 - Specific Conclusions /Contributions of the research
 - Further Scope of Research
6. Clearing of dues till date of the seminar
 7. Clearing of pending grades, if any
 8. Informing the presentation
 9. Noting the corrections/suggestions, if any, for necessary action during pre-submission seminar
 10. Collecting necessary Proforma for Thesis Submission and Prospective Examiners information.
 11. Plagiarism report.
 12. Research Papers.

Checklist for Thesis Submission

Sr.No	Particulars	
1	Registration in the semester of thesis submission.	
2	Clearing all pending dues, if any	
3	Clearing all pending grades, if any	
4	Completion of in Ph.D. Thesis course	
5	Correctness of name and ID as per R&D records	
6	Approval of the Thesis title by the Research Board	
7	Pre-submission seminar before the DRC	
8	Correctness of thesis title as approved by the Research Board	
9	Submission of 4 hard bound copies and Soft copies of thesis (in a single PDF format) and synopsis written on a CD	
10	Submission of 5 copies of synopsis of the thesis	
11	Necessary instructions for title page and certificate are followed or not	
12	Submitting Demand draft for 'Thesis examination fees' in favor of the University	
13	Submission of sealed envelope containing names, communication details and brief bio-data of at least 8 eminent as prospective thesis examiners to be given by the supervisor(s) through DRC	
14	Submission of Proforma Thesis duly filled in and signed by candidate and supervisor(s)	
15	Plagiarism Report	
16	Research Papers	
17	Progress Report each semester	

VIVEKANANDA GLOBAL UNIVERSITY, JAIPUR

RESEARCH & DEVELOPMENT CELL (Ph.D. PROGRAMME)

Name of the Student _____ ID No _____

Name of the Supervisor(s) _____

Title of Thesis _____

I am here by submitting my thesis in accordance with the Clause of Academic Regulations.

Countersigned by the Supervisor(s)

Students signature

Date: _____

Date: _____

Address:

Address:

Enclosures:

- 1. 5 copies of Thesis
- 2. Soft copies of the thesis (as single pdf file) and synopsis in CD
- 3. 6 copies of Synopsis of Thesis
- 4. Letter of supervisor giving names and addresses of at least eight eminent persons to be on the panel of examiners
- 5. Fee Receipt

(For Research & Development Cell (Ph.D. Programme) use only)

Thesis received on _____

Draft /Cheque No _____ dated _____ for Rs. _____

(Deposited vide receipt No. _____ dated _____)

Thesis returned for want of _____



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Vivekananda Global University, Jaipur

The Thesis detained for want of _____

Verified the following:

The requirements of Clause of the Academic Regulations

The title of the thesis approved vide DRC meeting dated. _____

The thesis forwarded to the Registrar on _____

(Dean R&D)

Vital Information of Examiners Proposed for Ph.D. Thesis

(To be submitted by the Supervisor. Should contain information on at least 8 thesis examiners approved by DRC)

Full name, with title	
-----------------------	--

Contact info:

Email address	
Phone no, with country, city codes	
Postal address, complete with pin code	

Highest degree, complete with Year, Discipline, University, City:

Degree, with year	
University	
Specialization, with sub-specialization	

Current position:

Employer	
Position(s)	
Responsibility(ies)	
Research specialization, with sub-specialization	

Post-PhD experience:

Teaching	
Research, development or innovation	

Publications (numbers only):

Total, books	
Total, chapters in books	



Total, in peer-reviewed journals published abroad	:	
Total, in peer-reviewed journals published in India	:	
Total, in peer-reviewed conferences held abroad	:	
Total, in peer-reviewed conferences held in India	:	

List below 4 to 8 recent, representative publication relevant to thesis topic (complete with authors, title, journal, publisher, vol. no., year, page nos.:

1	
2	
3	
4	
5	
6	
7	

Signature of the Supervisor

Signature of the DRC Convener

Signature of the HOD

Name

Name

Name



ANNEXURE-VIII

VIVEKANANDA GLOBAL UNIVERSITY, JAIPUR

Viva-voce Examiner report form

Name & ID No. of Student: _____

Name of the supervisor(s): _____

Title of thesis (as approved by the DRC)

Our recommendations are as follows:

External Examiner

Supervisor

Signature with Date:

Signature with Date:

Dean

Head of the Department



ANNEXURE-IX

The set of regulations, on the approval by the Academic Council, shall be binding on all parties concerned including the scholars undergoing Ph.D. programme and Faculty concerned, Staff, Department and University authorities.

In order to guarantee the fairness and justice to all the concerned parties, in view of the periodic evolutionary refinements, any specific issues or matters of concern shall be addressed separately, by the appropriate authorities, as and when found necessary.

The effect of year to year (periodic) refinements in the Ph.D. Regulations for the scholar admitted in earlier years shall be dealt with appropriately and carefully, so as to ensure that those scholars are not subjected to any unfair situation whatsoever, although they are required to conform to these revised set of Regulations, without any undue favour or considerations.

The Academic Council may consider any issue or matters of concern relating to any or all the Academic Activities of the University, for appropriate action, irrespective of whether a reference is made (or the nature and extent of any reference if so present) to the set of regulations or otherwise.

This manual sets out the procedure and requirements of the Ph.D. programme of study that fall under the jurisdiction of the Academic Council, VIVEKANANDA GLOBAL UNIVERSITY, JAIPUR. Further, any legal dispute arising from this set of Regulations shall be limited to the legal jurisdiction determined by the location of the University and not that of any other parties.

ANNEXURE- X**Ph.D. Programme Examination Scheme****I Semester**

S.No.	Course Code	Name	L	P	T	Total Credits	Internal	External	Total
1.	RES101	Research Methodology	4	0	0	4	40	60	100
2.	*	Elective - I	*	*	*	* as per the specific program	*	*	*
3.	RES102	Literature Survey	0	4	0	4	60	40	100
4.	RES103	Presentation	0	2	0	2	60	40	100
5.	RES117	Research and Publication Ethics	2	0	0	2	40	60	100

II Semester (Assessment)

S.No.	Course Code	Name		Credits
1.	RES104	Teaching Practice	Class teaching	1
2.	RES105	Ph.D. Seminar	DRC Presentation	1
Total				

III Semester (Assessment)

S.No.	Course Code	Name		Credits
1.	RES105	Ph.D. Seminar	DRC Presentation	1
2.	RES106	Thesis Work		10
Total				

IV Semester (Assessment)

S.No.	Course Code	Name		Credits
1.	RES105	Ph.D. Seminar	DRC Presentation	1
2.	RES106	Thesis Work		10
Total				

V Semester (Assessment)

S.No.	Course Code	Name		Credits
1.	RES105	Ph.D. Seminar	DRC Presentation	1
2.	RES106	Thesis Work		10
Total				



VI Semester (Assessment)

S.No.	Course Code	Name		Credits
1.	RES105	Ph.D. Seminar	DRC Presentation	1
2.	RES106	Thesis Work		10
Total				

Note 1: Minimum Pass Marks 60% in total in I Sem.

Note 2: Elective I will be decided by the DRC of the candidate for which course code will be applicable as in the concerned programme.

Note 3: During II and higher semesters (III, IV, V and higher) the scholar will be examined and awarded either S or X grade (S-Satisfactory & X- Unsatisfactory) by the concerned supervisor and sent to Examination cell through Dean, R&D office.

Note 4: A candidate has to earn minimum 40 credits of thesis work and 5 credits for the Ph.D. seminar and 1 credit for teaching practice before submission of thesis. Hence the PhD programme may extend to higher semesters i.e. VII, VIII, IX, X, XI, XII, i.e. up to 6 years (Maximum duration as per UGC norms).



ANNEXURE- XIGrades and Grade Points applicable to Ph.D. programme

Grades and Grade Points			
Academic Performance	Grades	Grade Points	Marks%
Outstanding	AA	10	≥ 90-100
Excellent	A	9	≥ 80- <90
Very Good	BB	8	≥ 70- <80
Good	B	7	≥ 60- <70
Not Cleared	NC	0	<60
Incomplete (Absent)	I	-	-
Withdrawal	W	-	-
Grade Awaited	GA	-	-
Satisfactory	S	10/1	-
Unsatisfactory	X	0	-

1. 'I' grade refers to an 'incomplete' grade, which is required to be converted into a regular letter grade. A scholar may be awarded the grade 'I' (Incomplete) in a semester if he/she has remained absent in the end semester examination, for a genuine reason which is in the knowledge of university. The scholar concerned shall have to present his/her work to the DRC latest by 8 weeks or before the beginning of the next semester.
2. 'W' Grade refers to withdrawal from the course.
3. 'GA' refers to withholding of result of the scholar for various reasons like:
 - (i) Where a case of indiscipline is pending;
 - (ii) Where some criteria of Registration remains to be fulfilled.



- (iii) Where the scholar is nominated or represents the University with prior permission at State/ National/ International level and as a result thereof, has not been able to appear in the end term exam.

In these circumstances, the Dean, R&D may make a specific authorization for the supervisor/guide to report 'GA' (Grade Awaited). The Dean, R&D above will also simultaneously advise COE the estimated time by which the grades will be received, who will further advise Registrar the estimated time by which the grades will be received. (Grades to be received within 4 weeks).

- (iv) Whenever the report 'GA' appears in the grade card, permission for further registration of such a student will be acted upon by the Registrar on the recommendation of the Dean, R&D.

4. 'NC' grade refers to a condition when the student has 'Not Cleared' the course he/ she registered for during the semester.

- (i) 'NC' grade may also be given in the following conditions:

a) Where a scholar continued to remain registered in a course but gave the supervisor inadequate opportunity to evaluate him/her by absenting from the components of evaluation, or

b) When a scholar is marked three times for unsatisfactory (X) grade it will be treated as 'NC' & the scholar has to register again in the Ph.D. program.

- (ii) It is to be noted that an 'NC' cannot be ignored, except under the situations described in (b) below:

a. Whenever a scholar gets an 'NC' in the course which is in the Core courses of the programme the scholar is required to again register in the same course and get a valid grade therein.

b. The grades points for satisfactory (S) may be 1 or 10 as applicable and for unsatisfactory (X) it will be 0.