

National Forencie Sciences University

National Forensic Sciences University (An Institution of National Importance under Ministry of Home Affairs, Government of India)



Date: 28/3/2023

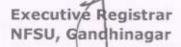
No: ADM/NFSU/ACNotification/1429/2023

Read:

- University Grants Commission (Minimum Standards and Procedure for Award of M.Phil/Ph.D Degrees) (1st amendment) Regulations, 2018
- 2. Faculty of Doctoral Studies & Research Meeting dated 1/3/2023 Resolution 1
- Academic Regulations for Ph.D. Programme (R.Ph.D.) 2015
- 4. Academic Council Meeting dated 27/3/2018 Resolution 6
- 5. Academic Council Meeting dated 17/3/2022 Resolution 6(A)
- Academic Council Meeting dated 2/3/2023 Table Agenda Item 1 Table Agenda Resolution No 1

NOTIFICATION

It is hereby informed to all concerned that the Academic Council in its meeting held on 2/3/2023, has resolved to approve the revision in Academic Ordinance and Course Structure of Doctor of Philosophy (Ph.D.) Program under various disciplines, with effect from Academic Year 2023-24 and onwards, attached herewith as Annexure – A.





To:

- Campus Director Gandhinagar
- Dean SDSR

Copy to:

- Controller of Exam
- Dy. S.O./Clerk Exam/SDSR

C.f.w.c.to: PS to Hon'ble Vice-Chancellor, NFSU for information

Encl:

Annexure A

(Contains:

- a. Academic Ordinance
- b. Course Structure
- c. Forms I to XV)

Email: exe_registrar@nfsu.ac.in

Email: director_tripura@nfsu.ac.in



National Forensic Sciences University

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NATIONAL FORENSIC SCIENCES UNIVERSITY

Ph.D. PROGRAM ACADEMIC REGULATIONS: 2023-24

INTRODUCTION

National Forensic Sciences University (NFSU) offers research programmes in various subjects and inter-disciplinary areas of forensic and allied fields, leading to the award of the Degree of Doctor of Philosophy (Ph.D.). NFSU harbors an esteemed research culture with wellestablished state-of-the-art infrastructure, and offers Ph.D. programme in Forensic Sciences and all relevant fields.

The major objectives of the Ph.D. programme is to:

- 1) Conduct high-impact research to acquire new fundamental knowledge as well as to develop cutting edge technologies for detection and prevention of new age crimes.
- 2) Bridge the gap between industry and academia.
- 3) Inculcate the innovation in indigenous researches for strengthening the forensic capabilities of the nation.
- 4) Generate research minds empowered with entrepreneurship and contribute in nation

The following Regulations shall apply to all categories of students/candidates pursuing course of study and research leading to the Ph.D. degree :

R.Ph.D.1 MODE OF Ph.D.

1.1 Full Time/Regular Mode:

Students under this category shall work full time for the Ph. D. programme and not permitted to work as a full-time employee elsewhere. Such candidates may apply for fellowship/assistantship available from different funding agencies like CSIR/ICMR/DST/DBT/ICCR/SERB/ICSSR etc. University may also provide scholarship to the full-time students who are not availing any other fellowship as per the criteria decided by the university from time to time. Following are considered under full time:

- A. Full-time candidate on Self-financing basis.
- B. Full-time project fellows appointed in R&D projects being carried out in
- C. Full-time candidate sponsored by Academic Institutes/Industries/R&D organizations.
- D. Full-time candidate with Government/Semi-Government Fellowship awardees: GATE/GPAT/SET/NET/JRF qualified candidates and similar national/state



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level tests.

- E. International Students: Students/candidates from any other country with requisite qualifications and valid passport/visa or candidates nominated from Indian Council for Cultural Relations (ICCR) fellowship awardees.
- F. Professional Category: Recognized R&D organizations, institutions, government organizations or industries may recommend students/candidates from India and abroad with atleast 10 years of work experience to enroll as professional category candidate. Such candidates will be admitted provided they satisfy the requisite minimum qualification and they shall not be entitled to any fellowship/assistantship from the University. However, such candidates may receive sponsorships from their parent organizations or they might continue on self-finance basis.

1.2 Ph.D. through Part Time Mode

- (a) Ph.D. programmes through part-time mode will be permitted, provided all the conditions stipulated in these Regulations are fulfilled.
- (b) The NFSU 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.
- 1.3 In case of full time Ph.D., it will be mandatory for the scholar to maintain their daily attendance which will be marked and signed by respective research Guide/Co-guide (in case of deputation of Guide/Co-guide, attendance will be maintained at the Dean's Office of the respective School).
- 1.4 Full time Ph.D. scholar may be engaged in academic activities of the university (lectures, tutorials including practical/laboratory demonstrations) for maximum of 8 hours per week.
- 1.5 The fee structure of professional category and international students will be different than all other categories as decided by the university from time to time.

R.Ph.D.2 CHANGE IN MODE OF CANDIDATE

2.1 A Ph.D. candidate shall be allowed to change his/her category from full time to part time only once during the full tenure of the Ph.D. program on the basis of following valid reasons: (a) Employment (b) Medical grounds (c) Valid personal grounds.







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- 2.2 After completion of the course work, student may apply for change of category from full time to part time through RPC along with the valid documentary proofs such as appointment letter/NOC from the employer/medical certificate/valid personal grounds etc.
- 2.3 Change of status from one category to another category or from full-time to part time will be subjected to approval of the Director of Academic Research & Consultancy based on recommendations of RPC members through Dean/Associate Dean of SDSR.
- 2.4 In the case of change of category from full time to part time, the candidate's stipend/scholarship/assistantship will be terminated.

R.Ph.D.3 ELIGIBILITY CRITERIA FOR ADMISSION

- 3.1 For admission to the Ph.D. programme, applicants fulfilling any of the following criteria shall be considered as eligible:
 - i) A 1-year/2-semester master's degree programme after a 4-year/8-semester bachelor's degree programme or a 2-year/4-semester master's degree programme after a 3-year bachelor's degree programme or qualifications declared equivalent to the master's degree by the corresponding statutory regulatory body, with at least 60% marks in aggregate or its equivalent grade in a point scale wherever grading system is followed. Provided that a candidate seeking admission after a 4-year/8-semester bachelor's degree programme should have a minimum of 75% marks in aggregate or its equivalent grade on a point scale wherever the grading system is followed.
 - Candidates having passed Post Graduate Degree (Master Degree) Examination with at least 60% marks in aggregate or equivalent grade in a point scale wherever grading system is followed.
- iii)Candidates who have completed the M.Phil. programme with at least 60% marks in aggregate or equivalent grade in a point scale wherever grading system is followed.

In above cases 3.1 (i), (ii) and (iii), 5 % relaxation in the required percentage of marks will be given to those belonging to SC/ST/SEBC (non-creamy layer)/Economically Weaker Section (EWS), differently abled and other backward categories candidates as per rules.

- 3.2 In exceptional cases, applicants having passed Bachelor's degree with following conditions will be eligible to apply for admission to the Ph.D. programme:
- Candidates who have completed 4-year/8-semester bachelor's degree programme, having a minimum of 75% marks in aggregate or its equivalent



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grade on a point scale wherever the grading system is followed, with minimum of 10 years of professional experience may be considered eligible for

ii) Candidates with B.E./B.Tech. degree (from Institutes of National Importance-INI) in respective discipline with a minimum 75% marks or its equivalent grade on a point scale wherever the grading system is followed may be considered eligible for admission.

In all above cases, 5% relaxation in the required percentage of marks will be given those belonging to SC/ST/OBC (non-creamy layer)/Economically Weaker Section (EWS), differently abled and other backward categories candidates as per rules.

- 3.3. Applicants having passed Bachelor's degree and are fellow members of the Institute of Chartered Accountants and/or Institute of Cost and Works Accountants and/or having qualification of Company Secretary, with minimum of 10 years of professional experience, will be eligible to apply for admission to the Ph.D. programme.
- 3.4 Candidates who have passed Post Graduate Degree (Master Degree) Examination with at least 60% marks in aggregate or equivalent grade in a point scale wherever grading system is followed or equivalent qualification from a foreign educational institution accredited by an assessment and accreditation agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assure quality and standards of educational institutions, shall be eligible for admission to the Ph.D. programme.

R.PhD.4 DURATION OF THE PROGRAM

- 4.1 Ph.D. programme shall be for a minimum duration of three years (six semesters), including course work and a maximum of six years (twelve semesters) including course work, from the date of admission to the Ph.D. programme.
- 4.2 There will be additional relaxation for female Ph.D. scholars and persons with Disabilities (having more than 40% disability). Such candidates may be allowed for an additional relaxation of two (2) years with due approval by the Director of Academic Research & Consultancy after due recommendation by Dean, SDSR.
- 4.3 A maximum of an additional two years after extension can be given through a process of re-registration as per rule, , provided, however, that the total period of Ph.D. program should not exceed eight (8) years from the date of admission in



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the Ph.D. programme.

R.PhD.5 ADMISSION / REGISTRATION PROCESS

- 5.1 The students/candidates falling under categories 1.1(D), 1.1(E) and 1.1(F), as aforementioned will be exempted from the entrance examination of the university. Admission to such candidates will be purely based on their performance during the Interview.
- 5.2 The students/candidates falling under categories 1.1(A), 1.1(B), 1.1(C) and 1.2 will have to appear for university Ph.D. entrance examination to qualify for the interview. In general, the Ph.D. programme entrance test syllabus shall consist of 50% of research methodology and 50% domain specific questions. Students who secure 50% marks in the entrance test are eligible to be called for the interview. 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 rule.
- 5.3 University reserves the right to decide the number of eligible students to be called for an interview based on the number of Ph.D. seats available.
- 5.4 The interview process shall be conducted through Ph.D. Evaluation & Admission Committee (PEAC) constituted by SDSR, NFSU. The Ph.D. admission and evaluation committee shall consist of in general following 8 members and to convene any meeting minimum presence of 4 members will be mandatory:

a)	Director Academic Research & Consultancy	Chairman
b)	Dean, School of Doctoral Studies and Research	Member (Exaction)
c)	Dean of Respective School(s)	(Ex- officio) Member (Ex- officio)
d)	Domain Expert(s)/Interdisciplinary Member(s) from NFSU proposed by the Dean of concerned school.	2-Member
e)	Domain expert(s)/Interdisciplinary Member(s) from other reputed universities/research institutes/industries proposed by the Dean of concerned school	2-Member
f)	Associate Dean, SDSR, NFSU	Member Secretary







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- 5.5 The Ph.D. Evaluation & Admission Committee (PEAC) shall conduct formal interview on domain specific areas evaluating each candidate's subject knowledge and motivation for research.
- 5.6 On the recommendation of PEAC committee, allotment of Research Supervisor for selected candidates shall be approved by the Dean, SDSR. Such decision will be taken depending on the number of vacant Ph.D. scholar seats available per Research Supervisor, matching the available specialization among the Research Supervisors and the research interest as indicated by the candidates.
- 5.7 Preference in selection will be given to candidates who qualify examinations like GATE/GPAT/SET/NET/JRF and similar National/State level tests.

R.PhD.6 EXEMPTION FROM ENTRANCE TEST

The candidates fulfilling any one of the following conditions will be exempted from University entrance examination:

- i) Candidates who qualify GATE/GPAT/SET/NET/JRF examinations as decided by SDSR from time to time.
- ii) International Students: Students/candidates from any other country with a requisite qualifications and valid passport/visa or from Indian Council for Cultural Relations (ICCR) fellowship awardees.
- iii) Also, 1.1 F category applicants will be exempted.

R.Ph.D.7 ALLOCATIONT OF Ph.D. RESEARCH SUPERVISOR

- 7.1 Dean, SDSR in consultation with PEAC will assign candidates under respective research supervisor(s).
- 7.2 Regular faculty members working as Professor/Associate Professor/Assistant Professor at the University with a Ph.D., and at least five research publications in peer-reviewed or refereed journals in Scopus/SCI/UGC-Care may be recognized as a Research Supervisor on recommendations by Research Advisory Board (RAB). Such recognized research supervisors can act as co-supervisors research scholars for institutes/universities/organizations.
- 7.3 Co-Supervisors from within the same department or other departments of the same institution or other institutions may be permitted with the approval of the RAB.
- 7.4 Provided that in areas/disciplines where there is none or only a limited number of peer-reviewed or refereed journals, the University may relax the above condition for recognition of a person as Research Supervisor with



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reasons recorded in writing after the approval of Vice-chancellor through recommendation by Director of Academic Research & Consultancy.

- 7.5 Adjunct Faculty members having Ph.D. degree shall not act as Research Supervisors and can only act as co-supervisor with the approval of RPC and Dean, SDSR.
- 7.6 In case of interdisciplinary/multidisciplinary research work, if required, an eligible Co-Supervisor from outside Department/School/Centre/College/University may be appointed with the approval of respective RPC and Dean, SDSR.
- 7.7 An eligible Professor/Associate Professor/Assistant Professor can guide up to eight/six/four Ph.D. scholars, respectively (including fulltime, part-time & professional category), at any given time. Each supervisor can guide up to two international research scholars on a supernumerary basis over and above the permitted number of Ph.D. scholars.
- 7.8 Faculty members with less than three years of service before superannuation shall not be allowed to take new research scholars under their supervision. However, such faculty members can continue to supervise Ph.D. scholars who are already registered until superannuation and as a co-supervisor after superannuation, but not after attaining the age of 70 years. However, Vicechancellor is authorized to grant relaxation on merit basis and on recommendation by Director of Academic Research & Consultancy through SDSR.
- 7.9 When a supervisor proceeds on leave for more than 6 months, a joint supervisor may be appointed (criteria for recognizing as joint supervisors will be same as research supervisor). However, if the leave is for 2 years or more than 2 years, the person may cease to be a supervisor and an alternate research supervisor will be allotted by the RAB.
- Under exceptional circumstances, change of research supervisor may 7.10 be permitted. In case for change of research supervisor a 'No Objection Certificate' of the present Research Supervisor and the due consent of the new Guide are mandatory. However, acceptance of the change of research supervisor shall be approved by the Director of Academic Research & Consultancy after recommendation by the committee Chaired by Dean, SDSR. Such committee will comprise of Dean, SDSR, Associate Dean, SDSR, Two Nominated Members by Director of Academic Research & Consultancy.
- In case of a dispute between a candidate and his/her guide, the 7.11 Committee consisting of the following shall examine the matter and report to the Vice-chancellor, whose decision shall be final.
 - a) Campus Director of respective campus







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- b) Director of Academic Research & Consultancy
- c) Dean/Associate Dean, SDSR
- d) Deans of concerned school
- e) Nominee of the Vice-chancellor

(If the complaint is against Dean, he/she shall not participate in the proceedings of the meeting. In that case, additional member/s may be appointed by the Vicechancellor to replace him/her).

R.PhD.8

PH.D PROGRAMME STRUCTURE:

The Ph.D. Degree Programme Structure consists of the following:

- i) Admission
- ii) Ph.D. Course work and evaluation
- iii) Finalization of the title of the research
- iv) Periodic assessment of research progress
- v) Pre-synopsis presentation and synopsis submission
- vi) Submission of Ph.D. thesis and adjudication
- vii)Viva-voce examination

R.PhD.9 RESEARCH PROGRESS COMMITTEE (RPC)

There shall be a Research Progress Committee for each Ph.D. scholar. comprising of following members:

a)	Dean from concerned School	Last 1
b)		Chairman
	Research Supervisor	Convener
(:)	Co-supervisor (if any)	Member
d)	One Internal RPC member from NFSU (appointed by Vice-Chancellor)	Member
e)	Two External Members (appointed by Vice-chancellor)	Member

Guideline and mechanisms for proposing names of RPC members 9.2 Internal RPC Member:

Any regular faculty serving as Ph.D. research supervisor at the University. External RPC Member:

Active researcher working in any industry/R&D organization/University having Ph.D. Degree with minimum of three years (3) of experience. The member should be preferably from other Institutes of National Importance or Governmental or reputed Private organizations.

9.3 Each Ph.D. research supervisor, within three months from date of











admission of the candidate, should submit a list of at least three (3) internal and five (4) external RPC members, along with C.V. of such RPC members through Dean of respective school to the SDSR. Following this, SDSR will appoint RPC members of research supervisor, upon approval of the Director Academic Research & Consultancy

- 9.4 University shall reimburse travelling expenditure and would pay suitable honorarium, as per University norms to the nominated RPC members for attending RPC meetings of the PhD Scholar.
- 9.5 A request for change in RPC can be made if: Any internal/external RPC member is not able to attend two consecutive meetings, transfer of RPC member, resign of RPC member, stationed far away from the place of research, and decline to continue as RPC member or sudden demise of RPC member. A request for change in RPC member should be submitted by the Ph.D. research supervisor to the Dean, SDSR, on occurrence of such events.
- 9.6 Each semester, a Ph.D. scholar shall appear before the RPC to make a presentation and submit a brief report on the progress of his/her work for evaluation and further guidance as per prescribed format. The RPC members through the Research Supervisor/Co-supervisor shall forward the recommendations (satisfactory/unsatisfactory) along with a copy of Ph.D. scholar's progress report to the SDSR. A copy of such recommendations shall also be provided to the Ph.D. scholar by the Research Supervisor/Co-supervisor.
- 9.7 In case the progress of the Ph.D. scholar is unsatisfactory, the RPC shall record the reasons for the same and suggest corrective measures. If the Ph.D. scholar fails to implement these corrective measures, the RPC may recommend, with specific reasons, the cancellation of the registration of the Ph.D. scholar from the Ph.D. programme.
- 9.8 The functions of the RPC members shall be as follows:
- i) To review the research proposal and finalize the topic of research.
- ii) To guide the Ph.D. scholar in developing the methodology of the proposed research work in consonance with current developments in the respective area.
- iii) To periodically review and assist in the progress of the research work of the Ph.D. scholar.
- iv) To assess and approve the adequacy of the work suitable for consideration in Pre-synopsis presentation.







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R.Ph.D.10 RESEARCH ADVISORY BOARD (RAB)

10.1 There shall be a Research Advisory Board (RAB) comprising of following members:

a)	Dean, School of Doctoral Studies and Research	Chairman (Ex- officio)
b)	Dean of Each School	Member (Ex- officio)
c)	Four External Members from Central Universities/INIs/Industrialists/Scientists (to be nominated by the Vice-chancellor)	Member
d)	Associate Dean, School of Doctoral Studies and Research	Member Secretary (Ex- officio)

10.2 The functions of the RAB members shall be as follows:

- i) To recognize faculties as a Research Supervisor.
- To grant modification/Change in Title/Subject based on recommendation of the RPC members.
- To review the RPC recommendations for Pre-synopsis presentation of the candidate and approve it for further submission.
- iv) To review the application regarding migration of a Ph.D. candidate from other university to NFSU on the basis of merit.
- v) To appoint alternate supervisor as per Clause 7.9

R.Ph.D.11 APPROVAL OF TITLE OF THE RESEARCH

- 11.1 Title of the Research shall be decided by Candidate and research supervisor in consultation with RPC members. The title of the research shall be finalized not later than 2nd RPC committee meeting and shall be recorded in the same.
- 11.2 The candidate may modify or change the title/topic of research after the approval of RPC. Such candidate must apply for modification/Change in Title/Subject through his/her Guide. The permission for change of the title shall be permitted ONLY once in entire research period.
- 11.3 In case of any dispute/problem, the Dean of the SDSR shall take an appropriate decision. In case of appeal against the decision of Dean, SDSR, the Vice-chancellor is final authority to take appropriate decision.



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R.PhD.12 COURSE WORK

- 12.1 In general, the credit requirement for the Ph.D. coursework is total 12 credits which are as follows:
- i) Research and Publication Ethics: Two Credits
- ii) Research Methodology: Four credits
- iii) Advanced Domain Specific Course I: Three Credits
- iv) Advanced Domain Specific Course II: Three Credits

However, Ph.D. candidates inducted as 4 years B.E/B.Tech/Bachelors degree pass out students, needs to earn total course work credit of 20. In addition to 12.1, two regular courses (4 credits each) along with master's students of NFSU (in relevant domain) will be the additional courses for earning the requisite credits. Evaluation of answer sheets for such candidates shall be carried out as per regular NFSU exam pattern.

- 12.2 The course (i) shall be as notified by UGC vide D.O. No. F.1-1/2018(Journal/CARE) in 2019.
- 12.3 The course (i) and (ii) shall be offered at University level as common courses and the examinations of the same shall be common for all the candidates, conducted by the NFSU exam section.
- 12.4 The syllabus of the courses (iii) and (iv) shall be offered by the research supervisor after due approval of Dean of respective School and Dean, SDSR. The evaluation of the same shall be conducted by the NFSU exam section.
- 12.5 The Research Progress Committee can also recommend UGC recognized online courses as part of the credit requirements for the Ph.D. programme which can be considered as advanced domain specific courses-II.
- 12.6 All the candidates while pursuing course work, must attend at least 80% of classes in each course in which he/she is registered.
- 12.7 The course work should be as per the guidelines given by the university from time to time.
- 12.8 All Ph.D. scholars, irrespective of discipline, shall be required to train in imparting teaching/education/pedagogy/writing journal articles related to their chosen Ph.D. subject during their doctoral period.
- 12.9 Ph.D. scholars may also be assigned maximum of 8 hours per week of teaching/research assistantship for conducting tutorial or laboratory work and evaluations.
- 12.10 A Ph.D. scholar must obtain a minimum of 55% marks or its equivalent grade in the UGC 10-point scale in the course work to be eligible to continue in the programme and submit his or her thesis.



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- 12.11 The duration of completion of course work is minimum six months while maximum is one year after admission. If a candidate fails to complete the course work in the first year, the Dean, SDSR on recommendation by a nominated committee may grant an extension of additional one year after proper justification.
- 12.12 Exemption from course work: Following candidates are exempted from course work:
 - a) Any candidate with a M. Phil or PhD degree may be exempted from the course work. However, such a person shall be required to give at least two seminars on the areas related to his/her area of research duly evaluated by Research Supervisor.
 - b) Those who have carried out research at another university and have completed the course work of equivalent standard/credit may be exempted from course work at NFSU.

In both the above cases, the exemption will be granted based on the recommendations of the committee constituted by Dean, SDSR comprising of Research Supervisor, One External Member and One Internal Member. Such members shall be active researcher working in any industry/R&D organization/University having Ph.D. Degree with minimum of three (3) years of experience. The member should be preferably from other Institutes of National Importance or Governmental or reputed Private organizations.

R.Ph.D.13 FELLOWSHIP / SCHOLARSHIP

- 13.1 The Fellowships/Scholarships such as JRF, SRF, Doctoral Fellowship for Women, Doctoral Fellowship for SC/ST Candidates, Government Scholarships, and ICSSR Fellowships etc. shall be governed by rules framed by sponsoring agencies. In such case for initiating the process, the research supervisor will forward the detail application to the Office of the SDSR for further perusal and submission to different agencies. After the receipt of successful linking of JRF to the parent organizations or other funded fellowships from the respective funding agencies, the Research Supervisor shall submit necessary documentation to the accounts section through the Dean, SDSR/Research Co-ordinator and Campus Director/Executive Registrar. Further, the monthly attendance of the candidate should also be forwarded by the Research Supervisor to the accounts section through Dean of the concerned school, Dean, SDSR/Research Co-ordinator and Campus Director/Executive Registrar for release of monthly emoluments.
 - 13.2 The candidate willing to avail institutional fellowship from NFSU,







राष्ट्रीय न्यायालयिक विज्ञान विश्वविद्यालय

(राष्ट्रीय महत्त्व का संस्थान, गृह मंत्रालय, भारत सरकार)





should apply in a prescribed format given by the SDSR from time to time. The application should be forwarded through the research supervisor and Dean of the School and submit it to the Dean, SDSR. The following committee will then evaluate the candidates:

1	Dean, SDSR	Chairman
2	Deans of All School	The state of the s
3		Members
	One Faculty Member nominated by Director Academic Research & Consultancy	Member
4	Associate Dean, SDSR	Mambaa C
	The state of the s	Member Secretary

- 13.3 The recommendations of the committee shall be then forwarded to the Campus Director of Headquarter, Gandhinagar for the approval.
- 13.4 The disbursement of the scholarship shall be at the respective campuses. Scholarship, every month will be payable upon approval of campus director of respective campus on the recommendation of Dean, SDSR/research coordinator submitted by the Research Supervisor and duly forwarded by the Dean of respective school.
- 13.5 NFSU Scholarships will be provided to eligible candidates on recommendations of the committee as mentioned in 14.2 and after approval by competent authority.
- 13.6 Only a selected number of full time candidates not availing scholarship/fellowship from any other source will get monthly Scholarships from NFSU as per the norms of university initially for a duration of two years. The scholarship may be extended by one more year, based on the recommendations of committee as mentioned in 14.2.
- 13.7 The candidate receiving fellowship cannot accept full-time employment or any part-time employment in any organization.
- 13.8 On finding any information submitted untrue or factually incorrect, the fellowship will be cancelled and the amount paid so far will have to be refunded to the University by the candidate, pertaining to which each awardee should submit an undertaking.
- 13.9 In case the candidate leaves research work midway the fellowship will be cancelled with immediate effect.

RESEARCH PROGRESS ASSESSMENT MECHANISM R.Ph.D.14

14.1 The supervisor should send the request, after consultation with the RPC members, for conduction of RPC meeting well in advance (minimum 10 days) to the SDSR.







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- 14.2The research scholar shall present, a progress of his/her research work, to the concerned RPC twice in a year until the scholar submits the synopsis. The minutes/review report of every RPC meeting with signatures of all the members (at least one external and one internal member) should be submitted to SDSR within one week from date of meeting. At the end of each RPC, the scholar will get review report mentioning the comments, suggestions and remarks.
- 14.3 A gap of ~6 months has to be maintained between two RPC meetings.
- 14.4 If 3 consecutive RPC reviews of particular PhD research scholar are not approved/not accepted/not successful then the PhD admission of that research scholar will be cancelled subject to recommendation of the same from his/her supervisor through RAB.
- 14.5 The RPC committee's recommendations (in last RPC meeting) are mandatory for allowing the student to give pre-synopsis presentation in front of RAB.
- 14.6 The supervisor shall remain present at all the RPC meeting, pre-synopsis presentation as well as viva voce of the PhD scholar.

R.Ph.D.15 PRE-SYNOPSIS PRESENTATION AND SYNOPSIS SUBMISSION

- 15.1 Prior to submission of the synopsis of the thesis, a comprehensive assessment of the research work should be made to RPC members. After recommendations from last RPC, research supervisor should submit a request for Pre-Synopsis Presentation to Dean, SDSR. The SDSR may permit to conduct pre-synopsis presentation provided the candidate has complied with all the requirements of the pre-synopsis in terms of successful completion of course work, minimum duration requirement, minimum 6 RPCs, publication requirement and payment of requisite fees duly ensured by the research supervisor.
- 15.2 Prior to pre-synopsis presentation, the scholar is required to have:
- i) At least two research papers published or accepted for publication/two patents published or granted/one research paper published or accepted for publication and one patent published or granted. The research paper shall be published or accepted for publication, in reputed SCI/Scopus/Web of Sciences/UGC-CARE/UGC listed indexed journals and two conference presentations, for all disciplines of Ph.D, except Humanities, Law & Management.
- ii) For Humanities, Law & Management, at least two research papers/journal







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articles/conference proceedings (full paper)/book chapters (national publishers with ISBN number) from his/her Ph.D. research area as first or equal or corresponding author, published or accepted for publication, in reputed SCI/Scopus/Web of Sciences/UGC-CARE/UGC listed indexed journals/Peer-reviewed journals and two conference presentations.

- 15.3 A pre-synopsis presentation shall be conducted by SDSR in presence of RAB. Details of the Pre-Synopsis Presentation shall be notified well in advance, so as to enable the interested faculty members and students to attend the same.
- 15.4 After recommendations of pre-synopsis presentation by the RPC, the candidate shall make another brief pre-synopsis presentation at RAB.
- 15.5 The candidate can submit the synopsis (subsequently the thesis) to SDSR, only if RAB approves the same.
- 15.6 The synopsis as per prescribed format must be submitted within three months of date of RAB and at least one month before submitting the thesis. At least five printed copies and one soft copy of the synopsis shall be submitted to the Dean-SDSR through research supervisor.

R.Ph.D.16 PH.D. THESIS SUBMISSION AND ADJUDICATION

- 16.1 The candidate must submit the Ph.D. thesis along with pre-requisite requirements to SDSR through research supervisor(s).
- 16.2 The Ph.D. thesis must be submitted within minimum one month and maximum of 6 (six) months after the submission of the pre-synopsis report. A candidate shall submit five copies of the thesis in case of single supervisor and six copies if there is/are co-supervisor(s), neatly typed or printed and hard/spiral bound along with and soft copy in form of a CD/DVD. The copy of the thesis should be accompanied by originality report generated by the plagiarism checking software suggested by the University or as per UGC norms. Such plagiarism report (plagiarism check shall be carried excluding references and certificates) shall be submitted by NFSU Librarian through SDSR to the Dean, SDSR. The similarity should not exceed 10% excluding the papers published by the candidate and or as per UGC guidelines.
- 16.3 In case a candidate fails to submit his thesis within the stipulated time and has suitable justification for the same, the Dean, SDSR may on recommendations made by the research supervisor through RPC members, grant an extension of not more than two months i.e., the candidate may be allowed to submit the thesis within a period not exceeding total 8 months







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from the date of the submission of the pre-synopsis.

- The candidate shall submit the thesis for evaluation, along with (a) an undertaking that there is no plagiarism and (b) a certificate from the Research Supervisor attesting to the originality of the thesis and that the thesis has not been submitted for the award of any other degree/diploma to any other organization within the country or abroad.
- 16.5 While submitting the thesis, the research supervisor will suggest a panel of 8 (eight) experts (Associate Professor/Professor/Senior Scientists), 4 (four) from India and 4 (four) from abroad for evaluation and examination of the thesis through SDSR and NFSU examination section. Such panel shall be forwarded to the Vice-chancellor for approval through NFSU examination section after duly forwarded by SDSR. Following this, two experts from the suggested panel shall be appointed by the Vice-chancellor as external examiners for evaluation.
- 16.6 Subsequently, the NFSU exam section will forward the thesis to the two (India and abroad) nominated/appointed examiners for their consent and receipt from such examiners shall be awaited till 10 (ten) days from the day of communication. After receiving the consent, each examiner will be requested to submit their detailed assessment report/recommendations in the prescribed proforma within 6 (six) weeks of the date of receiving the thesis to NFSU examination section. However, incase the consent is not received from the nominated examiners, then NFSU examination section will write to next group examiners as nominated by the Vicechancellor in hierarchy. In case, an examiner after providing his/her consent and receiving of the thesis, does not send his/her report within the above period i.e. 6 (six) weeks, a reminder shall be sent to him/her. This shall be followed by a subsequent reminder after a fortnight.
- 16.7 In the event that the thesis report is not received from an examiner within a period of three months, the exam section may sort recommendation from Vice-chancellor and, may appoint another examiner(s) in his/her place for evaluating the thesis.
- 16.8 The nominated/appointed examiners shall recommend whether (a) the thesis be accepted for the award of Ph.D. degree in its present form; or (b) the thesis be revised and resubmitted; or else (c) the thesis be rejected.
- 16.9 In case of 17.8(b), the candidate shall comply suggested modifications and provide the necessary clarifications, which in no case shall exceed 2 (two) months.
- 16.10 If one of the external examiners (India/abroad) recommends rejection, the NFSU exam section shall send the thesis to an alternate external examiner (India/abroad, as the case may be) from the approved panel of examiners







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and as nominated by the Vice-chancellor, and the subsequent viva-voce examination shall be held only if the alternate examiner recommends acceptance of the thesis.

- Vice-chancellor, on the recommendation of Director of Academic Research & Consultancy, through Research Advisory Board (RAB) & SDSR may permit submission of a revised thesis on an additional payment of the prescribed fee, after a suitable time to be fixed by the Vice-chancellor. Copies of the observations and comments of the examiners, if any, may be given to the candidate. However, the names of the examiners shall not to be disclosed. In no case should a resubmission of the thesis without modification along the lines of criticism/observations made by the earlier examiners be allowed. The revised/corrected thesis shall be referred for assessment to two external examiners selected from a new panel of 8 experts (4 from India and 4 from abroad) recommended by the Vice-chancellor. In the event of thesis being rejected by any one of new external examiner, the thesis shall be rejected, and the Ph.D. scholar shall be declared ineligible for the award of a Ph.D.
- 16.12 Once the reports from the examiners are received as satisfactory, the open viva-voce of the Ph.D. scholar to defend the thesis shall be conducted not later than 2 (two) months by the NFSU examination section. The final date of open viva-voce presentation shall be decided on a mutually agreed date with internal/external examiner. The members of viva-voce board should be provided with soft/hard copy of thesis preferably 15 days before the conduct of viva by the NFSU examination section.
- 16.13 The open viva-voce board should comprise of at least one of the two external examiners (India/abroad), research supervisor, Dean of school from concerned domain, Controller of Examiner, Dean, SDSR and Associate Dean, SDSR. It may be conducted in hybrid mode. The viva-voce shall be open to the members of the Research Progress Committee/faculty members/research scholars, students and other stakeholders.
- 16.14 The external examiner should be one of the experts who have already adjudicated upon the thesis. In special case, another expert can be appointed for the purpose upon recommendation of Dean, SDSR & Director of Academic Research and Consultancy and upon approval of Vice-chancellor.
- 16.15 If the viva-voce is satisfactory and all other requirements have been fulfilled, the candidate will be declared as eligible for the award of the Ph.D. degree. If the viva-voce board is non-satisfactory, then the candidate has to re-appear before the open viva-voce board within the next three



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months for defense.

R.Ph.D.17 CANCELLATION OF ADMISSION

- 17.1 Cancellation of the admission of a candidate shall be approved by Vicechancellor through Director of Academic Research & Consultancy, based on the recommendations of Dean, SDSR.
- 17.2 Registration of a candidate shall be cancelled in any of the following eventualities:
 - Giving false information at the time of application/admission. (i)
 - Not conforming to the regulations of the programme. (ii)
 - Consistent lack of progress in research recommended by (iii) Supervisor(s) and RPC Members.
 - Not submitting a thesis within the stipulated period. (iv)
 - Not enrolling for a semester within stipulated dates. (v)
 - In case of unsatisfactory performance of any candidate at any stage (vi) of the programme, his/her enrollment/registration from the programme may be cancelled based on the recommendations by research supervisor, Dean of concerned school, Director of Academic Research & Consultancy and Dean, SDSR.
 - If any candidate continues to remain absent for period of four weeks (vii) without prior intimation/sanction, his/her enrollment/registration from the programme may be cancelled based on the recommendations by research supervisor, Dean of concerned school, Director of Academic Research & Consultancy and Dean, SDSR.
 - (viii) If the candidate wishes to resign from the Ph.D. programme and resignation is duly recommended by research supervisor, Dean of concerned school, Director of Academic Research & Consultancy and Dean, SDSR. However, the candidate resigning from the Ph.D. programme is required to submit No Dues certificate for cancellation.
 - If the candidate is found involved in any act of misconduct and/or (ix) indiscipline, termination shall be approved by the Director of Academic Research & Consultancy upon recommendation through Research Supervisor and Dean, SDSR.
- In the case of leaving the PhD programme, the candidate's 17.3 stipend/scholarship/assistantship will be terminated from immediate effect,
- The refund of fees shall be as per the university norms. 17.4

LEAVE RULES





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- 18.1 A full-time PhD student is eligible for 30 days leave for every completed year (calculated in terms of two consecutive semesters, from the time of her/his joining the programme). Saturdays, Sundays or holidays during the leave period are counted towards leave, except for prefixed or suffixed holidays. Of the 30 days leave, a maximum of 15 days of leave is permitted in a semester. However, a maximum of 5 days of such leave is allowed to avail at a stretch if student having any teaching assignment. However, a student can accumulate leave, and avail a maximum of 30 days leave at a time in a year. Dean of concerned school sanctions leave on recommendation of supervisor(s). The medical leave for Ph.D. students shall be considered on case to case basis on recommendation of the medical officer, only if the ordinary leave of the Ph.D. student is exhausted.
- 18.2 Maternity/Paternity Leave: A student is eligible for maternity leave (as per Government of India rules) or 15 days of paternity leave as applicable only once during the Ph.D. programme. The Dean of concerned school sanctions maternity/paternity leave on recommendation of the Supervisor(s) and submission of a certificate from the medical officer.
- Academic leave: Academic leave is permitted on the following grounds: To attend conferences/seminars/workshops/trainings/short-term courses. A maximum of 15 days of leave is permissible in a calendar year with approval of respective Supervisor(s). A maximum of 30 days of leave in a calendar year is permissible for field trips such as data collection, survey work, etc. The Dean of the concerned school sanctions such academic leave on recommendation of the Supervisor(s) & RPC members. Academic leave exceeding 30 days but up to a maximum of 60 days in a calendar year is approved by the Director of Academic Research & Consultancy on recommendation of the Supervisor(s) & RPC members through Dean, SDSR.
- Academic leave of more than 60 days but up to a maximum of 12 months is 18.4 also permissible to carry out part of the research in another institute/R&D Lab/industry in India or abroad. For sanction of such a leave, a letter of consent from the host institute is required. This leave is permissible only after the student has passed the course work examination. However, for academic visits with remuneration/scholarship must be approved by Director of Academic Research & Consultancy, and such candidates are not allowed to get his/her regular institutional fellowship. On recommendations of the Supervisor(s), the RPC committee, Dean, SDSR, Director of Academic Research & Consultancy, approves such an academic leave with/without remuneration/scholarship, as the case may be. Such cases are also to be reported to the Vice-chancellor. A student granted academic leave for one or







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more semesters, pays prescribed fees in every semester. If a registration date falls during the period of academic leave, a student completes the registration procedures at the expiry of her/his academic leave.

R.Ph.D.19 MIGRATION FROM OTHER UNIVERSITY TO NESU

- 19.1 In case of relocation of a female Ph.D. candidate due to marriage or otherwise, the migration of the candidate from other university to NFSU may be permitted under following conditions:
 - The candidate has to obtain a "No Objection Certificate (NOC)" from her previous organization. NOC should also mention that the research data shall be allowed to be transferred to NFSU (if applicable).
 - Candidate produces a Character Certificate (CC) from the original ii) Institute/University stating that "She has not been involved in any act of indiscipline or bad conduct, and has not been punished/ debarred/expelled by the Institute/ University".
 - Candidate should have stayed in the previous Institution minimum iii) for one year OR fully completed the course work requirement for the doctoral programme, whichever is earlier, are only eligible for transfer of their candidature to NFSU.
 - Candidates after getting transferred to NFSU Gandhinagar should iv) stay at least 1 year (12 Months) from the date of restoration of admission at NFSU, for appearing in pre-submission seminar.
- 19.2 Following documents are required to be submitted by the candidate from the previous institute:
 - Proof of Enrollment/Admission in Ph.D. programme
 - Proof of Course Work Completion certificate, if any
 - Grade cards of the course completion, if applicable
 - · Minutes of the previous RPC meeting, if any
 - No Objection Certificate (NOC) from Registrar/HoD of the previous university through the Supervisor(s)
- · Character Certificate (CC) from the Registrar/HoD of the previous university
- In all such cases, the candidate is required to make written request for 19.3 transfer of enrolment/registration with all supporting documents as stated above for consideration by the Dean/Associate Dean, SDSR. Director of Academic Research & Consultancy shall approve the same after recommendations from a committee constituted by Dean, SDSR.





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- In case of all such candidature transfer, the credit earned under her previous 19.4 Institute shall be transferred as it is and to be ratified by the RAB for any deviation from the prevailing rules of the Ph.D. programme of the university. After approval of the candidature transfer, she has to deposit requisite fees for admission and continue her research at the university under the present regulation.
- In such cases, the research data shall be allowed to be transferred to NFSU 19.5 and the research work does not pertain to a project sanctioned to the parent Institution/Supervisor by any funding agency. Such scholar shall, however, should give due credit to the parent institution and the supervisor for the part of research already undertaken.

R.Ph.D.20 AWARD OF THE DEGREE

- 20.1 On the completion of all stages of examination, the viva-voce board shall recommend to the Dean, SDSR, one of the following courses of action:
 - a) that the degree be awarded.
 - b) that the candidate be re-examined at a later specified time in a specified
 - c) that the degree shall not be awarded.
- 20.2 In case of (b), the viva-voce board shall also provide to the candidate a list of all corrections and modifications in the thesis (if required) including suggestions made by the external examiners during the thesis evaluation.
- 20.3 The Degree shall be recommended by the SDSR to Academic Council and subsequently to Board of Governors (BOG), provided that:
 - The viva-voce board so recommends.
 - ii) The candidate produces a 'No Dues Certificate' in the prescribed format.
 - iii) The candidate has submitted two hard cover copies of the thesis: one for the School/Centre's Library and one for the Central Library.
 - iv) The candidate has submitted an electronic copy of the Ph.D. thesis in the prescribed format of INFLIBNET to Librarian, NFSU for uploading in the online INFLIBNET portal.
- 20.4 Further, the award of degrees to candidates already registered and pursuing Ph.D. shall be governed by previous regulations of the university (before the commencement of this regulation).
- 20.5 Notwithstanding anything contained in the above or any other matters emerging out of the Ph.D. program, the Vice-chancellor shall be authorized to provide necessary sanctions as per the recommendations by a committee comprising of Director of Academic Research & Consultancy (Chairman), Dean, SDSR, Dean of the concerned school & Associate Dean, SDSR







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(Member Secretary).

R.Ph.D.21 INTERPRETATION OF THE RULES MENTIONED HEREIN

The rules framed herein are in consonance with the "UGC (Minimum Standards and Procedure for Award of Ph. D. degree) Regulations-2022". The UGC and NFSU may amend the rules time to time and it will be applicable for Ph.D. admissions and its conduct.



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COURSE STRUCTURE AND SYLLABUS Ph.D Course Work

Total Credit: 12

Programme Specific Outcome:

- The students will obtain practical exposure to different research methods popular in various forensic science and allied fields.
- 2. They will be acquainted with the statistical techniques in various research domains.
- 3. Students will learn about recent trends in forensic science and allied branches imperative techniques.
- 4. Students will be equipped with necessary skill set to undertake research activity.

Program Structure:

The Ph.D. coursework will be of 12 credits and is taught and evaluated over a substantial period. All papers will mandatorily be studied by all students enrolled in the coursework. All the candidates while pursuing course work must attend at least 80% of classes in each course in which he/she is registered. Ph.D. scholar must obtain a minimum of 55% marks or its equivalent grade in the UGC 10-point scale in the course work to be eligible to continue in the programme and submit his or her thesis. The duration of completion of course work is minimum six months while maximum is one year after admission. If a candidate fails to complete the course work in the first year, the Dean, SDSR on recommendation by a nominated committee may grant an extension of additional one year after proper justification. The evaluation of papers will be based on continuous evaluations held throughout the course as well as end-semester written examinations. Continuous evaluations will consist of a combination of assignments, quizzes, writeups, and or presentations taken by multiple teachers involved in the course. The end semester examination will be a written examination based on all topics covered during the course.

Sr. No.	Course Code	Course Name	Course Credit	No. of Hours
i	SDSR-PHD-01	Research and Publication Ethics	2	
ii	SDSR-PHD-02	Research Methodology	4	30
iii	SDSR-PHD-03	Advanced Domain Specific Course I	2	60
iv	SDSR-PHD-04	Advanced Domain Specific Course II	3	45
	The second secon		- 3	45
		TOTAL	12	180



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Course Name: RESEARCH AND PUBLICATION ETHICS

Course Code: SDSR-PHD-01

The objective of the course is to introduce the basic methods of conducting research, explore ideas in formulating research objectives and hypotheses and sample framework for taking up research studies in a structured manner. Also, it is intended to facilitate for the development of an insight into different statistical tools for data analysis, interpretation, and presentation of reports in different areas of research. The course also illustrates aims of research, originality and ethical standards in research experimentation and research publications. They support the values required for collaborative work, such as mutual respect and fairness.

Unit-I: Fundamentals of Research

[4 hours]

Research: Meaning, Scope, Limitation, Nature & Ethos of Research; Research Methods versus Methodology; Research and Scientific Method; Importance of Knowing How Research is Done; Scientific Inquiry-Concept, Assumptions and their Role; Types of Research-Descriptive, Evaluative, Historical, Philosophical, Developmental, Corelational Research, Ethnographic Research, Experimental Research, Ex-Post Facto Research, Action Research.

Unit-II: Research as a Process

[3 hours]

Skills required for conducting research; Sources of research data- primary and secondary sources; Population and sample, Sampling techniques- concept, types (random, purposive, stratified random, probability and non-probability).

Unit-III: Formulation of Research Proposal

[3 hours]

Formulating research proposal- identification of a research problem, Review of related literature, research questions, objectives hypotheses-concept, types, formulation; Formatting, Citations, Bibliography, References, Chapterisation, writing, evaluating and reviewing research reports and papers; Concepts of intellectual property; Developing entrepreneurship.

Unit IV: Ethics in Research

[6 hours]

Ethics: definition, moral philosophy, nature of moral judgments and reactions; Publication ethics: definition, introduction and importance best practices, standards setting initiatives and guidelines: COPE, WAME, etc. Conflicts of interest Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types of violation of publication ethics, authorship and contributor ship identification of publication misconduct, complaints and appeals, predatory publishers and journals.

Unit V: Open Access Publications

[4 hours]

Open access publications and initiatives SHERPA/ROMEO online resource to check publisher copyright & self-archiving policies; Software tool to identify predatory publications developed by SPPU; Journal finder I journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer, Journal Suggester, etc.





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Unit VI: Institutional Committees for Ethical Research

[6 hours]

Research using animals, Institutional Animal ethics committee (IAEC), Research with Human Subjects, Institutional ethics committee (IEC), Research with Stem Cells, Institutional committee for stem cell research (IC-SCR), Patents and Intellectual property rights. Good Laboratory Practices and Guidelines for Biosafety, Institutional Biosafety Committee

Unit VII: Publication Misconduct

[2 hours]

Subject specific ethical issues, FFP, authorship, Conflicts of interest. Complaints and appeals: examples and fraud from India and abroad. Software tools use of plagiarism software like Turnitin, Urkund and other open-source software tools

Unit VIII: Databases and Research Metrics

[2 hours]

Databases: Indexing databases, Citation databases: Web of Science, Scopus, etc. Research Metrics. Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score, Metrics: h-index, g index, i10 index, altimetrics.

References:

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Garrett H.E. (1967) Statistics in Psychology of Education. Vakils Peffer and SimonsPrivate Ltd. Bombay.

Guilford J.P. Fundamental Statistics in Psychology and Education, McGraw Hill, New

Kerlinger, F.N. (1986). Foundations of Behavioural Research. Surject Publications,

Kothari, C.R.: Research Methodology: Methods & Techniques, New Age Publication, New Delhi, 2004.

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Course Name: RESEARCH METHODOLOGY

Course Code: SDSR-PHD-02

The objective of this paper is to enable research scholars understand the importance of research in forensic science and allied branches. This course deals about various historical, theoretical and practical aspects of research. Also this course aims at the necessary knowledge and skills required for researchers and prepare them to pursue research in their respective interest areas. The course would enable students to understand basic research methodology, grasp statistical techniques required to analyse data, using various computer softwares and approaches.

Unit-I: Fundamentals of Research

Hypothesis Development and formulating a research question: Paradigms and designs in forensic science in general and in allied sciences; Defining a problem, survey of available literature, formulating a hypothesis. Developing objectives to test the hypothesis, study design, importance of controls, data collection, developing a timeline of study.

Unit-II: Methods of Data Collection

Tools and techniques of data collection for qualitative and quantitative research - observation, [8 hours] interview, questionnaire, rating scale, inventory, check list, content analysis; Reliability and

Unit-III: Statistical Methods and Data Analysis-I

Numerical and graphical presentation of data; Measures of central tendency; Measures of dispersion; Testing of significance of hypothesis by student's t-test, paired t-test and Fisher's t-test; Power of the Test; Determination of correlation coefficient between two variables; Regression analysis of bivariate data using statistical software.

Unit-IV: Statistical Methods and Data Analysis-II

Theories of probability; Analysis of variance; Post-hoc test; Statistical distributions (Normal, binomial and Poisson distributions); Data presentation and handling in Excel; Statistical analysis using SPSS/ statistical software; Concept of data normalization and transformation; Chi-Square Distributions, Wilcoxon rank-sum test and MannWhitney test, Kruskal-Wallis test, Rank Correlation, Goodness of Fit tests; ; Qualitative Data Analysis: Ethnography, Narative Analysis, Grounded Theory, Case Oriented Understanding; Mixed Methods

Unit-V: Mutivariate Data Analysis

Examining your data; Factor Analysis: Multivariate Regression Analysis; Multiple Discriminant Analysis and Logistic Regression; Cluster Analysis. References:

Anderson, Sweeney and Williams: Statistics for Business and Economics, 9e, Cenage

Best, John W. & James Kahn Research in Education (2008). New York, Prentice Hall.

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Course Name: ADVANCED DOMAIN SPECIFIC COURSE-I Course Code: SDSR-PHD-03

Research domain specific topics will be provided to the respective Ph.D. student by her/is supervisor & co-supervisor (if applicable). The student will conduct a thorough literature review or systematic review and will present the work in a seminar format as per following

Seminar presentation should be based on following guidelines:

- 1) Seminar should be based on thrust areas in respective research domain of Ph.D. student.
- 2) Ph.D. student should identify a relevant topic for the seminar, carry out relevant literature survey, and finalize the same in due consultation with respective supervisor.
- 3) Ph.D. student is expected to utilize various research based tools for literature search.
- 4) Ph.D. student needs to present the seminar in front of SDSR approved committee.
- 5) After evaluation, the committee would submit the marks (out of 100 marks) to SDSR, NFSU.

Seminar will be assessed by the committee members based on following criteria:

- 1) Novelty in the topic
- 2) Content of literature survey
- Organization and integration of the relevant matter
- 4) Understanding of the topic
- 5) Quality of oral presentation







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Course Name: ADVANCED DOMAIN SPECIFIC COURSE-II Course Code: SDSR-PHD-04

The student will conduct a thorough literature review or systematic review (on her/is Ph.D. topic) and will prepare a review report accordingly. Following guidelines need to be followed for the review report (out of 100 marks):

- 1. Min. 30 articles should be reviewed by the Ph.D. student. However, incase the topic is recent and or less number of scientific literature is available, then after due consideration by SDSR approved committee, the supervisor could be recommended suitable number of articles/books/manuscripts etc. for carrying out the review report by such Ph.D. student.
- 2. The report should have the following headings and the word limit should be min.10,000 words inclusive of references (APA/Chicago etc.):
- a) Title Page with Affiliations
- b) Abstract with Keywords
- c) Introduction/Background
- d) Systematic Literature Survey
- e) Problem Statement/Gaps in the Literature
- f) Scope of Future Studies
- g) Summary
- h) Conclusion
- i) Acknowledgement, if applicable
- j) References/Bibliography





Research Interest of the Candidate for Supervisor Allotment

1. Name of the Candidate:	Dated
2. Regd. No:	
Name of Department:	
4. Name of the Programme:	***************************************
5. Research Interest of the Candidate:	***************************************
6. Current Semester Fee Payment Receipt No	
(Please attach the proof of the payment of Semester	fee)
(For Off	Signature of Applicant
(For Offi	ce Use)
I. Name of the Scholar:	
2. Regd. No.:	
. Name of the Supervisor Allotted:	
. Designation of the Supervisor;	
Ti control of the con	
ignature of Faculty Members of the Departm	ent

Signature of Dean



Format for Supervisor Allotment

Ref. No.:	
	Dated
From	
The Dean SDSR,	
National Forensic Sciences University, Gujarat - 38200	7
То	

Ref.: Your Admission dated	(For the Year)
Sir	
This is to inform you that you have been permitted to re in the subject	under the supervision of
Your Registration No. for the Ph.D. Programme is	
2. Your Place/Department of Research Work is	
3. Your date of Registration is	***************************************
Copy to:	Dean,SDSR
Dean, Academics for kind information	
Dean, School concerned for kind information Supervisor Concerned.	
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Format for Topic/Synopsis Approval

Ref. No.:	Dated
From	
The Dean SDSR,	
National Forensic Sciences University, Gujarat - 382007	7
Ref.: Your synopsis presentation before RPC dated	***************************************
Sir	
This is to inform you that you have been permitted to carry	on your research work on the topic
Supervision of	under the
1. Registration No	
2. Your date of successful completion of course work is	
Your date of topic/synopsis approval is	
Copy to:	Dean, SDSR
1. Dean, Academics for kind information	
2. Dean, School concerned for kind information	
3. Supervisor Concerned	
4. File	



Application for Change of Topic of Research

To	Dated
The Dean SDSR,	
National Forensic Sciences University, Gujarat - 382007	
Subject: Request for Change of Topic of Research -Reg.	
Sir	
I,	and was working on the
Existing Topic of Research:	
Reasons for Change of topic of research: Proposed Texts on Proposed	********
3. Proposed Topic of Research:	******************
4. Consent of the Supervisor: 5. Current Sometimes For Forest States 7. Current Sometimes Forest	**********
5. Current Semester Fee Payment Receipt No. with Date	***************************************
Enclosures:	Signature of Applicant
Supervisor allotment letter	
GC 986 5 0	

- 2. Topic approval letter
- 3. Any other



Format for Topic Change

	Ref. No.:
	Dated
	From
	The Dean SDSR, National Forensic Sciences University, Gujarat - 382007
	То

I	Ref.: Your revised synopsis presentation before RPC dated
S	ir
to	This is to inform you that you have been permitted to carry on your research work on the revised opic
	Registration No
	Your date of revised topic/synopsis approval is
	Dean, SDSR
Co	opy to:
1.1	Dean, in-charge Academics for kind information
	Dean, School concerned for kind information
	Supervisor Concerned



4. File



Application for Change of Supervisor

(In extraordinary cases only)

То	Dated
The Dean, SDSR,	
National Forensic Sciences University, Gujarat - 382007	
Subject: Request for Change of Supervisor-Reg.Sir	
I,	admitted to the DL D.
Reasons for Change of Supervisor: Consent of the Parisis	
Consent of the Existing Supervisor:	***************************************
Name of Proposed Supervisor: 4 Consent of the Proposed Supervisor:	***************************************
Consent of the Proposed Supervisor: Topic of Research (Proposed Supervisor:	***************************************
5. Topic of Research (Required to be Changed): YES / NO	
6. Reasons for Changing the topic of research:	
7. Proposed Topic of Research:	******************
8. Consent of the Proposed Supervisor for the new topic of research:	***
9. Current Semester Fee Payment Receipt No. with Date	***************************************
Enclosures:	Signature of Applicant
Supervisor allotment letter	
2. Topic approval letter	
3. Any other	





Format for Change of Supervisor

(In extraordinary cases only)

Ref. No.:				Dated	***************************************	*****
From						
The Dean, SDSR,						
National Forensic Sciences Univers	sity, Gujara	at - 382007				
***************************************	*****					
***************************************	*****					
Ref.: Your Application dated	**********					
Sir This is to inform you that you have bee in the subject	n permitte	d to registe				e
***************************************	Voue	*****	1		supervision	of
	rour	topic	to	research	work	is
1. Registration No		***********				
2. Your date of approval of new supervisor i						
			********		**********	
			1	Dean, SDSR		
Copy to:						
 Dean, in-charge Academics for kind inform 	nation					
Dean, School concerned for kind information	on					
3. Supervisor Concerned (Old & New)	77.7					

- 3. Supervisor Concerned (Old & New)
- 4. File





NATIONALFORENSICSCIENCESUNIVERSITY, GANDHINAGAR

ANNEXURE VIII

Research Progress Committee Report

Adjudication of research work since	iast review from	to	:
		ResearchProgr	ess
Particulars	Very Good	Satisfactory	Poor
Frequencyofstudent'svisitfordiscussio	n&Gu		
FinalizationofResearch Proposal			
Reviewofliterature			
CourseWorkExamination			
DataCollection/ FieldWork/Lab Experimentation			
LaboratoryWork/Experimentation			
AnalysisandInterpretationofdata			
DraftingofChapters			
Publications			
OverallResearchQuality			
Progressofresearch of a researcheraspe	rplan		
AnyOther(Plspecify)			
3			
4			
Remark:T	ermGranted/ Not	Granted	
		,	
ture:			
RPCMemb	er –1 RPCMe	mber –2	RPCMember -
	DEA	N	
Ex. 1		P. S.	

RESEARCHPROGRESSREPORT-1

1	Name of the candidate	
2	Enrollment Number	
3	Topic of Research Topic	
4	Under the Faculty of	
5	Name of the Guide	
6	Course work Exam Cleared	
7	Does Fulfill the Minimum Attendance Criteria for the Semester	

Plan for Semester-	
Actual work done during theSemester	
Trettan Work done daring mesemester	

Plan for the next Semester-

Signature of Research Scholar

Comments of Guide:

Name and Signature of Guide:





Annexure-IX

NATIONAL FORENSIC SCIENCES UNIVERSITY

Pre-Ph.D. Thesis Submission Seminar Evaluation Report

	Date:
Name of Student:	

Regd. No.:	
20000000000000000000000000000000000000	***************************************
Department:	

Thesis Title:	200-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1

Suggestions made by RPC:	

Recommended for Submission of Thesis for External Evaluation: YES/ NO

Signature of Supervisor

Signature of Head of RPC

Signature of VC Nominee



Signature of Dean of School

Ph.D. Thesis Submission for External Evaluation

1. Name of the Scholar:	
2. Regd. No.:	
3. Name of Department:	***************************************
4. Title of Thesis:	

Document Check List (Put tick mark)

- 1. Performa for accepting the Ph.D. Thesis
- 2. Plagiarism Analysis Result/Report (Similarity Index<10)
- 3. Grammarly Report for Quality of Writing (Overall score>95)
- 4. DMC of Coursework/Letter of Exemption of Coursework
- 5. Copy of Front Page of Approved Synopsis
- 6. Certificate of Original Work/Undertaking for Plagiarism by Student & Supervisor
- 7. Declaration in Annexure-VIII
- 8. Copy of the Research Paper Publication(s)
- 9. Copy of the Certificates of Conference/Seminar Presentations
- 10. Declaration for Research/Conference Papers
- 11. Ph.D. Pre-Submission Seminar Report with Attendance Sheet
- 12. No Dues Statement
- 13. Thesis Submission Fee Slip
- 14. Four Copies of hard bound thesis
- 15. Soft copy of thesis in 2 CDs
- 16. List of Experts (Sealed Envelop)



Signature of Ph.D. Scholar with Date

Final Thesis Submission for Ph.D. Degree

1. Name of the S	Scholar:
2. Regd. No.:	***************************************
3. Name of Depa	rtment:
4. Title of Thesis:	***************************************

Document Check List (Put tick mark)

- 1. Performa for accepting the Ph.D. Thesis
- 2. Student Approval Form
- 3. Plagiarism Analysis Result/Report
- 4. Copy of Front Page of Approved Synopsis
- 5. Certificate of Original Work/Undertaking for Plagiarism by Student & Supervisor
- 6. Declaration in Annexure-VIII
- 7. Summary of Incorporate of Suggestions in Thesis(if any)
- 8. No Dues Statement
- 9. Five Copies of hard bound thesis
- 10. Soft copy of thesis in 2CDs

Signature of Ph.D. Scholar with Date





Plagiarism Verification Form

2417-4672 (107-140-774)		Date
1. Title of the The	esis:	
		22 DE 100 000 000 000 000 000 000 000 000 00
2. Total No. of Pa	ges in the Thesis:	***************************************
3. Research Schola	ar's Name:	***************************************
4. Name of Superv	/isor:	***************************************
5. Name of Depart	ment:	
This is to report the given below:	at the above thesis was scanned if	for similarly detection. Process and outcome is
6. Software used:	*******	Date:
7. Similarity Index:	The state of the s	Date:
The complete repor	t is submitted for review by the	word count:
	to review by the	Supervisor,
		Signature of the Scholar with Date
The complete report	of the above thesis has been rea	viewed by the Undersigned.(Check Box)
The similarity	v index is below accepted norms.	rewed by the Undersigned.(Check Box)
		because of the following reasons:
***************************************	accepted norms,	because of the following reasons:
**********	***************************************	

***************************************	*****	

		Checked by
-		
CIENCO	(m//m//////	Signature of Supervisor with Date
WEA	Name:	***************************************
	Date:	***************************************
बाल्ने है	A	
-1/	P	

NATIONAL FORENSIC SCIENCES UNIVERSITY CERTIFICATE OF ORIGINAL WORK (SUPERVISOR)

I,			certify	that	my	doctoral	scholar
************	***************************************	has	prepared	his/her	disse	rtation/thesis	
work has not NATIONAL F	at the NATIONAL Is omitted by him/her is previously formed a FORENSIC SCIENCE ats independent wor	s a reco the bas CES U	ord of origin sis for the av NIVERSITY nim/her. The	al research ward of ar f,or any o thesis ha	VERSI work any other ther Units been	nd plagiarism degree/diploi iversity/Institu duly checked	guidance. free. The ma at the ution.The
Plagiarism det	ection software		and	d the cont	tents of	thesis are pl	agiarism
He/she has carr	t violate copyright n	work	in the Schoo	lf-attested	Plagiar	ism report is a	attached.
NATIONAL FO	ORENSIC SCIENCI	ES UN	IVERSITY.				
Name and Sign	ature of supervisor	Ē					
School of	***************************************						
Vational Forensic	Sciences University	y, Guja	arat – 382007	7			
Date:							



A

NATIONAL FORENSIC SCIENCES UNIVERSITY UNDERTAKING FOR ORIGINAL WORK (PH.D.SCHOLAR)

",undertake that I have prepared my dissertation/t	hesis entitled"
", for the Ph.D. degree at the National Forensic Sciences University. The thesis submarcord of original research work and plagiarism free. The work has not previous basis for the award of any other degree/diploma at the National Forensic Science or any other University/Institution. The thesis represents independent work of has been duly checked through Plagiarism detection software	me. The thesisand the
Name and Signature of Scholar	
Registration No.:	
School of	
National Forensic Sciences University, Gujarat – 382007	
Date:	





NATIONAL FORENSIC SCIENCES UNIVERSITY REPORT of Ph.D. PUBLIC DEFENCE/VIVA-VOCE

1.	Name	
2.	Registration No.	
3.	Title of the Thesis	
4.	Name of the Department	
5.	Name of the School	
6.	Name of the Supervisor	
7.	Name of the Co-Supervisor (if any)	
8.	Name of the Examiners for the Evaluation of the Ph.D. Thesis	a. Within the Country:b. From Abroad:
9.	Date of Viva-Voce	
10.	Name of External Examiner to Conduct Viva-Voce	
1.	Public Defense/Viva-Voce	Satisfactory/Unsatisfactory
2.	Response to Questions Asked during Viva-Voce	Satisfactory/Unsatisfactory

Die K

9

Comments on the Qual	lity of Presentation:	***************************************

Comments on the Cand	idate's Ability to Answer Questio	ma fa
Audience:	Questio	is from the Examiners and the
***************************************	***************************************	***************************************
***************************************	***************************************	***************************************
***************************************	************************************	***************************************

	for the Award of Ph.D. Degree:	
(b) Recommended after m	odification for the Award of the F	Ph.D. Degree: (Yes / No)
Signature	Signature	Signature
(Co-Supervisor)	(Supervisor)	(CoE)
Signature	Signature	Ct.
(Dean SDSR)	(External Examiner)	Signature (Asso. Dean SDSR)
E O		

J- Mail