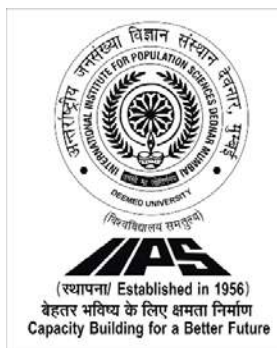


International Institute for Population Sciences

GOVANDI STATION ROAD, DEONAR, MUMBAI 400088



Criterion: I

1.2.1 - Number of new courses introduced of the total number of courses across all programs offered during the year

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International Institute for Population Sciences
(Deemed to be University)
Mumbai

Ph.D.Rules, Regulations and Syllabus



Capacity Building for a Better Future

International Institute for Population Sciences
An Autonomous Organization of Ministry of Health and Family Welfare, Govt. of India
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The International Institute for Population Sciences (IIPS), formerly known as Demographic Training and Research Centre (DTRC), was established at Mumbai in July 1956 with joint collaboration of the United Nations Population Fund (UNFPA), Government of India and Sir Dorabji Tata Trust to serve as the regional institute for training and research in population studies for the countries of Asia and the Pacific region, functioning under the aegis of the Ministry of Health and Family Welfare, Government of India. IIPS is the only institute of its kind in the world exclusively devoted to teaching and research in population and health issues.

In 1985, the institute became a Deemed to be University (u/s 3 of the UGC Act of 1956). In 2006, the institute celebrated its Golden Jubilee, to mark 50 years of glorious existence. The institute has been the hub of population and health related teaching and research in India. IIPS plays a vital role for planning and development of the country by generating valuable health and development indicators at the district and state levels through nationwide large-scale sample surveys at regular interval, funded by the various ministries of Government of India, the UN agencies and other development partners. By 2016, the Institute has trained 3,515 students through various courses of which 2,836 were from India and 679 from 41 countries. The alumni are occupying prestigious positions in national and international research organizations, universities, development agencies and non-governmental organizations and created a brand value for the Institute.

1 (A). Ph.D. in Population Studies / Biostatistics & Demography

The International Institute for Population Sciences (IIPS) offers the following research programmes in Population Studies and Biostatistics and Demography:

- i) Ph.D. in Population Studies
- ii) Ph.D. in Biostatistics & Demography
- iii) Part-time Ph.D in Population Studies
- iv) Part-time Ph.D. in Biostatistics & Demography

Eligibility criteria: Candidates having MPS in Population Studies/ M.A/M.Sc. in Population Studies/MSc in Biostatistics & Demography/ Master Degree in any discipline with atleast one paper/Course/subject in Population Studies/ Demography/Biostatistics/ Health Statistics /MPhil in Population Studies/ Demography/Biostatistics & Demography/ from a recognised university with at least B+ or 55% of aggregate marks in all subjects are eligible to apply. The upper age limit is 30 years for this programme. Marks and age are relaxable for candidates belonging to reserved categories and women as per GOI rules.

1.2 Procedure for admission: The admission to direct Ph.D. programme is through a three-stage process; online entrance test, written test (research proposal) and personal interview. The online Entrance Test is of qualifying. The syllabus of Entrance Test for direct Ph.D. consists of objective type questions on English, Logical Reasoning, Statistics / Mathematics / Biostatistics, Research Methodology, Population Studies / Demography and Epidemiology. Based on the performance in the Online Entrance Test, shortlisted candidates will be called for writing a research proposal and personal interview at IIPS. The selection for Ph.D. programme is based on weighted average of online entrance test, written test (research proposal) and personal interview.

1.3 Number of seats: The selected Indian students will be awarded a Government of India fellowship initially for one year only and is extendable on yearly basis as per rules of the Institute. Each eligible candidate with NET qualification for lecturership only either in Population Studies or its interdisciplinary subjects will be awarded the Government of India fellowship @ Rs. 31,000/- per month for first and second year and Rs. 35,000/- per month for the third year respectively. Each fellowship carries a Contingency Grant of Rs. 10,000/- for the first two years and Rs. 20,500/- for the third year.



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Number of seats with other than Government of India fellowships will be decided depending upon the availability of the Guide at the time of admission.

1.4 Students with UGC-JRF and other such fellowships in Population Studies/Biostatistics & Demography (Rajiv Gandhi National Fellowship, Maulana Azad National Fellowship for Minorities, Babasaheb Ambedkar National Research Fellowship, ICSSR Fellowship, CSIR fellowship, National OBC/SC/ST/Differently Abled Fellowship, etc.) are encouraged to apply for the Ph.D. programme. Foreign students with external financial support can also apply for the programme.

1.5 Sponsored candidates: Eligible **in-service candidates and foreign candidates** (with M.Phil. or Pre-Doctoral Coursework in Population Studies/Demography) with financial support from UGC/ICSSR/Foreign funding may be considered for admission to the Ph.D. programme without entrance test during the academic year.

Officials working in Government departments, research institutions, universities, medical colleges, and non-governmental organisations can also be sponsored for being considered for admission. However, the selection will be made as per selection criteria.

Eligible foreign candidates can also apply for admission provided they secure financial support from any outside agency. Processing fee will not be charged from the foreign candidates while submission of completed application forms. Also, admission test will not be conducted for the foreign candidates and admission will be offered directly if the candidates fulfil the eligibility criteria of the Institute.

1.6 Pre-PhD Coursework:

Duration: 8 months, 2 Semesters- (4 months each)

Credits: 10 credits in each Semester, Total 20 Credits

Course Content:

Semester 1:

RM1-Research methodology Paper 1- Credits 4

RM2-Research methodology Paper 2- Credits 4

RP1-Preparation of a Review based Research Paper- Credits 2

Semester 2:

O1-Optional papers (select 1 out of 4)- credits 4

RP2-Preparation of a Secondary data-based Research paper- Credits 2

CN-Preparation and presentation of Pre-Proposal (Concept Note) for PhD work- Credits 4

O1-Optional Papers: Scholars may choose one out of the four papers

- Fertility and reproductive rights
- Public health and mortality
- Migration, urbanization and development
- Population, social welfare policies and development

Requirements of Pre-PhD coursework:

- Pre-proposal (Concept Note) of PhD work to be submitted to Academic Section by the end of Pre-PhD coursework (eight months).



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2. Scholars need to publish at least a research paper in a journal by end of the second year for further extension of PhD fellowship. It should be either the secondary data-based paper or the Review based Paper prepared during the Pre-PhD course work.
3. Minimum grade to be achieved is B + in the Pre-PhD course work to continue in the PhD program. Re-examination will be permitted for any paper if the scholar fails to obtain the required grade.
4. Papers RM1, RM2 and O1 of the coursework are assessed based on assignments, class room presentations and written examination.
5. The examinations will be conducted after the classes and assignments are completed in each semester.
6. Scholars who successfully complete the Pre-PhD course work will only be allowed to register for the PhD Programme. It would be termed as confirmation of PhD admission.
7. For 2021-22 batch and subsequent years, M Phil holders in Population Studies/ Demography/ Biostatistics are exempted from undergoing the Pre-PhD coursework.
8. Those selected under the Part-time PhD program need to undergo the Pre-PhD course work compulsorily.
9. Number of contact hours in 2nd semester is less than 1st Semester, so that students get time for reading which will be beneficial for PhD topic formulation. Students will have fortnightly meetings with faculty in the 1st Semester to discuss prospective thesis topic. By the end of 1st Semester, Academic Section will allot the Guide and advisory committee members to the scholars.
10. Pre-Proposal will be prepared in consultation with PhD Guide and advisory committee members.
11. Once the Pre-Proposal is ready by the end of the coursework, scholars are in a position to prepare the detailed PhD proposal and present it in a faculty-student seminar within the next four months. In other words, scholars should be ready with their PhD proposal within one year after joining the program.
12. Though not related with coursework, the committee felt that, in order to attract better talent to the PhD programme, the eligibility criteria for admission need to be modified and broadened. Presently those with a Master's or M Phil. degree in Population Studies/ Demography / Bio-statistics are only allowed to apply. This should be open to candidates from other subjects as well.

Review based Paper- Credits 2

Scholars should select a topic of their research interest. They may identify at least 15 published articles and review them critically to prepare the review based research paper for publication.

Course Description/Explanation: Students will write review of selected papers published in peer reviewed journals to critically assess the quality in terms of data, methods, analysis, findings, presentations and conclusions. This work is designed to broaden students' perspectives and to provide them with an opportunity for the integration of course concepts. Emphasis will be placed on methods of interpretation, writing, and critical thinking related to topical issues.



Student Learning Outcomes: Think critically about important issues, Problem-solve solutions to relevant problems, enhance communication skills and research/writing acumen.

The purpose of this course is to assist students in preparing and completing their review based paper and publish it in a journal by end of second year.

When preparing the review based paper, scholars may critically think through each task. Determine the problem/issue they are trying to solve. Develop a hypothesis and/or possible solution to the problem/issue. Brainstorm other possible solutions. Think about the pros and cons of the problem/issue. Gather information on the problem/issue that may support or contradict the existing position. Evaluate the facts objectively. Determine a reasonable conclusion based on all of the facts. Make sure the facts (and the reporting of the facts) are accurate. Scholars will be graded on how well they are able to perform these tasks by a committee of faculty.

Secondary data-based paper- Credits 2

Scholars need to be familiar with available secondary data sets in demography and health domains. They need to select a topic of their research interest and identify one or two issues that can be probed using the secondary data. The selected questions/ issues can be related to their future PhD thesis work. Using the latest available data, scholars need to prepare a research paper for publication.

This exercise will help them identify researchable themes, identifying latest data sets, analyzing them, presenting and interpreting the analysis and findings, identifying the major outcomes and their policy implications. This exercise will enable them how to prepare/draft a research paper for publication and how best it can be presented within the limited space (usually most journals limit the length of their articles to about 6000 words, including tables and references). This exercise also familiarizes the scholars on what are the requirements for publishing a research paper in a peer reviewed journal.

The paper will be evaluated by a faculty committee and necessary suggestions will be provided to the scholars for further improving the contents, arguments, and presentation of the paper to bring it to the publishable standard. Once it is ready, the scholars can identify a suitable journal and send it for the consideration of publication.

Preparation and presentation of Pre-proposal (concept note)- Credits 4

Before the preparation of the PhD research proposal, the scholars need to submit a Pre-proposal (Concept Note) that will broadly outline their area of research interest, research gaps and questions, objectives, methodology and data sources, etc. This Concept Note will be reviewed by a Faculty Committee and provides suggestions to improve its quality, methods and usefulness. This committee will also examine whether the suggested topic is relevant and good enough in the present context for a PhD work, and possible enough to be implemented within the stipulated time available for research scholars. This feedback will help the scholars to conceptualize the topic of research and then work on the detailed research proposal.

The detailed PhD proposal will be later presented in a faculty-student seminar for wider discussion.

Three external experts will also review the PhD proposal and suggest necessary modifications. Based on the discussions in the seminar and feedback from the external experts, scholars will revise the research proposal in consultation with their supervisor and doctoral advisory committee members.

This final proposal will be submitted to the Academic Section, preferably within one year after joining the programme. Syllabus for the above mentioned papers is enclosed as **Appendix I** to this document.

1.7 Attendance

- i) Minimum of 95 percent of attendance in classes during the coursework is compulsory to receive the Government of India Fellowship.
- ii) Minimum of 75 percent of attendance in classes is compulsory to appear in the coursework examinations for all the students.



1.8 Registration: All the students who got admission into Ph.D. programme after Pre-Doctoral Coursework from IIPS are required to register in the beginning of academic year.

1.9 Duration of Ph.D. programme

- i) Ph.D. programme shall be for a minimum duration of four years, including coursework and maximum of six years.
- ii) The women candidates and persons with disability (more than 40% disability) may be allowed a relaxation of two years for Ph.D. in the maximum duration.
- iii) Extension beyond six years may be considered for one more year for In-service candidates or those who have opted for part-time after three years of regular research work, including coursework/M.Phil.
- iv) The women candidates may be provided Maternity Leave/Child Care Leave once in the entire duration of Ph.D. as per the prevailing UGC guidelines (currently 240 days). Male candidates are eligible for Paternity Leave as per Govt. of India norms (currently 15 days) issued from time to time at full rates of fellowship once during the tenure of their award.

1.10 Conditions for the award of fellowship

- i) Ph.D. programme is a full time course. The student shall not accept or hold any appointment paid or otherwise or receive any emoluments, salary, stipend, etc., from any other source during the tenure of the award.
- ii) The student should also obtain prior permission of the Director in writing for appearing at any examination conducted by any other University/Institution.
- iii) The fellowship will be available from the onset of the course till the end of the course.
- iv) The student will have to execute a bond requiring him/her to refund the fellowship received by him/her, if the fellow discontinues before the end of the prescribed period. The condition of the bond cannot be waived or relaxed except by the Director with the consent of the Executive Council of the Institute.
- v) If a student's performance in the during the Ph.D. programme is not found satisfactory, or his/her conduct is found unsatisfactory on the basis of indiscipline of any act as is likely to undermine the prestige of the Institute, or endanger harmony of academic life of the Institute or is likely to violate the rules of the institute, his/her admission and fellowship will be terminated without any further notice. In case the fellowship is terminated, he/she will be required to refund the whole of the fellowship money drawn till that date provided the action against him/her has not been contemplated on the ground of unsatisfactory performance as stated above.

1.11 Payment of fees: The candidates admitted to the Ph.D. programme will have to pay the fees as per schedule of the Institute given in the Ph.D Fee Structure uploaded on the Institute website on 1st January and 1st July every year regularly. For payment of fees, a grace period of 30 days shall be given without late fee. Thereafter, 5% on all dues will be charged extra as late fee, every month. **Students will be allowed to pay only one semester fee with penalty. If any student fails to pay consecutively two semester fees, then his/her admission will be cancelled.**



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1.12 Grading system: The following ten points grading system is followed in the Institute:

Letter Grade	Numerical Value	Equivalent Marks	Qualitative Level
O	10	85-100	Outstanding
A+	9	75-84.9	Excellent
A	8	65-74.9	Very Good
B+	7	55-64.9	Good
B	6	50-54.9	Above Average
C	5	45-49.9	Average
P	4	40-44.9	Pass
F+	3	30-39.9	Fail
F	2	20-29.9	Fail
F-	1	0-19.9	Fail
NA	0	---	Not Attempted/ Absent

1.13 Written examination: Written examination will be conducted for Pre-Phd Course work.

1.14 Re-examination

- Those students who could not appear in the examination will be allowed to re-appear for the paper(s) in the next semester examinations.
- Those failing in any paper can re-appear in the examination in the subsequent semester.
- Maximum of three attempts will be allowed including the first appearance in each paper.
- There will not be any down grading in re-examinations.
- 100 percent of clearance of the papers is a prerequisite to continue the Ph.D. programme.

1.15 Re-evaluation of answer sheets

- A student can have access to his/her examination papers in the form of photo copies at a cost of Rs. 200/- per paper with prior approval of the Director.
- A candidate shall apply for revaluation of his/her answer sheet on the prescribed form to the Director of the Institute within three weeks from the date of declaration of the result along with the non-refundable fee of Rs. 500/- only per paper.
- No application for revaluation will be entertained unless a photocopy of the statement of marks in the examination concerned is enclosed to the application.
- The result of the revaluation of a candidate's answer-book(s) shall be binding on him/her and that he/she shall accept the revised marks as final.
- If a candidate, whose answer-book(s) have been reassessed, becomes eligible for any prize or any other award, the same shall be granted to him/her and the award previously made shall be cancelled. If as a result of revaluation, a candidate becomes eligible for the provision of a condonation of deficiency, the same shall be given to him/her.



Certificate of course work

Students who have successfully completed the coursework will move into Ph.D. programme and will receive a Certificate for the Pre-Ph.D Course Work successfully undertaken by them for two semester.

1 (B) Part-time Ph.D. in Population Studies / Biostatistics & Demography

- (i) Candidate admitted to Part-time Ph.D programme are required to undergo a full time pre-Ph.D. Course work compulsorily. Refer to the Pre Ph.D Course work point no.1.6
- (ii) **The successful completion of Course Work allows the candidate to continue with the Ph.D in part-time mode.**
- (iii) The Part-time candidate shall be in touch with the Guide (Faculty from IIPS) continuously through emails, and shall meet the Ph.D Guide personally at regular intervals. A three member Doctoral Advisory Committee (Guide and two Faculty members of the Institute) will review the progress of the Ph.D work bi-annually.
- (iv) Total duration of part-time Ph.D. programme is minimum of four years (including coursework) and maximum of six years.
- (v) **The Part-time candidate shall submit the following documents at the time of joining the programme: (a) No Objection Certificate from their Employer for undertaking Part-time Ph.D at IIPS, and (b) approval of leave from the Employer for the period of full time coursework.**
- (vi) No fellowship/financial assistance will be provided to the part-time Ph.D scholars during the pre-Ph.D. Coursework/programme.
- (vii) The candidates admitted to Part-time Ph.D Programme will pay the admission fees for the first year as shown in the Fee Structure uploaded on the Institute website, and for the subsequent years the part-time fee structure shall be followed.
- (viii) Candidates admitted to the Ph.D programme under part-time mode shall be governed by all other rules and regulations governing the Ph.D programme of the Institute from time to time.

2. Guide and Co-Guide for Ph.D.

- i) All Professors and Associates Professors are automatically recognised as research guides. An Assistant Professor with a Ph.D. degree and at least two research publications in refereed journals may be recognized as a Research Guide.
- ii) Only a full time teacher can act as a research guide. However, a Co-guide, who is recognised as a research guide in his/her parent organisation, can be allowed in inter-disciplinary areas from other institutions with the approval of Chairperson of Academic Council.
- iii) A Research Guide who is a Professor, at any given point of time, cannot guide more than eight (8) Ph.D. scholars. An Associate Professor as Research Guide can guide up to a maximum of six (6) Ph.D. scholars and an Assistant Professor as Research Guide can guide up to a maximum of four (4) Ph.D. scholars. The faculty who are going to retire in another two years should not be allotted Ph.D. students.



- iv) Based on his/her subject interest the student may choose his/her guide from among the teachers recognised by the Institute subject to the approval of the Director at the time of registration.

3. Procedure and requirements for Ph.D. degree

- i) Candidates for Ph.D. programme are normally required to be enrolled at the beginning of the academic year. However, eligible candidate with financial support from other organisations may be considered for admission to the Ph.D. programme of the Institute any time on case to case basis with the approval of the Board of Studies and Research.
- ii) All the selected candidates for Ph.D. programme (without M.Phil. degree) are required to undergo compulsory pre Ph.D course work for a minimum of 8 (eight) months/two semester.
- iii) A Ph.D. student is required to undertake an original research on a topic selected by him/her in consultation with the guide.
- iv) All the selected candidate for Ph.D programme(with M.Phil degree) is required to submit the Concept Note on the topic selected by him/her within three months of admission. In the Concept Note, Ph.D. scholars should submit the title of their proposed thesis along with a detailing need for the study, objectives, data source and methodology.
- v) A Ph.D. Committee constituted by the Director would review these Concept Notes before according permission to pursue the study. The Committee will evaluate the Concept Note about the originality and feasibility and suggest the Advisory Committee members.
- vi) Candidate (with M.Phil degree) is required to present the Research Proposal before completing one year from the date of admission in Ph.D . It will be discussed and its feasibility would be examined in a student- be faculty seminar. A Rapporteur among PhD student will be appointed to report proceeding of the presentation. Based on the Rapporteur report, PhD student is required to submit the revised Research Proposal within one month from the date of issue of office memo.

4. Monitoring of Ph.D. work

- i) Ph.D students shall submit the half yearly progress report and appear before the Research Advisory Committee formulated at the Institute by the Director once in six months to make a presentation of the progress of his/her work for evaluation and further guidance. The committee will submit the six-monthly progress report to Institute and shall recommend further extension with/without fellowship and may also recommend for conversion of Ph.D. programme from full time to part-time, if progress is not found satisfactory. It is mandatory for the Part time students to submit the progress report once in a year. For the Research Advisory Committee meetings, Guide will be the convener.
- ii) The Ph.D students on completion of six months will have to submit half yearly progress report to the Guide and Advisory Committee Members in the month of January and July every year along with the semester fee receipt. A student whose joining date falls between July to December will submit progress report in the month of January and student whose joining date falls between January to June will submit progress report in the month of July. The format for submission of half yearly progress report is given as Annexure at the end of this document.



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- iii) Students with UGC and other funding shall present his/her progress in front of a committee consisting of an external member from other Institution/University, Coordinator and Guide for the enhancement of a fellowship from JRF-SRF. The format for submission of progress report for enhance of fellowship is given as Annexure at the end of this document.
- iv) Students with Government of India Fellowship shall present their progress in front of Research Advisory Board formulated at the Institute by the Director for the extension of a scholarship from JRF-SRF. The format for submission of progress report for enhance of fellowship is given as Annexure at the end of this document.
- v) For the award of Ph.D. degree, a student should have presented at least two papers related to the Ph.D. topic in workshop/seminars/conference conducted anywhere outside the Institute; published at least one research paper based on the Ph.D. work; and submitted proof of submission for second paper.
- vi) Government of India Research Fellowship will normally be tenable for a period of four years. It shall not be extended for fifth year. After two years of the tenure, the performance of all the Research Fellows shall be assessed by the Supervisor and Advisory Committee. On assessment, if it is found that the fellow lacks research potential, the fellowship may be terminated. In case of a research fellow who has shown research ability but not achieved significant progress, he/she may be given an extension for a period of one year and at the end of three years' period, his/her research work would be subjected to a further assessment and only if the report is found to be satisfactory, he/she be given further extension of one year. The fellowship could be withdrawn if the progress in research is considered unsatisfactory.
- vii) The fellowship may be terminated at any time if the Institute is not satisfied with progress or conduct of the fellow.
- viii) Ph.D. student must make herself/himself available to a committee (Guide, advisors) to review the progress every six months. In case a student fails to complete this clause, she/he will not be allowed to continue the research work. A student may be permitted to delay this in view of appropriate reasons (sickness, for example) with the approval of Director. A Ph.D. research scholar shall submit progress report & time line atleast one month before the expiry of existing extension period, failing which gap period will be considered without fellowship and no arrears will be paid.
- ix) One month before the end of the second year of fellowship, two years' progress will be reviewed by a committee appointed by Director and further extension of fellowship will be on the recommendation of this committee.
- x) A Ph.D. candidate who has completed most of his/her research work should present synopsis of his/her work before completion of the tenure in a seminar which will be attended by both the faculty and the Ph.D. students of the Institute. After the presentation of the synopsis, the candidate has to submit the revised synopsis within one month from the date of issue of office memo by incorporating the suggestion given by the students and faculty during the presentation.

5. Submission and evaluation of the Ph.D. thesis

- i) Earliest, a candidate can submit his/her thesis is only after completing two years from the date of his/her registration.



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- ii) A Ph.D. student should submit his/her thesis within 3 months from the date of presentation of the synopsis. If a student fails to submit the thesis within the above stipulated time on recommendation of the guide, an extension of 3 months may be allowed by the Director in genuine cases. Failing which the candidate may be given one more chance to re-present his/her synopsis.
- iii) A candidate has to submit 4 typed or printed copies of his/her Thesis containing the results of his research work duly approved by the guide. These copies will be sent to Examiners within one month of submission.
- iv) The candidate may incorporate in his thesis the contents of any work which he may have published on the subject and shall indicate it in the thesis but he shall not submit as his thesis any work for which a degree has been conferred on him by the Institute or any other University.
- v) On submission of the final synopsis by the student, the Supervisor will recommend a panel of names of six experts in the area of research pertaining to the candidate's work within India and outside India. A Ph.D. committee headed by the Director will consider the panel of experts provided by the Supervisor. From the approved panel of examiners, Director will choose two experts to evaluate the Ph.D. thesis. The Supervisor will also be an independent evaluator of the thesis.
- vi) The examiner of Ph.D. thesis should be persuaded to submit comments/remarks on the thesis within three months' period.
- vii) Each examiner including the Supervisor will be submitting a detailed report on the evaluation of the Ph.D. thesis indicating whether it is an original piece of work or is a significant contribution to the study of population by way of application or otherwise of a novel presentation of the earlier works with new interpretation and critique. He has to precisely state in the report the following:
 - a) The Thesis is recommended for award of Ph.D. degree.
 - b) The Thesis is to be modified before the award of Ph.D. degree.
 - c) Thesis is rejected.
- viii) Reports of the examiners shall be sent by Controller of Examinations/Assistant Registrar (Academic), to the Director for his consideration.
- ix) If the reports of Examiners are unanimous, the thesis will be rejected if two of the examiners reject it or it will be revised if two of them have so recommended.
- x) If all the three Examiners recommend the award of the degree to the candidate and the reports are unanimous, the viva-voce test of the candidate will be arranged.
- xi) If two of the three Examiners recommend the award of the degree and one examiner does not recommend award of the degree to the candidate, the thesis should be sent to another Examiner from the panel by the Director for his/her opinion. If the thesis is again rejected it will be deemed to have been rejected.
- xii) Director, Ph.D. Coordinator and Guide will decide whether remarks are minor or major. In the case of significant changes suggested by the examiners, student may not be allowed more than one year for modification of work.



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- xiii) In case, any examiner suggests major modification to the Thesis, the candidate has to incorporate the suggestion in the Thesis and submit the modified Thesis to the same examiner for his final recommendation.
- xiv) If the candidate is able to clarify the minor suggestions raised by the examiner satisfactorily he/she need not submit the thesis again for evaluation, in which case a certificate of the Examiner will be deemed to imply that he/she has recommended the award of the degree.
- xv) A research scholar who has received a positive report from the three examiners without or with minor modifications should submit the final bound thesis within three months from the date of issue of reports to him/her.
- xvi) A Ph.D. student should submit four copies of the thesis to the Institute after incorporating the suggestions and comments received during the synopsis presentation within one month.
- xvii) Students should submit the revised thesis within three months. However, in the case of major revisions is required, students should submit the thesis within one year.
- xviii) The comments of the examiners will be made available to the candidate (in confidence i.e. without revealing the names of examiners) to incorporate his/her reply with a detailed clarification to the comments and include the same as an "ANNEXURE" within his/her thesis along with the examiners comments.
- xix) The four hard-bound copies of the thesis should be submitted with the "ANNEXURE" incorporated at the end of the thesis, at an early date. Since the thesis has already been judged by the examiners, the present form of the thesis must be maintained, as per the rules of the Institute.
- xx) Each candidate is also required to include one paged **Abstract** containing major objectives, hypothesis, methodology, samples, instruments/tools used, statistical techniques/designs, experimental, observation, inference and findings, within the thesis on its final submission.
- xxi) One of the outside examiners will be requested to be on the viva-voce panel. The candidate will have to appear for final open Viva-Voce examination, before the Board of Viva-Voce examination comprising the Director, one of the outside evaluators and the supervisor. The right to ask questions to the candidate will, however, be restricted to the Board of Examiners.
- xxii) The Viva-voce of research scholar shall be conducted within two months after submission of the bound copies of the thesis by the candidate.
- xxiii) The candidate will be declared to have qualified for the award of Ph.D. if the candidate performance is found satisfactory in viva-voce examination and committee recommends the award of the degree.
- xxiv) The Academic Council will be informed of the result of such candidates who have qualified for the award of Ph.D. degree, in its next meeting.
- xxv) As per the UGC guidelines, each candidate is required to submit soft copy of the Ph.D. thesis in pdf format for the award of the degree.



6. General information and rules

- i) All Ph.D students are allowed to apply for financial support for field work from external funding agency through proper channel. After receiving such funds, the concerned Ph.D. student must report to the Director through his/her guide.
- ii) All the Ph.D. students must attend compulsorily all proposals, synopsis, term paper and other presentations including guest lectures conducted by the Institute, failing which fellowship will be deducted. In addition, written explanation must be submitted to continue the registration.
- iii) All the students must sign the daily attendance register at 9.30 a.m., every day failing which fellowship will be deducted. In addition, written explanation must be submitted to continue his/her registration.
- iv) All selected candidates are required to stay in Mumbai as a full-time student for a minimum of 2 (two) years to continue his/her Ph.D. work, failing which registration shall be cancelled.
- v) The Ph.D. research scholars may be involved in the institutional academic work such as taking practical classes, preparation of teaching material and teaching of non-credited courses. Certificate may be issued to the Ph.D. research scholars for their involvement in institutional academic work.
- vi) The fellow shall not accept or hold any appointment paid or otherwise or receive any emoluments, salary, stipend etc., from any other source during the tenure of the award. The Research Fellows may be required to undertake assignments as provided by the Institute to the extent possible, e.g., assisting in tutorials and/or laboratory sessions invigilation work, etc., which would help them in future as teachers.
- vii) The fellow shall present, through his/her supervisor half-yearly report on the progress of his-her work.
- viii) He/She shall before the expiry of the fellowship, present Ph.D. thesis of a standard acceptable to the Institute and supply to the Institute free of cost copy of the dissertation and the published work if any, and abstract in about 500 words of the research work done during the tenure of the fellowship.
- ix) If a fellow wish to leave the fellowship before the end of the tenure, it should be done with the prior approval of the Director. He/She should also obtain prior permission of the Director in writing for appearing at any examination conducted by any University or Public Body.
- x) One of the 3rd year Ph.D. students will act as a Rapporteur in each Ph.D. proposal/synopsis presentation on rotation to note down the discussion and recommendation. The final note should be submitted to (i) Director, (ii) Coordinator and (iii) Assistant Registrar (Academic) in separate copies. This note shall be sent to student and guide after moderation for incorporation in the thesis.

7. Termination

- i) Scholars whose progress has been found unsatisfactory (not paying fees and/or not meeting with the guide and/or non-completion of various milestones each year), upon recommendation and approval of the Guide and Advisory Committee members can be



terminated from the Ph.D. programme. In order to avoid being terminated, the scholars are to display consistency in their research work, comply with financial rules and regulations, and adhere to ethical practices during their tenure. These rules are applicable for full time as well as part time Ph.D. students.

- ii) Where the thesis is not submitted within the period of 5 years from the date of registration, the period may be extended maximum by another 2 years and in no case a candidate will be allowed to carry the registration beyond 7 years. The candidate however has to give satisfactory reasons for not completing the work within 5 years, subject to the approval of the Guide and Advisory Committee Members.
- iii) Scholars who have been terminated cannot attempt to re-register.

8. Re-Registration Provision for Ph.D

Based on the recommendation of an assessment committee consisting of advisory committee members and one external expert, Re-registration of those students who failed to submit the thesis within the maximum period of six years (seven years in case of women/PWD/in-service/part-time students) shall be allowed for a maximum period of two more years (initially for one year and then, if required for second year) with the approval of the Chairperson, Academic Council and subsequently ratified by the Academic Council. Such students should pay the re-registration fees as approved by the Academic Council/SFC.

9. Leave rules

- i) Personal leave for a maximum period of 30 days in a year in addition to general/public holidays may be taken by a fellow with the prior approval of the **Director & Sr. Professor** on recommendation of the Supervisor. The General/Public holidays, however, do not include the vacation period e.g., summer, winter and **Diwali/Pooja** vacation. The above leave may also be used for presenting papers and attending seminars.
- ii) Field leave for a maximum period of 180 days during the entire tenure of the fellowship can be considered by the Director for a scholar using exclusively primary data. Scholars using secondary data are NOT entitled to avail the above field leave. However, Director at his discretionary power may consider a maximum of three months leave for purpose of library reference work related to Ph.D. data in deserving cases of candidates using secondary data. Field leave cannot be availed for attending conference.
- iii) **Academic leave** without fellowship shall be permissible only for **one year** throughout the **tenures** (for any kind of academic assignment/teaching/foreign visit in connection with research work). The period of leave without fellowship will be counted towards the tenure. Expenditure on foreign visit in connection to research work cannot be claimed from UGC or IIPS.
- iv) The fellows are granted special leave of maximum of 10 days in a year to attend **workshop/seminar/conference** in India or abroad with the prior approval of the Director and on the recommendation of the Supervisor concerned. Fellows availing leave for attending conferences must submit along with leave application a copy of paper being presented in the conferences. Fellows availing leave for attending conferences must submit a letter of participation from the organizers/host Institutions at the time of re-joining the Institute. **The Special leave balance will not be carried for the subsequent year for attending Workshop/ Seminar/Conference.**



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- v) The special leave for attending training programme abroad/**India** for maximum of three months during the entire tenure of the fellowship is permissible with the prior approval of the Director on the recommendation of the Supervisor concerned. However, granting of fellowship for the said purpose shall be purely based on the merit of individual case and at the discretionary power of the Director. On return they are required to submit the detailed report in writing to the Director.
- vi) The women candidates may be provided Maternity Leave/Child Care Leave once in the entire duration of Ph.D. as per the prevailing UGC guidelines (currently 240 days).

Besides this an 'Intermittent Break' for a maximum period of 1 year may also be permissible to the women candidates. The leave can be availed 3 times during entire period of fellowship. However, the total duration of leave shall not exceed one year. This Flexi Time period should not be counted towards the tenure of the fellowship and thus effectively the total period of fellowship will remain the same.

Male candidates are eligible for paternity leave as per Govt. of India norms issued from time to time at full rates of fellowship once during the tenure of their award. Male candidate with less than two children may be granted 15 days Paternity Leave during the confinement of his wife for childbirth. The Paternity Leave can be availed upto 15 days before or upto six months from the date of delivery of the child. Paternity Leave shall not be debited to the leave account.

- vii) The period of leave without fellowship will be counted towards the tenure of the fellowship. The fellows are not eligible for Medical Leave. The fellows may avail personal leave for medical reasons. These leave rules are framed in accordance with the UGC guidelines and hence separate medical leave is not allowed to the fellows.

Note: Scholars are required to submit the leave forms well in advance or within the stipulated period prior to releasing the monthly fellowship, failing which no arrears for the absence period will be released.

10. Rules for utilisation of contingency grants admissible to research fellows at IIPS

- i) A Ph,D Student is required to submit the contingency claim along with all the necessary documents after completion of one year in the month of January and July irrespective of the date of joining. A student whose joining date falls between July to December will submit contingency claim in the month of January and student whose joining date falls between January to June will submit contingency claim in the month of July. The format for submission of contingency claim is given as Annexure at the end of this document.
- ii) The contingency grant of Rs. 10,000/20,500 per annum for scholars in Population Studies may be utilized on books, journals, photostat copies, hiring computer time, micro-films, typing, stationery, postage, field-work, travel, needed in connection with approved research project with approval of the concerned guide, and the Director. The expenditure on stationery and postal charges should not exceed 20% of the grant.
- iii) Contingency grant is not intended to meet expenditure on stationery items such as; pen, pencils, folders, file, cover, carbon paper, etc. and furniture items or items normally provided by the Institute or for payment of examination and other fees.



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- iv) The books purchased out of the contingency grant will be entered in the accession register of the Library of the Institute and then the books will be issued to the research fellow for their personal use and same need not be returned to the Institute.
- v) The non-consumable articles purchased out of the contingency grant will be entered in the stock register of the Store of the Institute and then the articles will be issued to the research fellow so as to ensure that on expiry/termination/relinquishment of fellowship the articles are returned to the Institute.
- vi) For all expenditure out of the contingency grant, a certificate from the guide to the effect that the expenditure incurred is in furtherance of the approved research project is necessary.
- vii) Travel allowances for approved field work/travel in connection with the research work will be admissible out of the contingency grant according to rules of the Institute.
- viii) The contingency grant of the fellowship tenure may be availed in yearly instalments from the date scholar joins the programme subject to fulfilling of conditions as stated in previous paras.
- ix) The amount remaining unspent out of the first annual contingency grant can be carried forward and utilized in the second year of the award only and thereafter only the annual provisions for contingencies may be utilized with no carry forward of any unspent balance.
- x) The bills for purchase of books/non-consumable stationery items will only be passed on production of certificate from library/stores to the effect that the items have been duly entered in the accession/stock registers.
- xi) Print out charges.
- xii) Thesis photocopy (colour as well as B/W) and binding.
- xiii) Registration fee, accommodation, travel to conference (related to Ph.D. thesis and in case it is not available from the conference).
- xiv) Expenses of Library visit to any other university (travel, accommodation (hostel/hotel) and local transport).
- xv) Stationery: A4 size papers.
- xvi) Computer accessories: External hard disk and pen drive.
- xvii) Repair of laptop and anti-virus.
- xviii) For primary data collection: For primary data collection in Districts other than home town, reimbursement of accommodation charges (Hostel/Lodge/Hotel) is possible, subject to obtaining prior approval of the Director in principle. However, the amount of claim is limited to actuals or Rs. 505/-, Rs. 405/-, Rs. 330/- and Rs. 225/- per day for A1, A, B1 and other cities, respectively, whichever is less.
- xix) Hiring charges of field instruments if any such as weight machine, height tape, voice recorder, etc. for qualitative field work.
- xx) Director's prior approval should be obtained for any expenditure requiring a sum of Rs. 500/- and above.



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- xxi) If any student is found to have misused the grant in any manner whatsoever or submitted fake bills, his/her registration/fellowship grant shall be terminated forthwith, without any further notice.
 - xxii) Fellows are required to submit the contingency claim for each year and no claim will be considered after completion of fellowship period.
11. **Payment of fees:** The candidates admitted to the Ph.D programme will have to pay the fees as per the Fee Structure uploaded on the Institute website on 1st January and 1st July every year regularly. Fee structure is same for both Full-time and Part-time Ph.D. students except that Part-time students need not pay Computer Fee and Sports Fee.
 12. **Bond:** The fellow will have to execute a bond requiring him/her to refund the fellowship received by him/her, if the fellowship is discontinued before the end of the prescribed period. The condition of bond cannot be waived or relaxed except by the Executive Council of the Institute.
 13. **Payment of fellowship:** Payment of the fellowship amount will be made to the fellows by 10th of every month.
 14. **Hostel accommodation:** Single/double/triple seated accommodation in the hostel of the Institute may be provided to research fellows, depending upon the availability of the rooms.
 15. **Medical facilities:** Ph.D. students of the Institute will have an access to free medical advice from the Medical Officers and Councillor of the Institute.



Course Contents details:

Research methodology 1- Credits 4 (60 lectures)

RM 1: ADVANCED RESEARCH METHODOLOGY

OBJECTIVES:

The aim of introducing this paper is to develop skills in different types of research methods applicable in the field of Population Studies/Bio-statistics. The main focus of this paper is to train the students with the nuance of research. The paper covering various types of research design, sampling techniques, data collection techniques and data analysis using various packages in the field of Population Studies and Bio-statistics. This paper is also intended to give an overview of statistical models commonly used in causal analyses of non-experimental data in the social and biomedical sciences. The strategy would be to simplify the treatment of statistical inference and to focus primarily on how to specify and interpret models in the context of testing causal relationships. This course will furthermore cover the orientation of statistical packages of data analysis. Apart from this, students will be taken for field trips to Hospital/Pharmaceutical companies to understand the clinical trials.

A. RESEARCH METHODOLOGY: AN INTRODUCTION

1. Types of research and its significance
2. Research Methods vs Research Methodology
3. Defining the Research Problem

B. RESEARCH DESIGN

1. Features of Research Design
2. Review of Different Research Design
3. Basic Principles of Research Design

C. SAMPLING DESIGN

1. Components of sample size α , β , prevalence, variance and difference to be detected, Importance of power, what determines power, concept of power index, estimation oriented studies-mean, proportion, comparison oriented studies, Studies involving two means, proportions, Sample size determination in case of cohort and case control studies, sample size determination in case of time to failure data, Sample-size calculations in multilevel studies
2. Review of basic sampling design: simple random sampling, stratified sampling and systematic sampling
3. Multistage sampling, probability proportion to size sampling, Estimation of mean, proportion and variance, Estimation of sample weights, design weights, weights for unit non-response, Post stratification, Sampling from imperfect frames, Sampling and Non-sampling errors
4. Sampling of large scale demographic surveys (Design, Sample Size, and Content): National Family Health Survey (NFHS), National Sample Survey (NSS) and Sample Registration System (SRS) etc.

D. MEASUREMENT AND SCALING TECHNIQUES

1. Measurement scales
2. Techniques of developing measurement tools
3. Scale Classification bases
4. Scale construction techniques



E. METHODS OF DATA COLLECTION

1. Quantitative data collection techniques
Preparation and presentation of questionnaires
2. Qualitative data collection techniques
Guidelines for Free listing, pile sorting, FGDs, In-depth interviews, Observation techniques
Preparation and presentation
Other techniques of data collection – Vignettes, mystery client technique, projective techniques,
Most significant change method
3. Mix methods in data collection

F. DATA MANAGEMENT

1. CS Pro- programme for data collection/data entry
2. Data cleaning
3. Data editing
4. Orientation to EPI info (Biostatistics and Demography)
5. Orientation of SAS (Population Studies)
6. Big Data Analysis orientation

G. QUANTITATIVE DATA ANALYSIS SKILLS

1. Simple & multiple regression, Statistical inference in the multiple regression model, Alternative functional forms for regression equations, Interpretation of the regression coefficients, Concept of standardized regression coefficients, Path coefficients, Multiple regression analysis with dummy variables, interactions involving dummy variables, Adjusted R-squared, Prediction and Residual Analysis, Presentation of the results in Multiple Classification Analysis (MCA) format
2. Simultaneous equations models, simultaneity bias in OLS, identifying and estimating a structural equation, Instrumental variable method and two stage least squares
3. Regression with binary dependent variable, the logit and probit models, Presentation of the results in Multiple Classification Analysis (MCA) format, Tobit model, Multinomial Logit Regression: The basic form of the multinomial logit model, presentation of results, interpretation of coefficients
4. Multilevel analysis and its applications, random intercept, random slopes, intra-class correlation coefficient, Assumptions in multilevel analysis, Random regression coefficients versus fixed regression coefficients, Multilevel analysis in longitudinal studies
5. Introduction to evaluation design, types of evaluation designs, Bias and error in measurement of treatment effect, Allocation of study units: randomization & matching, Difference-in- differences (DID) method, propensity score matching, Basic concept of missing data analysis

H. Applied Statistical Methods (only for those with Biostatistics background)

- Structural Equation Modelling
- Econometric Methods for Policy Analysis
- Multilevel Analysis
- Bayesian Analysis including brief about small area estimation
- Applications in Stata and R software

I. FIELD TRIP AND TRAINING

1. Hospital/Pharmaceutical companies to see the clinical trials (Bio-statistics and Demography)
2. Training of anthropometric and other measurements



EVALUATION: Written examination and assignments, like development of tools, and statistical analysis by software. The weightage for examination and assignments will be 60: 40 basis.

READING LIST:

1. C.R. Kothari (2004): *Research Methodology –Methods and Techniques*, New Age International, New Delhi.
2. Dillon, W. R. and Goldstein, M., (1984): *Multivariate Analysis*, John Willey and Sons, New York.
3. Graeme Hutcheson and Nick Sofroniou, (1999): *The Multivariate for Social Scientist*, SAGE Publications.
4. Gujarati, D.N and Sangeetha (2007) *Basic Econometrics* (Fourth edition), Tata McGraw Hill, New Delhi
5. Jones, Andrew (2007). *Applied Econometrics for Health Economists*, Radcliffe Publishing Ltd, United Kingdom.
6. Jos W. R. Twisk (2006) “Applied Multilevel Analysis” Cambridge University Press, The Edinburgh Building, Cambridge CB2 8RU, UK
7. J M Wooldridge (2009) “Introductory econometrics A Modern Approach”. CENGAGE Learning.
8. Kalton, Graham, (1983): *Introduction to Survey Sampling*, Sage Publications, Beverly Hills, London.
9. Kish, L. (1995): *Survey Sampling*, John Wiley and Sons, INC, New York.
10. Maddala, G.S (1989). *Introduction to Econometrics*, Macmillan Publishing Company, New York.
11. Murthy, M.N. (1997): *Sampling Theory, and Methods*, Statistical Publishing Society, Calcutta, India.
12. Retherford, Robert D. and Choe, Minja Kim., (1993): *Statistical Models for Casual Analysis*, John Willey and Sons, Inc. New York.
13. Roy, T.K., R Acharya and A K Roy (2016) “Statistical Survey Design and Evaluating Impact”, Cambridge University Press,
14. Roy, T.K., and Arvind Pandey (2008). *National Family Health Survey in India: Survey Design and Related Issues*, Demography India, Vol. 37 (Supplement) pp. 13-40. For survey design, student should also refer the other articles published in the Demography India, Vol. 37 (Supplement) in the year 2008.
15. Snijders, Tom A.B. and Bosker, Roel J. (1999): *Multilevel analysis: An introduction to Basic and Advanced Multilevel Modeling*. Sage Publications.
16. Bird, A. (2006). *Philosophy of Sciences*. Routledge.

Research methodology 2- Credits 4 (60 lectures)

RM-2: QUALITATIVE RESEARCH, SCIENTIFIC WRITING AND ETHICS

OBJECTIVES:

This course would acquaint the scholars with basic processes of qualitative research and would enable them to pursue research in a systematic and critical way. Given the interdisciplinary character of the demographic inquiry, the focus of the course would be on to deliberate upon how to expand the scope of research, that would provide them with some critical perspectives on the broad paradigms of socio-demographic research. The objectives of this paper is to familiarize the scholars with various qualitative research methods and their practical applications for research purposes. This will prepare the students for designing and conducting independent research and equip them with techniques of qualitative data analysis and interpretation. Another important aspect is to teach the scholars on issues related to ethical issues involved in conducting field based research and publications of their research work. It has also been observed that a majority of students enrolled in PhD programme are not adequately trained on scientific and academic writing. This paper will help the scholars to learn the ways of scientific writing in an acceptable academic standard.



A. Philosophy of Research

Science and Scientific Method - Naïve science, Pseudo-science, True science

Causation and Research Design

- Law, Theory, and Model

- Overview on Main Assumptions and Arguments of Selected Social Theories

(functionalism, conflict theory, symbolic interactionism, system theory, feminist theories, change theories)

B. Theory in Qualitative Research

1. Using the existing literature
2. Theories underlying the qualitative research
3. Approaches to qualitative research
4. Texts as data in qualitative research

C. Designing Qualitative Research

1. The qualitative research process
2. Research questions
3. Entering the field
4. Interviews, focus groups, key informants
5. Using narrative data
6. Collecting data beyond talk.

D. Writing qualitative research

1. Using documents as data
2. Qualitative research today
3. Making qualitative research relevant

E. ETHICS OF SCIENTIFIC RESEARCH

1. Introduction to Ethics in research
2. Ethical issues in design cycle
3. Ethical issues in data collection and willingness to pay in surveys
4. Ethical issues in analytic cycle
5. Ethical issues in writing report/scientific paper

F. ETHICS IN RESEARCH PUBLICATION

1. Philosophy and Ethics (Theory)
2. Scientific Conduct (Theory)
3. Publication Ethics (Theory)
4. Open Access Publication (Practical & Assignment)
5. Publication Misconduct (Practical & Assignment)
6. Database and Research Metrics (Practical & Assignment)

G. QUALITATIVE DATA ANALYSIS SKILLS

1. Data preparation
2. Developing codes
3. Making codebook and its process
4. Free listing and Pile sorting analysis using ANTHROPAK
5. In-depth Interviews, FGDs data analysis by N-Vivo/ATLAS-Ti
6. Group work - hands on data collection, data analysis and presentation



H. SCIENTIFIC WRITING

1. Layout of research proposal and dissertation
2. Techniques of interpretation
3. Preparation of policy briefs
4. Preparation of research papers
5. Preparation of posters for conference
6. Preparation of concept note

I. FIELD VISITS

1. Visit to the field sites where NGOs are conducting action/ intervention research.
2. Conducting Key Informant Interviews and Focus Group Discussions at field level and writing up.

EVALUATION: Written examinations and assignments. The assignment includes a review of a recently published book in the area of research interest of the scholar. Book review will be prepared and presented in the group/ class room. Based on the feedback from faculty and others, this will be revised and sent for publication in journals/ newspapers. The weightage for examination and assignments will be 60: 40 basis.

Reading List:

Gastel, Barbara and Robert A. Day. *How to write and publish a scientific paper.*

Turabian, Kate L. *A manual for writers of research papers, theses and dissertation* Web reference: <http://owl.english.purdue.edu>

Hollis, M. (1994) *Philosophy of Social Science: An Introduction*. Cambridge, Cambridge University Press

Booth, W. C., Colomb, G. G., Colomb, and J. M., & Williams, J. M. (2003). *The Craft of Research*. University of Chicago press.

Hennink, M., Hutter, I. and Bailey, A. (2011). *Qualitative Research Methods*, Sage Publications, London.

Schenshul, S.L, J.J. Schenshul and M.D. LeCompte (1999), *Essential Ethnographic Methods*, Altamira Press, New York.

MacIntyre, A. (1967) *A Short History of Ethics*. London.

P. Chaddah (2018). *Ethics in Competitive Research: Do not get scooped; do not get plagiarized*, ISBN:978-9387480865

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.

Indian National Science Academy (INSA), Ethics in Science Education, Research and Government (2019), ISBN:978-81-939482-1-7. http://www.insaindia.res.in/pdf/Ethics_book.pdf.

Flick, Uwe (2014). *An Introduction to Qualitative Research*, SAGE, New Delhi

Whyte, William Foote. (2001). *Street corner society*. In Down to earth sociology: introductory readings. The Free Press.

Srinivas, M. N., A. M. Shah, and E. A. Ramaswamy. (1979). *The Fieldworker and the field : problems and challenges in sociological investigation*. Delhi: Oxford University Press.



- Mukherjee, R. And P. N. Mukherjee** (2000). *Methodology in social research: dilemmas and perspectives*. Sage Publication.
- Bryman, Alan** (2012). *Social Research Methods*, Oxford University Press
- Sayer, Andrew.** (1984). *Method in Social Science: A Realist Approach*, London: Hutchinson
- Creswell, J.** (2012). *Research design: Qualitative, quantitative, and mixed methods approaches* (4th ed.) Thousand Oaks, CA: Sage
- Denzin, N, and Lincoln, Y.** (2011). *The SAGE handbook of qualitative research* (4th ed.). Thousand Oaks, CA: Sage
- Lincoln, Y.S. & Guba, E.G.** (1985). *Naturalistic Inquiry*. Newbury Park, CA: Sage.
- Lee, T. W.** (1999) *Using Qualitative Methods in Organization Research*. London: Sage.
- Marshall, C. & Rossman, G. B.**(2006). *Designing qualitative research* (4th ed.) Thousand Oaks, CA: Sage.
- Miles, M.B., Huberman, A.M. & Saldana, J.**(2014). *Qualitative data analysis: A methods sourcebook* – Third edition. Thousand Oaks, CA: Sage.
- Patton M. Q.**(2002). *Qualitative Research and Methods Evaluation*, Newbury Park: Sage.
- Silverman, D.**(2013) *Doing Qualitative Research*, London: Sage
- Berg, B. L. & Lune, H.** *Qualitative Research Methods for the Social Sciences*, 8th edition, Boston: Pearson, Allyn & Bacon. 201



OPTIONAL PAPERS (select 1 out of 4)- credits 4

The committee also looked into the five optional papers currently offered to scholars in the Pre-PhD / MPhil. courses. After reviewing the contents of each paper, it was suggested to retain the first three papers as it is –

1. **Fertility and reproductive rights**
2. **Public health and mortality**
3. **Migration, urbanization and development**

After looking into the syllabus of the optional paper – **social welfare policies and development**- it was decided to combine this paper with another existing paper- **Population and development**- considering the linkages of development with policies. it was suggested to title this paper as-

4. Population, social welfare policies and development.

So in the Pre-PhD course, scholars will be offered four optional papers dealing with four major domains of Population Studies/ Demography, and they can choose any one of their choice. The detailed syllabus and reading list of four optional papers are given below.

OPTIONAL PAPERS

A	FERTILITY AND REPRODUCTIVE RIGHTS	60 Hours
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Objectives: The purpose of this course is to provide advance knowledge in the area of fertility and reproductive rights. Students will get acquainted with new and advanced method of fertility analysis. An emphasis is also given on existing theories of fertility and their critical review. In the era of modernization, to understand nuptiality dynamics and issues regarding reproductive rights become essentials, especially in view of causes and consequences emerged from them in a society. Therefore, marriage and reproductive rights are also given due importance in this course.

1. Review of Basic Measures of Fertility and Reproduction:

Definition of natural fertility, fertility, fecundity, fecundability; Basic measures of fertility and reproduction; Cohort and period measures of fertility; Sources of fertility data; Nuptiality, Nuptiality Table and Measurements; Timings of Events-Age at first marriage, first birth, last birth, birth intervals, menarche, menopause, sterilization, Mean age childbearing; Tempo and quantum effects in fertility; Parity and birth order-distributions with Indian examples, Parity progression ratios (PPRs); Abortion (legal/illegal/safe/unsafe) and Measurement of Abortions; Birth and pregnancy histories; **Family Planning and Unmet Needa.**

2. Estimation of Fertility and Analysis:

Coale's fertility indices; Coale's-Trussel model of natural fertility; SMAM, P/F Method to estimate fertility; Decomposition of fertility; Age-pattern of Fertility, Estimating fertility through PPRs, Calculation of Bongaarts' Indices, Rele's method of estimating fertility, Reverse survival method of estimating fertility; Estimating fertility from Own-children data; Coale's (1981) Robust Procedure to Estimate fertility from single census; Estimating of fertility from CEB data using Gompertz relational model; Estimating fertility from historical data; Estimating sex ratio at birth, birth intervals, Probit analysis to estimate age of menopause; Long term fertility projections: Intergenerational Rationale and time series models

3. Using Secondary Data/Official Statistics for Small Area Planning:

Estimating number of births using different fertility indicators at district level, Total fertility rate from birth order statistics at district level, Problems of estimating fertility from HMIS data,



Projection of fertility rate at smaller level, calculating different fertility indicators from vital registration and assessing its quality, Calculation of pregnancy, fertility rate and abortion rate from survey data, Estimating wanted and unwanted fertility rate from survey data. Small area estimation techniques to derive basic fertility indicators, estimation of duration of breastfeeding/postpartum insusceptibility from large scale-survey, Estimating infertility level from survey and census data.

4. **Review of Theories and New Perspectives:**

Overview of Socioeconomic Theories and Frameworks of Fertility: Demographic Transition (FDT), Demographic Equilibrium and Demographic Convergence; Second Demographic Transition (SDT) and Below Replacement Level Fertility (BRLF) and Lowest low fertility (LLF); Causes of below replacement level fertility in developed and developing countries – country specific case studies; social, health and economic consequences; Population ageing and low fertility linkage. Health and Development Contributions of Fertility Decline in Developing Countries.

5. **Emerging Issues Related to Fertility Research:**

Determinants of fertility and lowest low fertility in developed and developing countries: postponement of marriage and child bearing, rise in life expectancy, urbanization and densification, higher education and women employment, child care options, individualism, self-interest and feminism. Recent Trends and Patterns in Fertility in developed and developing countries; Future of fertility in the Global Context and the Indian context; Pro-natalist Policies and Prospects for Reversal of Fertility Decline; Fertility postponement and Recuperation. Second Demographic Transition (SDT) in India; Low and high Fertility Context and Demographic Risk Sharing in India.

Levels and Trends in Nuptiality: Impact of declining sex ratio at birth on marriage market, Concepts and empirical patterns relating to fertility preferences-wanted/unwanted fertility, planned and unplanned births and timing of birth; Stopping Rule Behaviour (SRB) and implications for sex ratio patterns; Changing sexual, marriage and child bearing patterns among young adults. No marriage, no child and one child hypotheses; Fertility variations in low fertility context and its ramifications.

6. **Reproductive and Health Rights:**

Reproductive rights and international consensus and convictions; Definition of Reproductive and Sexual Rights; Right to choose partner; Protection from entering into Coercive Marital Union and reproduction; Right to have children: time, space and the number; Reproductive Decisions (Free from discrimination, Coercion and violence); Right to Safe Abortion, Right to Privacy; Freedom of movement, Overlap of Human, civil and reproductive rights; Right to correct sexual and reproductive health information

Reading List (Essential)

1. **Arokiasamy P. (2009).** “Fertility Decline in India: Contribution by Women without Education, *Economic and Political Weekly*, Vol. XLIV no 30: 55-64.
2. **Bongaarts, J and Potter, R. (1983).** *Fertility, Biology and Behavior: An Analysis of the Proximate Determinants*. Academic Press, New York.
3. **Bulatao, A. and J. B. Casterline (eds.) 2001,** “*Global Fertility Transition*” Supplement to Population and Development Review, Population Council, New York.
4. **Dorius(2008).** Global Demographic Convergence? A Reconsideration of Inter-country Inequality in Fertility, *Population and Development Review*, 34(3): 519-539
5. **Goldstein, J.R., T. Sobotka and A. Jasiloniene(2009).** The End of Lowest Low Fertility? *Population and Development Review*, 35 (4): 663-700.



6. **John Bryant**(2007). Theories of Fertility Decline and Evidence from Development Indicators, *Population and Development Review*, 33(1): 101-128.
7. **Preston, Samuel H., Heuveline, Patrick, and Guillot, Michel** (2001). *Demography: Measuring and Modeling Population Processes*. Oxford: Blackwell Publishers.
8. **Ron Lesthaeghe**(2010). The unfolding Story of Second Demographic Transition *Population Development Review*, 36 (2): 211-252.
9. **Siegel, Jacob S., and David A. Swanson** (eds.), (2004). *The Methods and Materials of Demography* (Second edition). San Diego: Elsevier Academic Press.
10. **United Nations** (1973). *Determinants and Consequences of Population Trends, Vol. 1*, pages 96-104, UN, New York.
11. **United Nations** (1999). *Below Replacement Fertility*, Population Bulletin of the UN, Special Issue Nos. 40/41, Department of Economic and Social Affairs, UN, New York.
12. **Wilson, C.**(2001). On the Scale of Global Demographic Convergence 1950-2000, *Population and Development Review*, 27: 155-171.

Reading List (Suggested)

1. **Bogue, Donald J., Eduardo E. Arriaga, and Douglas L. Anderson**, eds. (publication editor George W. Rumsey) (1993) *Readings in Population Research Methodology*. Chicago: United Nations Population Fund. Volume 3: Fertility Research, (All three chapters but selected pages).
2. **Palmore, James A. and Gardner, Robert W.** (1983) *Measuring Mortality, Fertility and Natural Increase: a Self-Teaching Guide to Elementary Measures*. Honolulu: East-West Population Institute, East-West Center.
3. **Pollard, A.H., Yusuf, Farhat and Pollard, G.N.** (1990) *Demographic Techniques* (third edition). Sydney: Pergamon Press.
4. **Rowland, Donald T.** (2006), *Demographic Methods and Concepts*. New York: Oxford University Press.

B	PUBLIC HEALTH AND MORTALITY	60 Hours
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Objectives: The purpose of the course is to familiarize the students with public health issues and the basic measures of health and their applications. There will be a special emphasis on Indian health systems and the policies implemented over the years. Care is taken to avoid the issues already covered in the compulsory paper titled as “Morbidity, Mortality and Public Health” (both in MPS and MA/MSc courses). Practical sessions must include fieldwork such as visit to health care facility and interaction with health administrators/personnel. The impact of Covid-19, both on the health systems and people, need attention.

Course outline:

1. Concepts and definitions:
Health, morbidity, disease burden, disability, prevalence and incidence, etc.
2. Sources of health data/information: Civil Registration, Sample Registration System (SRS), Census and other large scale surveys, completeness and quality of data.
3. Applications of health measures in planning, monitoring and evaluation;
CDR, IMR or ASDR for estimating immunization needs, clustering, patterning of death, etc.
Advanced methods of estimating/assessing mortality, and
Construction and applications of life tables (multiple decrement).
4. Age pattern of mortality: focus on adult mortality and morbidity/disease pattern
5. Avoidable mortality
6. Measures of health and burden of disease



Concepts of health expectancy, DALY, survivorship curve; epidemiological estimates for diseases (Years of Lost due to Disability- YLD),
Introduction and use of DISMOD – II software (WHO),

7. Culture, community and disease (anthropological epidemiology):
Traditional health providers (primitive/tribal/ancient) and practices, and
Cultural and socio-religious interpretation/meaning associated with diseases, and health-seeking behaviours,
8. Indian Health System: Structure, functioning, and organization,
Structure: Centre (MoHFW, Departments of Health, Family Welfare, AYUSH) and State
Facility: Type, structure, functioning,
Public (Civil, Military) versus Private (Trust, Society, NGO),
Hierarchy: State (Hospital/Medical College), District Hospital, FRU/CHC, PHC, Health Sub-Centre,
Municipal Hospital, Urban Health Post/Centre, Family Welfare Centre, Maternity Homes, Hospice/Old age Homes, Super-speciality Hospitals/ Institutions,
Health Management Information System (HMIS): Data, mapping, surveillance mechanism
Health insurance policies,
Public-private partnership (PPP) in health care: Different models and experiences, and
Decentralization of health services in India
9. Health policies and programmes:
Critical review of major international policies and declarations (UN declarations, ICPD-1994, etc.),
Indian health policies: NHP, NPP, other health programmes, etc., and
Communitization of health programmes in India: NRHM (2005-12) with focus on ASHA, ANM, RKS, and role of Panchayats (PRI).

Suggested readings

1. **Das Gupta, M and M. Rani** (2004), *India's Public Health System: How well does it function at the National level*, Policy Research Working Paper No. 3447, World Bank, Washington, D.C.
2. **Government of India** (2002), *National Health Policy*, Ministry of Health and Family Welfare, New Delhi.
3. **Government of India** (2005), *National Rural Health Mission – Framework for Implementation 2005-2012*, Ministry of Health and Family Welfare, New Delhi.
4. **Mathers, CD, T. Vos, AD Lopez, J. Salomon, and M. Ezzati** (eds) (2001). *National Burden of Disease Studies: A Practical Guide*, Global Program on Evidence for Health Policy. Geneva: World Health Organization.
5. **Mills, A, JP Vaughan, DL Smith and I Tabibzadeh** (eds.) (1993). *Health System Decentralization: Concepts, issues and country experience*, WHO, Geneva.
6. **Murray, CJL, and AD Lopez** (Eds: 1996). *The Global Burden of Disease: A Comprehensive Assessment of Mortality and Disability from Diseases, Injuries and Risk Factors in 1990 and Projected to 2020*. Global Burden of Disease and Injury Series, Vol. 1. Cambridge: Harvard University Press.
7. **Peter, D.H., AS Yazbeck, RR Sharma, GNV Ramana, LH Pritchett and AWagstaff** (2000). *Better Health System for India's Poor: Findings, analysis and options*, World Bank, Washington, D.C.
8. **VHAI** (1997). *Report of the Independent Commission on Health in India*, VHAI, New Delhi.
9. **World Bank** (2003). *World Development Report: Making services work for poor people*, Oxford University Press, Washington, D.C.
10. **World Health Organization** (2000). *World Health Report 2000. Health systems: Improving Performance*. Geneva, World Health Organization.



C	MIGRATION, URBANIZATION AND DEVELOPMENT	60 Hours
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Objectives: The rationale of this course is to advance the understanding on the issues on migration and urbanisation already studied by students at the MA/M.Sc / MPS programmes. The course would equip students the recent theoretical and empirical developments in the field of migration and urbanisation. The methods of the measurement of migration and urban processes would be emphasized along with advancing an understanding of related indicators. At the end of the course, students would be able to critically examine the policies and programmes related to migration and urban policies. This course is broadly organised under two heads- namely dealing with migration and urbanisation.

1. MIGRATION

A. Process of Migration:

1. Changing perspectives on migration in the context of globalization;
2. Demographic diversity and Migration: applications of Lee's theory, Zipf's gravity model, Stouffer's opportunities and intervening opportunities model, Roger's model of migration;
3. Demographic transition and mobility transition- the contribution of Zelinsky;
4. Wolpert decision making model of migration; New economics of migration and probability models of migration;
5. Mobility field theory to explain the decision making process and its application.

B. Consequences of migration:

1. Applications and modifications in Todaro's model of wage differentials in the context of inequalities in development in developed and developing countries;
2. Effects of migration on fertility and family Planning;
3. Effect of migration on mortality and health;
4. Migration, development, displacement and social conflict;
5. Migration, return migration and remittances;
6. Women and migration- a changing perspectives focusing on labour migration and trafficking.

C. International Migration:

1. A critical appraisal of theories of international migration;
2. Emigration from India: Patterns, Magnitude, Composition, Diasporas and Remittances;
3. Immigrants in India: Changing patterns, and profiles including refugee migration;
4. Globalization and Migration: Some pressing contradictions.

2. URBANIZATION

A. Theoretical and Conceptual Issues (10 lectures)

1. Historical evolution of urbanisation; Contribution of Castells, David Harvey and Kinsley Davis. Urbanism as a way of life (Louis Wirth);
2. Relationship between urbanisation and development- Agricultural development and urbanisation; urbanisation and industrialisation linkages;
3. Urbanisation and social change;
4. Urbanisation as a demographic process;
5. Defining urban- a cross-country comparison; urban and rural relationship; Urban hierarchy; Definitions of slum and slum demography;

B. Pattern of Urbanisation (5 lectures)

1. World pattern of urbanisation; Pattern of urbanisation in India;
2. Components of urban growth; Mega cities and urbanisation;
3. Pre-colonial, Colonial and post-colonial phases of urbanisation.
4. Modern and post-modern cities and their problems;



C. Urbanisation, Health and Environment (5 lectures)

1. Urbanisation, land use change and housing market;
2. Urban environment- air pollution; water pollution; solid waste management;
3. Urbanisation, slums and quality of life
4. Urbanisation and health; health care delivery in urban areas
5. Urban disasters- mitigation and coping strategies

D. Urban policy, Urban Planning and Programmes (5 lectures)

1. Urban policy and programmes in five-years plans
2. Jawaharal Nehru Urban Renewal Mission
3. Urban reforms and urban governance
4. Urban planning and city development strategies

Readings List

1. **Clark, David** (1996). *Urban World/Global City*, Routledge, London.
2. **Cohen, Robin** (1996). *Theories of Migration*, Edward Elgar, Cheltenham.
3. **Harvey, David** (1973). *Social Justice and City*, Edward Arnold and The Johns Hopkins University Press, Baltimore.
4. **Khadaria, B.** (2010). *India Migration Report 2009: Past, Present and Future Outlook*, Cambridge University Press, New Delhi
5. **Louis Wirth** (1938). Urbanism as a Way of Life, *The American Journal of Sociology*, Vol. 44, No. 1, (Jul., 1938), pp. 1-24.
6. **McGee, T.G.** (1971). *Urbanisation Process in the Third World*, Bell, London
7. **Manuel Castells** (1977). *The Urban Question*, MIT Press, Cambridge.
8. **Oberai, A.S. and Singh, H.K.M.** (1983) *Causes and Consequences of Internal Migration: A Study in the Indian Punjab*, Oxford University Press Delhi.
9. **Samuel, J.** (1995). *Life cycle and Female Migration: A Study of Pattern and Causes*, B R Publishing Corporation, New Delhi.
10. **Soja, Edward** (2000). *Postmetropolis: Critical Studies of Cities and Regions*, Basil Blackwell, Oxford.
11. **Steven Vertovec** (2010). *Migration: Critical Concepts in Social Sciences*, Vol.1, Routledge, Abingdon.
12. **United Nations** (2010). *World Urbanisation Prospects: The 2009 Revision*, Population Division, United Nations, New York.

D	POPULATION, SOCIAL WELFARE POLICIES AND DEVELOPMENT	60 Hours
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Objectives: The objective of this course is provide detailed understanding of the theories and issues, on poverty, inequality, regional and social development and on food and nutritional security. The course also lays emphasis on sustainable development, innovations for sustainable development, developmental policies and programmes with special reference to India and on the global perspective of development policies. Further, the purpose of the course is to familiarize the students with the basic issues related to development and social welfare policies implemented over the years. The course will encourage the students to undertake research pertaining to health systems, policies, and social and welfare aspects. Care has been taken not include the aspects which are already covered under the compulsory papers at Masters level on “population policies and programmes, and population and development”. Apart from class room lectures, assignments, case studies, lab exercises and debates are part of this paper. The class room discussions, readings, writing assignments and exams are designed to encourage the students to develop tools for understanding social welfare measures and policies which are closely linked with developmental issues in Indian context.



I. Review of Concepts, Theories and Issues

1. Review of Concepts and Development Measures
2. Theories with Emphasis on Growth Model Theories
3. Contemporary issues related to population and development – Demographic Dividend, Economics of Ageing, Economics of Health care, Social and Health issues.

II. Poverty, Inequality and Regional Development

1. Concept and Measurement of poverty, Strengths and limitations of Different Approaches, Multi-dimensional Assessment of Poverty
2. Measures of Inequality – Strengths and Limitations, Issues Related to Inequality and Equity; Social Economic and Health Inequalities.
3. Concepts and issues related to Social Exclusion
4. Regional development: Regional structure of underdevelopment in colonial and present India, regional disparities in developmental indices, Regional development Theories and (Spatial Organization, Polarized development, development from below), regional planning in India, regional social movements in India.
5. Micro Finance: Terms and Concepts of Microfinance. Microfinance as a Tool for Development. Evolution and character of Microfinance in India, Some Innovative and Creative Microfinance Models, Role of subsidies in microfinance, Case studies from Andhra Pradesh Microfinance Experiment, Role of Self Help Groups (SHG), Bangladesh Grameen Experiment, Financial Expansion.
6. Food and Nutritional Security – defining food security and hunger, evidence based assessment of food security and hunger, trends and prospects in nutritional security.

III. Population and Sustainable Development

1. Conceptual and Theoretical issues of Sustainable development:
Importance of Studying Sustainable development; Meaning, Concepts and Definitions, context and issues; Inter-linkages between ecology and development; Conventional perspectives on development; Critics of Conventional Development perspectives; Critiques of sustainable development perspectives; Biophysical limits to growth: Malthus, Ricardo, Ehrlich-Commoner model, K Boulding, Nicholas Georgescu-Roegen and H Daly models. Modern Environmental principles and philosophies- gaia, eco-feminism, deep ecology, gender and environment, eco-feminism, Marxian views and Gandhian views.
2. Population, Society and Sustainable Development:
Population and resources; 'Population stabilization' to 'Population balance'; Population and food; Migration, population change and rural environment; Population, environment and development in Urban settings; Development and urban ecology; Slums, Urban Poverty and Rehabilitation. Resettlement and rehabilitation of people: Its problems and concerns; Indigenous population and traditional methods of environmental sustainability; Common property resources and rural poor in India. Environmental conflicts and movements in India. Vulnerability of Indigenous population; Population, poverty and vulnerability; Case Studies – Sacred forests, Anti-Eucalyptus movement, Narmada and Vedanta (Orissa) Projects.
3. Population, Quality of Life and environment Linkages:
Quality of life: definition and measurement; environmental health hazards, Causes and Effects of Pollution; Different types of pollution, Case studies on pollution; Global environmental pollution.
4. Innovations for Sustainable Development:
Why making policy on environment is difficult, Case studies based on experiences from developed and developing countries; How the concept of sustainability has influenced the policy,



programme practice in development sectors., World summits- issues and challenges, Issues related to natural resources management; Emerging new institutions of environmental protection; Capacity Building, Technology Transfer for Sustainable Development; Creating and managing emission related norms; Some success models of efficient environmental management – CNG, Smokeless Choolah, and other successful green models.

IV. Developmental Policies and Programmes:

1. Developmental policies and programmes with special reference to India, policies related to environment.
2. Global Perspective of Development and environmental policies

V. Social Policies

1. Introduction: Defining social policy, need for social policies, overview of social and welfare policies, evolution of social and welfare policies. Social policies linked with development and population: Rights approach,
2. Gender and development: Theoretical issues and recent developments, gender dimensions of policy making, social construction of gender, ‘engendering’ development

VI. Welfare policies and measures in India at different sectors:

- a. Health b. Education c. Food and nutrition d. Water and Sanitation
- b. Housing f. Youth g. Women and children h. Aged i. Social security

VII. Health policies and programmes:

Critical review of major Indian/international declarations, ICPD-1994, NPP-2000, NHP-2017, recent health programmes, success stories, etc.

Evaluation of social welfare and health policies: Macro level and micro level, coverage and quality, beneficiary assessment.

Reading List

1. **Alkire, S. and Santosh** (2010). *Acute Multidimensional Poverty: A New index for developing countries*, Oxford Poverty & Human Development initiative (OPHI) Working paper 38, Oxford Department of International Development, University of Oxford.
2. **Alkire, S.**(2007).*The Missing Dimensions of Poverty Data: Introduction to the Special Issue*, Oxford Development Studies, 35 (4), 347-359.
3. **Atkinson, AB and Bourguignon F.***Introduction to Handbook of Income Distribution*.
4. **Beatriz Armendáriz and Jonathan Morduch**(2005). *The Economics of Microfinance*, The MIT press.
5. **Bryant H Richard** (1996). *Physical Geography Made Simple*, Rupa C Publication.
6. **Bourguignon, F and Chakravarty SR.** (2003). The Measurement of Multidimensional Poverty, *Journal of Economic Inequality*, 1(1), 25-49.
7. **Bründtland, GH (ed.)**(1987). *Our Common Future: The World Commission on Environment and Development*, Oxford, Oxford University Press.
8. **Burchart, T Grand, JL and Piachaud, D**(2002). *Understanding Social Exclusion*. Oxford University Press, London.



9. **Chakravorty, S.** (2005). The History and Geography of Regional Development Theory: A Futile Search for a Paradigm; in N. Banerjee and S. Marjit (eds.) *Development, Displacement and Disparity*. Orient Longman, New Delhi: pp. 29-52.
10. **Datt, R.** (2008). *Growth, Poverty and Equity: Story of India's Economic Development*. Deep and Deep Publication, New Delhi.
11. **Deaton, A.** (2003). Health, inequality, and economic development. *Journal of Economic Literature* 41: 113–58.
12. **Gordon, D et. al.** (2000). Poverty and Social Exclusion in Britain, *Joseph Rowntree Foundation*, The Homestead, New York.
13. **Goudie Andrew** (1994). *The nature of the Environment*, Blackwell Publishers.
14. **Hussain Ahmed** (2000). *Principles of Environmental Economics*, Routledge.
15. **Karmakar K.G.** (2008). *Microfinance in India*, SAGE.
16. **Lafferty W. (ed.)** 2004. *Governance for Sustainable Development. The Challenge of Adapting form of Functions*, Cheltenham: Edward Elgar, (chapter 1 and 11).
17. **McNicoll, Goefferey** (2005). *Population and Sustainability*. Working paper No.205. New York, Population Council.
18. **O'Neill et al.** (2004). Population, Greenhouse Gas Emissions and Climate Change. Essay in book: Lutz W. et al. (editors). 2004. *The End of Population Growth in the 21st Century* London: Earthscan Our Common Future, Report of the World Commission on Environment and Development
19. **Rangarajan M.** (2007). *Environmental Issues in India*, Pearson Langman.
20. **Sen, A.K.** (2000). Social exclusion: Concept, Application and Scrutiny, *Social Development Papers No. 1*, Asian Development Bank, Malina, Phillippines.
21. **Sen A.** (1997). *On Economic Inequality*. Oxford: Clarendon Press.
22. **Shiva Vandana** (1988). *Staying Alive: Women, ecology and Development*, ZED Books.
23. **Stern O.** (2006). *The Economics of Climate Change*, Cambridge.
24. **Susan Johnson, Ben Rogaly** (1999). *Microfinance and poverty reduction*, OXFAM.
25. **UNDP** (2010). *Human Development Report 2010*, Palgrave Macmillan, New York.
26. **UN.** (2001). *Population, Environment and Development: A concise report*.
27. **University Grant Commission** (2005). Text Book of Environmental Studies. Universities Press
28. **Wagstaff A, Paci P, Van Doorslaer E.** (1991). On the measurement of inequalities in health. *Social Science & Medicine* 33: 545–57.
29. **Yunus Md.** (2007). *Banker to the Poor: Micro-Lending and the Battle Against World Poverty*, Public Affairs, New York.
30. **World Health Organization** (2000). *World Health Report 2000. Health systems: Improving Performance*. Geneva, World Health Organization. Also available on the worldwide web at www.who.int/whr.
31. **Bründtland, G.H.** (1987). *Our Common Future: The World Commission on Environment and Development*, Oxford, Oxford University Press.
32. **Davis, Kingsley and Mikhail S. Bernstam** (eds.) (1991), *Resources, Environment, and Population: Present Knowledge, Future Options*. New York: Oxford University Press.
33. **Dawson, P. J, and R. Piffin**, (1998). Is there a long run relationship between Population growth and living standards? The case of India, *Journal of Development Studies*, 34. 149-156
34. **Holdren, J. P., and P. R. Ehrlich** (1974). Human population and the global environment. *Am. Sci.* 62: 282-292.
35. **Kem, R., Parto, S. and Gibson, R.B.** (2005). Governance for Sustainable Development: Moving from theory to practice, *The International Journal of Sustainable Development*, 8(1/2), 12-30.
36. **McNicoll, Goefferey** (2005). *Population and Sustainability*. Working paper No.205. New York, Population Council.
37. **Preston, Samuel H.** (1994). *Population and Environment: From Rio to Cairo*. Liège: International Union for the Scientific Study of Population (IUSSP).



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38. **Simon, Julian L.** (1996). *Population Matters: People, Resources, Environment, and Immigration*. Transaction Publishers: New Brunswick, NJ.
39. **UNFPA** (2009). *State of World Population- 2009: Facing a changing world: Women, Population and Climate*, UNFPA, New York.
40. **Sabatier, Paul** (2007). *Theory of the policy Issues*, West View Press, Colorado.
41. **Dreze, Jean and Amartya Sen** (1996). *Indian Development: Select Regional Perspectives*, Oxford University Press, New Delhi.
42. **Baldock, J, N. Manning and S. Vickerstaff** (2007). *Social Policy*, Oxford University Press, New York.
43. **Government of India** (2008). *Eleventh Five Year Plan 2007-2012: Social Sector*, Planning Commission, Oxford University Press, New Delhi.



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Ph.D –JOINING REPORT [Annexure-I]

To
The Director
International Institute of Population Sciences
Deonar, Mumbai

Date:.....

Sub: Ph.D. Joining Report – Reg.

Ref: Your admission letter No. _____ dated. _____

Respected Sir,

With reference to your letter cited, I hereby join the Ph.D. [Full time / Part-time] programme in the Department of _____, International Institute of Population Sciences-Mumbai on _____, under _____ fellowship. In case of UGC or any other fellowship, mention award letter No. _____, and date _____.

Attach fee receipt.

Thanking You,

Yours faithfully,

(Signature of the candidate with date)

Name: Mr. / Ms. _____

Enrolment No. : _____

Mobile No: _____

Email: _____

Office Use Only

Forwarded

Checked by :.....

Not Recommended /Recommended

Assistant Registrar(Acad)
Ph.D Coordinator

Approved

Director & Sr.Professor



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Website: <http://www.iipsindia.ac.in>

APPLICATION FOR CONCEPT NOTE [Annexure-II]

PART A: FOR STUDENT'S USE

To
Assistant Registrar (Acad.)
IIPS. Deonar, Mumbai 400 088

Sir,

With due respect, I request to kindly consider my application and allow me to submit concept note. The particulars of my Ph.D. is given below;

1.	Name of the Ph.D. Scholar	:	
2.	Enrolment No. & Date of Admission	:	
3.	Date of Ph.D Registration	:	
4.	Proposed title of the thesis	:	
5.	Admission Fee Receipt	:	

SUMMARY OF THE CONCEPT NOTE:

Ph.D Supervisor	Title of the Proposed Work	Objectives of the Study	Data Sources
		1 2 3	Primary..... Secondary.....

Student will have to submit the detailed Concept Note containing (a) Introduction/Background/Problem statement, (b) Rationale, (c) Aims and Objectives, (d) Method (how you are going to investigate your research question/s/research design), (e) Proposed source of data, (f) Instruments, (g) Method of Data Collection/Procedure, (h) Method of Data Analysis, (i) Contribution to knowledge/originality, and (j) References etc., should be submitted with signature of student and his/her Ph.D Supervisor.

Yours Sincerely,

(Signature of the candidate with date)

Name: Mr. / Ms. _____

Enrolment No. : _____

Mobile No: _____

Email: _____



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Website: <http://www.iipsindia.ac.in>

..2..

PART B: FOR OFFICE USE ONLY

Mr./Ms..... was admitted to Ph.D. programme on....., and he has completed from the date of admission, and would like to submit his Concept Note.

Remarks:

O.S.

(Acad. Section)

Asstt. Registrar (Acad.)

Ph.D Coordinator

(Remark.....)



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Website: <http://www.iipsindia.ac.in>

APPLICATION FOR PRESENTATION OF PH.D PROPOSAL [Annexure-III]

PART A: FOR STUDENT'S USE

To

Assistant Registrar (Acad.)

IIPS. Deonar, Mumbai 400 088

Sir,

With due respect, I request to kindly consider my application and allow me to present my Ph.D. Proposal as per availability of dates. The particulars of my Ph.D. work is given below;

1.	Name of the Ph.D. Scholar	:	
2.	Enrolment No. & Date of Admission	:	
3.	Date of Concept Note approval	:	
4.	Title of the Ph.D. thesis	:	
5.	Current Extension Period	:	
6.	Current Semester Fee Receipt	:	

Student are required to submit detailed Research Proposal along with this form.

Signature with date

:

Name of the Students

:

Contact details (mobile and email)

:

PART B: FOR SUPERVISOR AND ADVISORY COMMITTEE MEMBERS

SUPERVISOR	Remarks:
Signature : Name: Date:	
Advisory Committee Member (i)	Remarks:
Signature : Name: Date:	
Advisory Committee Member (ii)	Remarks:
Signature : Name: Date:	



..2..

PART C: FOR OFFICE USE ONLY

Mr./Ms..... was admitted to Ph.D. programme on.....
His/her Concept Note was approved onand would like to present his Ph.D Proposal
on Further it is stated that Scholar has paid fees for the current semester
i.e.,to.....

The date of proposal presentation is

O.S. (Acad. Section)

Asstt. Registrar (Acad.)

Ph.D

(Remark.....)

Coordinator

Director & Sr. Professor



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APPLICATION FOR SUBMISSION OF REVISED PH.D PROPOSAL[Annexure-IV]

(Candidate is required to submit the revised Research Proposal within one month from the date of issue of office memo)

PART A: FOR STUDENT'S USE

To

Assistant Registrar (Acad.)

IIPS. Deonar, Mumbai 400 088

Sir,

With due respect, I request to kindly consider my application and allow me to present my Ph.D. Proposal as per availability of dates. The particulars of my Ph.D. work is given below;

1.	Name of the Ph.D. Scholar	:	
2.	Enrolment No. & Date of Admission	:	
3.	Date of Concept Note approval	:	
4.	Title of the Ph.D. thesis	:	
5.	Current Extension Period	:	
6.	Current Semester Fee Receipt	:	
Student are required to submit detailed Research Proposal along with this form.			

Signature with date

:

Name of the Students

:

Contact details (mobile and email)

:

PART B: FOR SUPERVISOR AND ADVISORY COMMITTEE MEMBERS

SUPERVISOR	Remarks:
Signature : Name: Date:	
Advisory Committee Member (i)	Remarks:
Signature : Name: Date:	
Advisory Committee Member (ii)	Remarks:
Signature : Name: Date:	



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SYNOPSIS SUBMISSION FORM[Annexure-V]

PART A: FOR STUDENT'S USE

1.	Name of the Ph.D. Scholar	:	
2.	Enrolment No	:	
3.	Date of Admission	:	
4.	Date of Concept Note approval	:	
5.	Date of Ph.D. Proposal Presentation	:	
6.	Title of the Ph.D. thesis	:	

A. Research articles published(If available)

Sr. No.	Title of the Research Article	Journal Name	Volume No.	Issue No.	Page Nos.	Year
1						
2						

B. Research articles communicated for publication(If available)

Sr. No.	Title of the Research Article	Journal Name	Present Stage
1			
2			

C. List of papers presented in Conferences/Seminars(If available)

Sr. No.	Title of the Research Article	Name of conference/seminar	Organizer	Date(s)	Oral/poster presentation
1					
2					

I have emailed a soft copy of the synopsis to the Academic Office.

I certify that my work is based on the discovery of new facts by me or of new relations of facts observed by others and the work tends to the general advancement of knowledge. The enclosed synopsis clearly states the sources from which my information has been derived and the extent to which I have based my work on the work of others, and the portion or portions of my thesis which I claim as original. For the thesis which I intend to submit, no degree or diploma has been conferred on me before either in this or in any other University or body, further I have not submitted the synopsis of my thesis or my thesis to any other University or body.

Yours Sincerely,

(Signature of the candidate with date)

Name: Mr. / Ms. _____

Enrolment No. : _____

Mobile No: _____

Email: _____

Enclosed: Signature copy of Synopsis.

..2/-



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..2..

PART B: FOR SUPERVISOR AND ADVISORY COMMITTEE MEMBERS

CERTIFICATE OF SUPERVISOR	
I certify that the thesis to be presented by _____ represents his/her original work which was carried out by him/her at _____ under my guidance and supervision during the period from _____ to _____.	
I further certify that the foregoing statements made by him/her in regard to his/her thesis are correct to the best of my knowledge.	
Date: _____	
Signature _____	
Name of SUPERVISOR: _____	
The synopsis is recommended for submission	
Advisory Committee Member (i)	Signature: Name: Date:
Advisory Committee Member (ii)	Signature: Name: Date:

PART C: FOR OFFICE USE ONLY	
Mr./Ms..... was admitted to Ph.D. programme on.....	
His/her Concept Note was approved onand presented Ph.D Proposal on	
Further it is stated that Scholar has paid fees for the current semester i.e.,to.....	
The tentative date(s) available for the presentation is / are.....	
O.S. (Acad. Section)	
Asstt. Registrar (Acad.)	
Ph.D Coordinator	
(Remark.....)	
Director & Sr. Professor	



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RAPPORTEUR REPORT [Annexure-VI]

Name of the Ph.D. Scholar:
Title of the Ph.D. Proposal / Synopsis:
Name Ph.D. Supervisor & Advisory Committee:
Date, time and venue of Presentation:
Name of Rapporteur:
Date of Rapporteur Report submission:

The following comments/suggestion/remark/questions has been made during the presentation.

Sr. No.	Comments/Suggestion made by (Expert/ Faculty/ Ph.D. Scholar)	Question/ Remark	Replied to Comment/Suggestion/ Question/Remark

Signature of the
Rapporteur.....
Name of the
Rapporteur.....
Contact
number.....



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REVISED SYNOPSIS SUBMISSION FORM[Annexure-VII]

(After the presentation of the synopsis Candidate is required to submit the revised synopsis within one month from the date of issue of office memo by incorporating the suggestion given by the students and faculty during the presentation.)

1.	Name of the Ph.D. Scholar	:	
2.	Enrolment No	:	
3.	Date of Admission	:	
4	Date of Concept Note approval	:	
5	Date of Ph.D. Proposal Presentation	:	
6	Date of Synopsis Presentation	:	
6	Title of the Ph.D. thesis	:	

I have incorporated additions / alterations, etc. as suggested by the facultys/students. A certificate to t his effect from my supervisor is appended below.

Yours Sincerely,

(Signature of the candidate with date)

Name: Mr. / Ms. _____

Enrolment No. : _____

Mobile No: _____

Email: _____

CERTIFICATION FROM SUPERVISOR

Certified that the corrections / alterations as suggested by the the facultys/students have been incorpor ated by the student .

Date: _____

Signature: _____

Name of Supervisor: _____



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PANEL OF Ph.D THESIS EXAMINERS [Annexure-VIII]

CONFIDENTIAL

1.	Name of the Ph.D. Scholar	:	
2.	Enrolment No	:	
3	Title of the Ph.D. thesis	:	
NAME OF EXAMINERS			
1	Name: Present Position: Postal Address: Phone/Mobile nos.: E-mail:	2	Name: Present Position: Postal Address: Phone/Mobile nos.: E-mail:
3	Name: Present Position: Postal Address: Phone/Mobile nos.: E-mail:	4	Name: Present Position: Postal Address: Phone/Mobile nos.: E-mail:
5	Name: Present Position: Postal Address: Phone/Mobile nos.: E-mail:	6	Name: Present Position: Postal Address: Phone/Mobile nos.: E-mail:

I the supervisor(s) of the thesis, do not have any potential conflict of interest with the above suggested examiners.

Signature _____

Name of Supervisor: _____

Date: _____



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THESIS SUBMISSION[Annexure-IX]

(A Ph.D. Candidate should submit his/her thesis within 3 months from the date of presentation of the synopsis.)

To,
The Assistant Registrar (Academic)
IIPS-Mumbai
Deonar, Mumbai

I am submitting electronic / Spiral copy(s) of my thesis, the title of which is :

All the copies of the thesis have been prepared in accordance with the rules and regulations of the Institute.

I state that the work embodied in this thesis forms my own contribution to the research work carried out under the guidance of _____. This work has not been submitted for any other degree to this or any other University. Whenever references have been made to previous works of others, it has been clearly indicated.

Yours Sincerely,

(Signature of the candidate with date)

Name: Mr. / Ms. _____

Enrolment No. : _____

Mobile No: _____

Email: _____

CERTIFICATION FROM SUPERVISOR

I certify that the thesis represents original work carried out by the candidate under my supervision.

Date: _____

Signature: _____

Name: _____

Enclosed: Payment receipt of Thesis submission.



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FINAL SUBMISSION OF THESIS REPORT (Ph.D.) [Annexure-X]

(A Ph.D. Candidate shall submit to the Academic Office the four copies of his/her approved thesis, duly bound, together with the application for submission of the same in the prescribed format, within one month, from the date of issue of OM to him/her.)

To,
The Assistant Registrar (Academic)
IIPS-Mumbai
Deonar, Mumbai

I am submitting electronic / four bound copy(s) of my thesis, the title of which is :

All the copies of the thesis have been prepared in accordance with the rules and regulation of the Institute.

I have incorporated additions / alterations, etc. as suggested by the external examiner / board of examiners. In view of the above, I hereby request you to conduct my Ph.D. Viva-Voce at your earliest convenience.

Yours Sincerely,

(Signature of the candidate with date)

Name: Mr. / Ms. _____

Enrolment No. : _____

Mobile No: _____

Email: _____

CERTIFICATION FROM SUPERVISOR

Certified that the corrections / alterations as suggested by the external examiner / board of examiners have been incorporated by the student, and the four bound copies of the thesis may be accepted. I recommend Controller of Examination to kindly initiate necessary action to conduct Ph.D. Viva-voce.

Date: _____

Signature: _____

Name of Supervisor: _____

CERTIFICATION FROM LIBRARY

This is to certify that the Library is in receipt of soft copies of the thesis.

LIBRARY AND INFORMATION OFFICER

Enclosed: Documents as per checklist.



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CERTIFICATE OF GENUINENESS FOR PUBLICATION[Annexure-XI]

This is to certify that the Ph.D. scholar Mr/Ms.....working under my supervision has published research articles as listed below.

A. Research articles published

Sr. No.	Title of the Research Article	Journal Name	Volume No.	Issue No.	Page Nos.	Year
1						
2						
3						

B. Research articles communicated for publication

Sr. No.	Title of the Research Article	Journal Name	Present Stage
1			
2			
3			
4			

C. List of papers presented in Conferences/Seminars

Sr. No.	Title of the Research Article	Name of conference/seminar	Organizer	Date(s)	Oral/Poster presentation
1					
2					

The contents of his / her publication /s and presentation/s in the conferences/seminars, incorporates part of the results presented in his/her Thesis.

Date: _____

Signature: _____

Name of Supervisor: _____



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Check list for Ph.D. viva-voce*[Annexure-XII]*

1. Signature copy of Application Final Submission of Thesis
2. Four hard bound copies of the Ph.D. Thesis duly signed by the Ph.D. Scholar and Guide.
3. Pdf version of revised synopsis and Ph.D. Thesis.
4. Copies of published research articles of the Ph. D. scholar.
5. Copy of correspondence with the publisher (Research Articles communicated for publication).
6. Copies of certificate of attendance in Conference, Seminar etc.
7. Certificate of Genuineness for Publication.
8. Copies of fee receipts.
9. No dues certificate.

Signature	
Name of the Scholar	
Contact details (Mobile and Email ID)	



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THESIS EVALUATION REPORT[Annexure-XIII]

Confidential

[To be completed by the Ph.D. Thesis Examiner]

Part A:Ph.D. THESIS DETAILS

1.	Name of the Ph.D. Scholar	:	
2.	Title of the Ph.D. thesis	:	

Part:B THESIS EXAMINER'S RECOMMENDATION

Please send detailed report on the thesis on separate sheet, and specific recommendation by ticking any one of the following options)

d) The Thesis is recommended for award of Ph.D. degree.	<input type="checkbox"/>
e) The Thesis is to be modified before the award of Ph.D. degree.	<input type="checkbox"/>
f) Thesis is rejected.	<input type="checkbox"/>

(Signature of the Examiner)

Name:

Designation:

Address:

.....

.....

Mobile Number:

N.B: 1. A detailed Report is enclosed in a separate sheet

2. The Institute requires a signed report from the examiner.



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VIVA-VOCE REPORT OF PH.D. STUDENTS[Annexure-XIV]

Title of Ph.D. Thesis:
Name of Research Scholar:
Enrollment Number:
Name/Designation of Research Supervisor:
Date of submission of the Ph.D. Thesis:
Date of Ph.D. Defence Viva-Voce:

RECOMMENDATIONS

The Defence Examination Board evaluated the Ph.D. work and thesis of the candidate taking into account the queries/questions raised by the external examiners and recommend that (tick one):

1. The thesis in the present form is recommended for the award of the Ph.D degree **in Population Studies** of the International Institute for Population Sciences, Mumbai. ☐
2. The thesis is recommended for the award of the degree. However, suggestions for modifications of the thesis based on the discussions during the defence examination and detailed in a separate sheet, be incorporated in the thesis. ☐
3. The thesis is not acceptable for the award of the degree. ☐

Overall Comments of the board on the Viva-Voce Examination.....
.....
.....
.....

Defence Examination Board

Signature of Supervisor	Signature of External Thesis Examiner	Signature of Chairperson
Name: Designation: Address:	Name: Designation: Address:	Name: Designation: Address:



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INSTITUTE SEMESTER REGISTRATION FORM (Ph.D.) [Annexure-XV]

(To be submitted at the beginning of each semester on payment of the registration fee)

1.	Name of the Ph.D. Scholar	:	
2.	Enrolment No	:	
3.	Date of Admission	:	
4.	Date of Concept Note approval	:	
5.	Title of the Ph.D. thesis	:	
6.	SEMESTER TO WHICH ADMISSION IS SOUGHT	:	
7.	Semester fee payment details	:	Payment Amount: Date:
8.	Mandatory Enclosure:- 1. Self Attested Payment receipt 2. Approved copy of half yearly progress report		1. Yes() No() 2. Yes() No()

:

(Signature of the candidate with date)

Name: Mr. / Ms. _____

Enrolment No. : _____

Mobile No: _____

Email: _____

CERTIFICATION FROM SUPERVISOR

Certify that he/she is eligible for admission inSemester.

(Signature of the Supervisor with date)

Name of Supervisor _____



FORMAT FOR SUBMITTING HALF YEARLY PROGRESS REPORT AND WORK TO BE DONE IN REPORTING MONTHS BY PH.D STUDENTS FOR EXTENSION OF FELLOWSHIP [Annexure-XVI]

Date of Submission : _____

1	Name of the Ph.D. Scholar	:	
2	Enrolment No	:	
3	Date of Admission	:	
4	Title of the Ph.D. thesis	:	

Date of Registration : <u>dd/mm/yyyy</u>	Date of Concept Note approved
Type of Fellowship :	<u>dd/mm/yyyy</u>
Existing Ph.D work extension period from <u>dd/mm/yyyy to dd/mm/yyyy</u> [Not applicable in case of Part Time Student)	Date of Proposal Presented : <u>dd/mm/yyyy</u> , If not presented tentative Date of Proposal Presentation : <u>dd/mm/yyyy</u>
Tentative Date of Synopsis Presentation: <u>dd/mm/yyyy</u>	Date of Part Time conversion <u>dd/mm/yyyy</u>
Date of Fees paid: dd/mm/yyyy (attach Receipt)	
Semester: III/IV/V/VI/VII/VIII/IX/X	

Work being done in reporting months (no narrative only bullets) From dd/mm/yyyy to dd/mm/yyyy	Work done in earlier three months* (no narrative only bullets) From dd/mm/yyyy to dd/mm/yyyy

* It is mandatory to submit detailed progress report separately duly approved by the Guide and Advisory Committee along with this form

Name & Signature of Ph.D Student

...2/-



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..2..

Recommendation

Supervisor	Ph.D progress report submitted by the student is satisfactory / non satisfactory.(<i>please tick</i>) Any other remarks:
Signature : Name: Date:	
Advisory Committee Member (i)	Ph.D progress report submitted by the student is satisfactory / non satisfactory.(<i>please tick</i>) Any other remarks:
Signature : Name: Date:	
Advisory Committee Member (ii)	Ph.D progress report submitted by the student is satisfactory / non satisfactory.(<i>please tick</i>) Any other remarks:
Signature : Name: Date:	

Student will have to fill up the above form, and obtain the report of the Guide and Advisory Committee members and submit to the Academic Section for further process.



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FORMAT FOR ENHANCEMENT OF FELLOWSHIP FOR Ph.D. DEGREE

[Annexure-XVII] (After two years of admission)

1	Name of the Ph.D. Scholar	:	
2	Enrolment No. & Date of Admission	:	
3	Date of Ph.D Registration	:	
4	Proposed title of the thesis	:	
5	Date of seminar (Enhance of fellowship)	:	
6	Details of Publications in Journals/ Conferences, if any (Published/Accepted/Communicated):		

Recommendation

Supervisor	Progress of the scholar is <u>satisfactory/ unsatisfactory</u> (please tick) and <u>recommends/does not recommend</u> (please tick) an enhancement in fellowship.
Signature : Name: Date:	
Advisory Committee Member (i)	Progress of the scholar is <u>satisfactory/ unsatisfactory</u> (please tick) and <u>recommends/does not recommend</u> (please tick) an enhancement in fellowship.
Signature : Name: Date:	
Advisory Committee Member (ii)	Progress of the scholar is <u>satisfactory/ unsatisfactory</u> (please tick) and <u>recommends/does not recommend</u> (please tick) an enhancement in fellowship.
Signature : Name: Date:	



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Application for Conversion of Candidature from Full-time to Part-time[Annexure-XVIII]

1.	Name of the Ph.D. Scholar	:	
2.	Enrolment No. & Date of Admission	:	
3.	Date of Ph.D Registration	:	
4.	Proposed title of the thesis	:	
5.	Date of Concept Note approval	:	
6.	Reason of conversion from Full Time to Part time: (Employment/other) (Please ✓ the relevant)	Remark for other reason_____	
		In case of employment furnish the following details:	
		(i) Name of Employer:	
		(ii) Date of appointment:	
		(iii) Attach appointment and joining letter:	
		(iv) NOC from the employer permitting the student continue part time Ph.D. programme.	
7.	i) Tentative date of Proposal presentation ii) Tentative date of Synopsis presentation iii) Tentative date of Thesis submission	i) ii) iii)	
8. Detailed work schedule for completion of remaining research work and thesis writing after conversion:			
	From	To	Work to be completed

(Signature of the candidate with date)

Name: Mr. / Ms. _____

Mobile No: _____

Email: _____

Recommendation

Supervisor:	Recommended/Not recommended for conversion from Full Time to Part Time (Remark, if any)
Name:.....	Signature:.....Date:.....
Advisory Committee Member (i)	Recommended/Not recommended for conversion from Full Time to Part Time (Remark, if any)
Name:.....	Signature:.....Date:.....
Advisory Committee Member (ii)	Recommended/Not recommended for conversion from Full Time to Part Time (Remark, if any)
Name:.....	Signature:.....Date:.....

NOTE: The request for conversion from full time/part time to off campus shall be considered only if:

I. Submission of fee receipt for current semester.

II. Recommendation of the Guide

* Student will have to submit duly filled in form with the recommendation of the Guide and Advisor Committee Members to Academic Section for further process.



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CLAIM FORM FOR CONTINGENCY GRANT FOR PHD STUDENTS REGISTERED UNDER GOI

FELLOWSHIP [Annexure-XIX]

FORM A

Name of Student:	Course: Ph.D :
Date of Joining:	Course : Population Studies or Biostatistics & Demography
Date of Concept note approved	Date of Proposal Presentation:
Duration of present extension tenure From To.....	Contingency claimed for 1 st / 2 nd /3 rd /4 th Year

Expenditure details given below:

Sr. no.	Type of Expenditure	Name of the vendor	Invoice no.	Date	Amount
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
	Total				

I have attached prior approval for above expenditure. Contingency claim have been submitted for the extension period from to..... for First/Second/Third/fourth year. It requested to kindly approve admissible contingency grant as per rule.

(Signature of the candidate with date)

Name: Mr. / Ms. _____

Mobile No: _____

Email: _____

Payment for contingency grant is recommended / not recommended.

Signature and Name of the Guide/Supervisor

OFFICE USE ONLY

As per IIPS Ph.D rule, claim of the Student is admissible/ not admissible. Student is entitled for Rs. contingency grant for the period from..... to..... for First/Second/Third/fourth year

Academic Section

Remark

Remark

Incharge – Academic Section

M.Phil / Ph.D Coordinator

Approved / Not Approved

Director & Sr. Professor, IIPS.

List of Enclosures:

i. Bills of Purchase/Repair of laptop in original	ii. Bills/ tickets/ boarding pass reg. travel for conf./ research/ workshop./etc.	iii. Participation certificate of conference/workshop/seminar, etc.
iv. Any foreign transaction, the details should be produced in INR also		
Bills should be in original, online bills should be in proper order with correct invoice number, tax deductions, date and name of the student		



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FORM B

FORM FOR OBTAINING PRIOR APPROVAL FOR UTILIZING CONTINGENCY GRANT

Name of the Student	
Course	
Joining Date	
Fellowship Type	
Period of Contingency Claim	1 st year/2 nd year/3 rd year/4 th year/5 th year
Purpose for which prior approval is required	
Amount (approx..)	

Signature of the Student: _____

Name of the Student: _____

Date: _____

Recommended/Not Recommended Remarks	
Name of the Supervisor/Guide	
Signature	

Date: _____

Forwarded to:
Academic Section



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APPLICATION FOR REGISTRATION/CONTINUATION OF REGISTRATION FOR PH.D. PROGRAMME/[Annexure-XX]

The Director,
IIPS, Deonar,
Mumbai-400088.

Sir,

I hereby apply to register myself/continue my registration for the Ph.D. programme of the Institute.
My details are furnished below:

A sum of Rs. _____ (Rupees _____) has
been also paid on account of the fee vide Receipt No. _____
dated _____.

Name of the Candidate : _____

Enrollment No. : _____ Date of Joining: _____

Date of Birth : _____

Address : _____

Marital Status : _____

Nationality : _____

Whether holding fellowship : GOI/UGC

If yes, give details of fellowship : _____

Highest Degree Obtained : _____ Sub : _____

Name of University : _____

Year of obtaining degree : _____ Class/Div. obtained : _____

Percentage of Marks/Grade : _____

Were you a past student of IIPS : Yes/No

If yes, course of study attended : _____

Year of passing : _____ Division : _____

Percentage of Marks/Grade : _____

Proposed topic for Ph.D. : _____

Proposed Thesis title : _____

Name and Designation of the proposed Guide: _____

Data to be used : Primary/Secondary

Date: _____ Student's Signature : _____

*Concurrence of the proposed Guide : _____
(Guides are requested to ensure that the Ph.D. students under their guidance at any given time
does not exceed the prescribed limit including the above student.)

..2/-



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..2..

For Office Use only

Mr./Ms. _____ has been selected for admission to Ph.D. programme of the Institute vide letter No. _____ dated _____. He/She has proposed the name of Dr./Mr./Ms. _____ as his/her Guide.

Dr./Mr./Ms. _____ has _____ students registered under him/her.

Academic Section: _____

Signature: _____

Date: _____

Asstt. Registrar (Acad): _____

Ph.D Co-ordinator: _____

Director & Sr. Professor: _____



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APPLICATION FOR RENEWAL OF IDENTITY CARD FOR PH.D. PROGRAMME[Annexure-XXI]

The Director,
IIPS, Deonar,
Mumbai-400088.

Dear Sir,

This is to request you to kindly approve renewal of Identity Card for continuation of my Ph.D programme at the Institute. The details of my registration are as follows:

Name	
Email ID & Mobile Number	
Date of Joining	
Enrollment Number	
Current extension period	
Date of expiry of Id Card	

- Students are required to submit the application one month before the expiry of the ID card for renewal.

Signature of the Student: _____

Date: _____

FOR OFFICE USE

This is to certify that the Ms./Mr. _____ has joined Ph.D programme w.e.f. _____, and is continuing the course. He/She has paid the fees upto _____, and has submitted the progress report for the period from _____ to _____.

O.S.(Acad.) _____

Date: _____

Recommended/Not Recommended

Asstt. Registrar (Acad.) _____

Date: _____

Ph.D Co-ordinator _____

Director & Sr. Professor _____

Annexure II

Sr. No.	Existing	Proposed	Remarks
1	<p>The International Institute for Population Sciences (IIPS) offers the following research programmes in Population Studies and Biostatistics and Demography:</p> <p>i) M.Phil. in Population Studies/ Biostatistics & Demography</p> <p>ii) Integrated M.Phil. and Ph.D. in Population Studies / Biostatistics & Demography</p> <p>iii) Direct Ph.D. in Population Studies/ Biostatistics & Demography</p>	<p>1. Ph.D. in Population Studies / Biostatistics & Demography</p> <p>The International Institute for Population Sciences (IIPS) offers the following research programmes in Population Studies, and Biostatistics and Demography:</p> <p>i) Ph.D. in Population Studies</p> <p>ii) Ph.D. in Biostatistics & Demography</p> <p>iii) Part-time Ph.D. in Population Studies</p> <p>iv) Part-time Ph.D. in Biostatistics & Demography</p>	<p>MPhil programme removed from the syllabus from the Academic Year 2021-2022 due to discontinuation of MPhil programme as per NEP.</p>
2	<p>2.1. Eligibility criteria: Candidates having M.Phil. in Population Studies or Demography or Bio-Statistics & Epidemiology/Demography of a recognised university with at least B+ or 55% of aggregate marks in all subjects are eligible to apply. The upper age limit is 30 years for this programme. Marks and age are relaxable for candidates belonging to reserved categories and women as per GOI rules.</p>	<p>2.2. Eligibility criteria: Candidates having MPS in Population Studies/ M.A/M.Sc. in Population Studies/MSc in Biostatistics & Demography/ Master Degree in any discipline with atleast one paper/ one course/ one subject in Population Studies/ Demography/Biostatistics/ Health Statistics/MPhil in Population Studies/ Demography/Biostatistics & Demography/ from a recognised university with at least B+ or 55% of aggregate marks in all subjects are eligible to apply. The upper age limit is 30 years for this programme. Marks and age are relaxable for candidates belonging to reserved categories and women as per GOI rules.</p>	<p>Changes proposed due to discontinuation of MPhil programme as per NEP.</p>
3	<p>Ph.D students shall submit the half yearly progress report and appear before the Research Advisory Committee formulated at the Institute by the Director once in six months to</p>	<p>The Ph.D students on completion of six months will have to submit half yearly progress report to the Guide and Advisory Committee</p>	<p>In addition to the existing rule, Additional Rule proposed to be added to</p>

Report of the Committee on Proposed Pre-PhD Coursework

Director constituted a committee comprising of the following members to suggest the Pre-PhD coursework for the Institute's PhD program from the academic year 2021-22 onwards.

- Prof. T.V. Sekher, IIPS
- Prof. Surinder Jauwal, TISS Mumbai
- Prof. U.S. Mishra, CDS Trivandrum
- Prof. K. Narayanan, IIT Mumbai
- Prof. Aparajita Chattopadhyay, IIPS

The committee was asked to examine the following specific issues related to Pre-PhD coursework and suggest appropriate measures to strengthen the program:

- Structure of the coursework
- Duration of Coursework
- Syllabus of the coursework
- Grading system
- Methods of evaluation
- Any other related matters

As per existing admission norms at IIPS, mostly scholars join the PhD program after completing their MPhil. Degree. However, from this academic year (2021-22) onwards, MPhil program is discontinued. So many students immediately after their master's degree may join the PhD program. This coursework is designed keeping in view of these aspects into consideration. So, those joining the PhD program after the Master's courses need to undergo this course work.

This course work should be targeted at addressing the possible shortcoming in prospective doctoral scholars. They are mainly in terms of critical reading, developing research questions which are theoretically informed and empirically workable, and finally thinking beyond application of given methods. Critical reading will enable doing a literature review that will lead to raising pertinent questions either in terms of limitation and modification of methods, alternative approaches or inspection of a particular theoretical stance with the available information base etc. The course should have a strong component of informing on various theoretical perspectives of population research comprising of standard conceptualization of outcomes, behaviours, preferences etc. Further training on this component should delineate the difference between a review for bibliographical purpose and a directional one meant for

	make a presentation of the progress of his/her work for evaluation and further guidance.	Members in the month of January and July every year along with the semester fee receipt. A student whose joining date falls between July to December will submit progress report in the month of January and student whose joining date falls between January to June will submit progress report in the month of July.	streamline and processing the progress report twice in a year irrespective of the date of joining of each student.
4	Fellows are required to submit the contingency claim for each year and no claim will be considered after completion of fellowship period.	A Ph.D Student is required to submit the contingency claim along with all the necessary documents after completion of one year in the month of January and July irrespective of the date of joining. A student whose joining date falls between July to December will submit contingency claim in the month of January and student whose joining date falls between January to June will submit contingency claim in the month of July.	In addition to the existing rule, Additional Rule proposed to be added to streamline and processing the contingency claim twice in a year irrespective of the date of joining of each student.

addressing a certain position. To ensure students learning this component is based on activities associated with the course, like writing book reviews, reviewing articles on a particular problem of enquiry as well as preparing a script of reviewing a set of articles on a specific theme of enquiry.

The second most important part of the training should be on conceptualization and developing original framework of analysis. This part can be strengthened by demonstrating standard frameworks and its implied analysis plan. To execute this component, scholars need to present a range of frameworks and interpret them systematically to facilitate a thinking which will automatically prompt things in their mind to either modify the framework or extend it in some way or the other.

As regard understanding of research methods (both qualitative and quantitative) is concerned, there should be two types of execution. One familiarising with the existing methods of analysis beginning with descriptive to advanced methods with their specific purposes and limitations. Second component should be to illustrate application and significance of basic demographic methods like standardization, survival analysis, cohort/period analysis, synthetic methods and approaches etc. While these can be delivered in class room lectures, the challenge lies in making the scholars work on a nuanced application of these methods with a problem of enquiry and present the same among peers to discuss. Such exercise can be evaluated with assignments, class room presentations and preparation of papers.

The aim of the coursework is also to develop an in-depth knowledge of procedures followed in social and health research, be able to design and conduct an empirical/field study, to understand the heterogeneity of research methods, plan field research and its execution. Further, the course objective is to enhance the student's understanding of problems in philosophy of science and ethics, especially those that may arise in relation to health, development, and policy. The course objective is also to provide the student with extended possibilities to develop a scientific and ethical approach to research and developmental work.

After completing the coursework, the scholar is expected to be able to:

1. describe theories and concepts of philosophy of research
2. Identify, analyse and discuss scientific theory issues and ethical issues.
3. To plan field research and its implementation
4. to design and conduct an empirical/field survey,
5. to analyse data (both quantitative and qualitative) and its interpretations
6. To write a research report and publication of papers
7. To develop policy document based on important study findings

Suggested Pre-PhD Coursework:

Duration: 8 months, 2 Semesters- (4 months each)

Credits: 10 credits in each Semester, Total 20 Credits

Course Content:

Semester 1:

- 1) Research methodology Paper 1- Credits 4
- 2) Research methodology Paper 2- Credits 4
- 3) Preparation of a Review based Research Paper- Credits 2

Semester 2:

- 4) Optional papers (select 1 out of 4)- credits 4
- 5) Preparation of a Secondary data-based Research paper- Credits 2
- 6) Preparation and presentation of Pre-Proposal (Concept Note) for PhD work- Credits 4

Optional Papers: Scholars may choose one out of the four papers

- a) Fertility and reproductive rights
- b) Public health and mortality
- c) Migration, urbanization and development
- d) Population, social welfare policies and development

Requirements of Pre-PhD coursework:

1. Pre-proposal (Concept Note) of PhD work to be submitted to Academic Section by the end of Pre-PhD coursework (eight months).
2. Scholars need to publish at least a research paper in a journal by end of the second year for further extension of PhD fellowship. It should be either the secondary data-based paper or the Review based Paper prepared during the Pre-PhD course work.
3. Minimum grade to be achieved is B + in the Pre-PhD course work to continue in the PhD program. Re-examination will be permitted for any paper if the scholar fails to obtain the required grade.
4. Papers 1,2 and 4 of the coursework are assessed based on assignments, class room presentations and written examination.
5. The examinations will be conducted after the classes and assignments are completed in each semester.
6. Scholars who successfully complete the Pre-PhD course work will only be allowed to register for the PhD Programme. It would be termed as confirmation of PhD admission.

7. For 2021-22 batch and subsequent years, M Phil holders in Population Studies/ Demography/ Biostatistics are exempted from undergoing the Pre-PhD coursework.
8. Those selected under the Part-time PhD program need to undergo the Pre-PhD course work compulsorily.
9. Number of contact hours in 2nd semester is less than 1st Semester, so that students get time for reading which will be beneficial for PhD topic formulation. Students will have fortnightly meetings with faculty in the 1st Semester to discuss prospective thesis topic. By the end of 1st Semester, Academic Section will allot the Guide and advisory committee members to the scholars.
10. Pre-Proposal will be prepared in consultation with PhD Guide and advisory committee members.
11. Once the Pre-Proposal is ready by the end of the coursework, scholars are in a position to prepare the detailed PhD proposal and present it in a faculty-student seminar within the next four months. In other words, scholars should be ready with their PhD proposal within one year after joining the program.
12. Though not related with coursework, the committee felt that, in order to attract better talent to the PhD programme, the eligibility criteria for admission need to be modified and broadened. Presently those with a Master's or M Phil. degree in Population Studies/ Demography / Bio-statistics are only allowed to apply. This should be open to candidates from other subjects as well.

Review based Paper- Credits 2

Scholars should select a topic of their research interest. They may identify at least 15 published articles and review them critically to prepare the review based research paper for publication.

Course Description/Explanation: Students will write review of selected papers published in peer reviewed journals to critically assess the quality in terms of data, methods, analysis, findings, presentations and conclusions. This work is designed to broaden students' perspectives and to provide them with an opportunity for the integration of course concepts. Emphasis will be placed on methods of interpretation, writing, and critical thinking related to topical issues.

Student Learning Outcomes: Think critically about important issues, Problem-solve solutions to relevant problems, enhance communication skills and research/writing acumen.

The purpose of this course is to assist students in preparing and completing their review based paper and publish it in a journal by end of second year.

When preparing the review based paper, scholars may critically think through each task. Determine the problem/issue they are trying to solve. Develop a hypothesis and/or possible solution to the problem/issue. Brainstorm other possible solutions. Think about the pros and cons of the problem/issue. Gather information on the problem/issue that may support or contradict the existing position. Evaluate the facts objectively. Determine a reasonable conclusion based on all of the facts. Make sure the facts (and the reporting of the facts) are accurate. Scholars will be graded on how well they are able to perform these tasks by a committee of faculty.

Secondary data-based paper- Credits 2

Scholars need to be familiar with available secondary data sets in demography and health domains. They need to select a topic of their research interest and identify one or two issues that can be probed using the secondary data. The selected questions/ issues can be related to their future PhD thesis work. Using the latest available data, scholars need to prepare a research paper for publication.

This exercise will help them identify researchable themes, identifying latest data sets, analyzing them, presenting and interpreting the analysis and findings, identifying the major outcomes and their policy implications. This exercise will enable them how to prepare/draft a research paper for publication and how best it can be presented within the limited space (usually most journals limit the length of their articles to about 6000 words, including tables and references). This exercise also familiarizes the scholars on what are the requirements for publishing a research paper in a peer reviewed journal.

The paper will be evaluated by a faculty committee and necessary suggestions will be provided to the scholars for further improving the contents, arguments, and presentation of the paper to bring it to the publishable standard. Once it is ready, the scholars can identify a suitable journal and send it for the consideration of publication.

Preparation and presentation of Pre-proposal (concept note)- Credits 4

Before the preparation of the PhD research proposal, the scholars need to submit a Pre-proposal (Concept Note) that will broadly outline their area of research interest, research gaps and questions, objectives, methodology and data sources, etc. This Concept Note will be reviewed by a Faculty Committee and provides suggestions to improve its quality, methods and usefulness. This committee will also examine whether the suggested topic is relevant and good enough in the present context for a PhD work, and possible enough to be implemented within the stipulated time available for research scholars. This feedback will help the scholars to conceptualize the topic of research and then work on the detailed research proposal.

The detailed PhD proposal will be later presented in a faculty-student seminar for wider discussion. Three external experts will also review the PhD proposal and suggest necessary

modifications. Based on the discussions in the seminar and feedback from the external experts, scholars will revise the research proposal in consultation with their supervisor and doctoral advisory committee members. This final proposal will be submitted to the Academic Section, preferably within one year after joining the programme.

Course Contents details:

Research methodology 1- Credits 4 (60 lectures)

RM 1: ADVANCED RESEARCH METHODOLOGY

OBJECTIVES:

The aim of introducing this paper is to develop skills in different types of research methods applicable in the field of Population Studies/Bio-statistics. The main focus of this paper is to train the students with the nuance of research. The paper covering various types of research design, sampling techniques, data collection techniques and data analysis using various packages in the field of Population Studies and Bio-statistics. This paper is also intended to give an overview of statistical models commonly used in causal analyses of non-experimental data in the social and biomedical sciences. The strategy would be to simplify the treatment of statistical inference and to focus primarily on how to specify and interpret models in the context of testing causal relationships. This course will furthermore cover the orientation of statistical packages of data analysis. Apart from this, students will be taken for field trips to Hospital/Pharmaceutical companies to understand the clinical trials.

A. RESEARCH METHODOLOGY: AN INTRODUCTION

1. Types of research and its significance
2. Research Methods vs Research Methodology
3. Defining the Research Problem

B. RESEARCH DESIGN

1. Features of Research Design
2. Review of Different Research Design
3. Basic Principles of Research Design

C. SAMPLING DESIGN

1. Components of sample size α , β , prevalence, variance and difference to be detected, Importance of power, what determines power, concept of power index, estimation oriented studies-mean, proportion, comparison oriented studies, Studies involving two means, proportions, Sample size determination in case of cohort and case control studies, sample size determination in case of time to failure data, Sample-size calculations in multilevel studies

2. Review of basic sampling design: simple random sampling, stratified sampling and systematic sampling
3. Multistage sampling, probability proportion to size sampling, Estimation of mean, proportion and variance, Estimation of sample weights, design weights, weights for unit non-response, Post stratification, Sampling from imperfect frames, Sampling and Non-sampling errors
4. Sampling of large scale demographic surveys (Design, Sample Size, and Content): National Family Health Survey (NFHS), National Sample Survey (NSS) and Sample Registration System (SRS) etc.

D. MEASUREMENT AND SCALING TECHNIQUES

1. Measurement scales
2. Techniques of developing measurement tools
3. Scale Classification bases
4. Scale construction techniques

E. METHODS OF DATA COLLECTION

1. Quantitative data collection techniques
Preparation and presentation of questionnaires
2. Qualitative data collection techniques
Guidelines for Free listing, pile sorting, PGDs, In-depth interviews, Observation techniques
Preparation and presentation
Other techniques of data collection – Vignettes, mystery client technique, projective techniques, Most significant change method
3. Mix methods in data collection

F. DATA MANAGEMENT

1. CS Pro- programme for data collection/data entry
2. Data cleaning
3. Data editing
4. Orientation to EPI info (Biostatistics and Demography)
5. Orientation of SAS (Population Studies)
6. Big Data Analysis orientation

G. QUANTITATIVE DATA ANALYSIS SKILLS

1. Simple & multiple regression, Statistical inference in the multiple regression model, Alternative functional forms for regression equations, Interpretation of the regression coefficients, Concept of standardized regression coefficients, Path coefficients, Multiple regression analysis with dummy variables, Interactions involving dummy variables, Adjusted R-squared, Prediction and Residual Analysis, Presentation of the results in Multiple Classification Analysis (MCA) format
2. Simultaneous equations models, simultaneity bias in OLS, identifying and estimating a structural equation, Instrumental variable method and two stage least squares

3. Regression with binary dependent variable, the logit and probit models, Presentation of the results in Multiple Classification Analysis (MCA) format, Tobit model, Multinomial Logit Regression: The basic form of the multinomial logit model, presentation of results, interpretation of coefficients
4. Multilevel analysis and its applications, random intercept, random slopes, intra-class correlation coefficient, Assumptions in multilevel analysis, Random regression coefficients versus fixed regression coefficients, Multilevel analysis in longitudinal studies
5. Introduction to evaluation design, types of evaluation designs, Bias and error in measurement of treatment effect, Allocation of study units: randomization & matching, Difference-in-differences (DID) method, propensity score matching, Basic concept of missing data analysis

II. Applied Statistical Methods (only for those with Biostatistics background)

Structural Equation Modelling
 Econometric Methods for Policy Analysis
 Multilevel Analysis
 Bayesian Analysis including brief about small area estimation
 Applications in Stata and R software

I. FIELD TRIP AND TRAINING

1. Hospital/Pharmaceutical companies to see the clinical trials (Bio-statistics and Demography)
2. Training of anthropometric and other measurements

EVALUATION: Written examination and assignments, like development of tools, and statistical analysis by software. The weightage for examination and assignments will be 60: 40 basis.

READING LIST:

1. C.R. Kothari (2004): *Research Methodology -Methods and Techniques*, New Age International, New Delhi.
2. Dillon, W. R. and Goldstein, M., (1984): *Multivariate Analysis*, John Willey and Sons, New York.
3. Greene Huitcheson and Nick Sofroniou, (1999): *The Multivariate for Social Scientist*, SAGE Publications.
4. Gujarati, D.N and Sangeetha (2007) *Basic Econometrics* (Fourth edition), Tata McGraw Hill, New Delhi
5. Jones, Andrew (2007). *Applied Econometrics for Health Economists*, Radcliffe Publishing Ltd, United Kingdom.
6. Jos W. R. Twisk (2006) "Applied Multilevel Analysis" Cambridge University Press, The Edinburgh Building, Cambridge CB2 8RU, UK
7. J M Wooldridge (2009) "Introductory econometrics A Modern Approach". CENGAGE Learning.

8. Kalton, Graham, (1983): *Introduction to Survey Sampling*, Sage Publications, Beverly Hills, London.
9. Kish, L. (1995): *Survey Sampling*, John Wiley and Sons, INC, New York.
10. Maddala, G.S (1984). *Introduction to Econometrics*, Macmillan Publishing Company, New York.
11. Murthy, M.N. (1997): *Sampling Theory, and Methods*, Statistical Publishing Society, Calcutta, India.
12. Retherford, Robert D. and Choe, Minja Kim., (1993): *Statistical Models for Causal Analysis*, John Wiley and Sons, Inc, New York.
13. Roy, T.K., R Acharya and A K Roy (2016) "Statistical Survey Design and Evaluating Impact", Cambridge University Press,
14. Roy, T.K. and Arvind Pandey (2008). *National Family Health Survey in India: Survey Design and Related Issues*, Demography India, Vol. 37 (Supplement) pp. 13-40. For survey design, student should also refer the other articles published in the Demography India, Vol. 37 (Supplement) in the year 2008.
15. Snijders, Tom A.B. and Bosker, Roel J., (1999): *Multilevel analysis: An introduction to Basic and Advanced Multilevel Modeling*, Sage Publications.
16. Bird, A. (2006). *Philosophy of Sciences*. Routledge.

Research methodology 2: Credits 4 (60 lectures)

RM-2: QUALITATIVE RESEARCH, SCIENTIFIC WRITING AND ETHICS

OBJECTIVES:

This course would acquaint the scholars with basic processes of qualitative research and would enable them to pursue research in a systematic and critical way. Given the interdisciplinary character of the demographic inquiry, the focus of the course would be on to deliberate upon how to expand the scope of research, that would provide them with some critical perspectives on the broad paradigms of socio-demographic research. The objectives of this paper is to familiarize the scholars with various qualitative research methods and their practical applications for research purposes. This will prepare the students for designing and conducting independent research and equip them with techniques of qualitative data analysis and interpretation. Another important aspect is to teach the scholars on issues related to ethical issues involved in conducting field based research and publications of their research work. It has also been observed that a majority of students enrolled in PhD programme are not adequately trained on scientific and academic writing. This paper will help the scholars to learn the ways of scientific writing in an acceptable academic standard.

A. Philosophy of Research

Science and Scientific Method - Naïve science, Pseudo-science, True science
Causation and Research Design
- Law, Theory, and Model

- Overview on Main Assumptions and Arguments of Selected Social Theories (functionalism, conflict theory, symbolic interactionism, system theory, feminist theories, change theories)

B. Theory in Qualitative Research

1. Using the existing literature
2. Theories underlying the qualitative research
3. Approaches to qualitative research
4. Texts as data in qualitative research

C. Designing Qualitative Research

1. The qualitative research process
2. Research questions
3. Entering the field
4. Interviews, focus groups, key informants
5. Using narrative data
6. Collecting data beyond talk.

D. Writing qualitative research

1. Using documents as data
2. Qualitative research today
3. Making qualitative research relevant

E. ETHICS OF SCIENTIFIC RESEARCH

1. Introduction to Ethics in research
2. Ethical issues in design cycle
3. Ethical issues in data collection and willingness to pay in surveys
4. Ethical issues in analytic cycle
5. Ethical issues in writing report/scientific paper

F. ETHICS IN RESEARCH PUBLICATION

1. Philosophy and Ethics (Theory)
2. Scientific Conduct (Theory)
3. Publication Ethics (Theory)
4. Open Access Publication (Practical & Assignment)
5. Publication Misconduct (Practical & Assignment)
6. Database and Research Metrics (Practical & Assignment)

G. QUALITATIVE DATA ANALYSIS SKILLS

1. Data preparation
2. Developing codes
3. Making codebook and its process
4. Free listing and Pile sorting analysis using ANTHROPAK

5. In-depth Interviews, PODs data analysis by N-Vivo/ATLAS-TI
6. Group work - hands on data collection, data analysis and presentation

H. SCIENTIFIC WRITING

1. Layout of research proposal and dissertation
2. Techniques of interpretation
3. Preparation of policy briefs
4. Preparation of research papers
5. Preparation of posters for conference
6. Preparation of concept note

I. FIELD VISITS

1. Visit to the field sites where NGOs are conducting action/ intervention research.
2. Conducting Key Informant Interviews and Focus Group Discussions at field level and writing up.

EVALUATION: Written examinations and assignments. The assignment includes a review of a recently published book in the area of research interest of the scholar. Book review will be prepared and presented in the group/ class room. Based on the feedback from faculty and others, this will be revised and sent for publication in journals/ newspapers. The weightage for examination and assignments will be 60: 40 basis.

Reading List:

Gastel, Barbara and Robert A. Day. *How to write and publish a scientific paper.*

Turabian, Kate L. *A manual for writers of research papers, theses and dissertation* Web reference: <http://owl.english.purdue.edu>

Hollis, M. (1994) *Philosophy of Social Science: An Introduction*. Cambridge, Cambridge University Press

Booth, W. C., Colomb, G. G., Colomb, and J. M., & Williams, J. M. (2003). *The Craft of Research*. University of Chicago press.

Hennink, M., Hutter, I. and Bailey, A. (2011). *Qualitative Research Methods*, Sage Publications, London.

Schenshui, S.I., J.J. Schenshui and M.D. LeCompte (1999), *Essential Ethnographic Methods*, Altamira Press, New York.

MacIntyre, A. (1967) *A Short History of Ethics*. London.

P. Chaddah (2018). *Ethics in Competitive Research: Do not get scooped; do not get plagiarized*, ISBN:978-9387480865

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.

Reanik, 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.

Indian National Science Academy (INSA), *Ethics in Science Education, Research and Government* (2019), ISBN:978-81-939482-1-7.

http://www.inamindia.res.in/pdf/Ethics_book.pdf

Flick, Uwe (2014). *An Introduction to Qualitative Research*, SAGE, New Delhi

Whyte, William Foote. (2001). *Street corner society*. In Down to earth sociology: introductory readings. The Free Press.

Srinivas, M. N., A. M. Shah, and E. A. Ramaswamy. (1979). *The Fieldworker and the field : problems and challenges in sociological investigation*. Delhi: Oxford University Press.

Mukherjee, R. And P. N. Mukherjee (2000). *Methodology in social research: dilemmas and perspectives*. Sage Publication.

Bryman, Alan (2012). *Social Research Methods*, Oxford University Press

Sayer, Andrew. (1984). *Method in Social Science: A Realist Approach*, London: Hutchinson

Creswell, J. (2012). *Research design: Qualitative, quantitative, and mixed methods approaches* (4th ed.) Thousand Oaks, CA: Sage

Denzin, N, and Lincoln, Y. (2011). *The SAGE handbook of qualitative research* (4th ed.). Thousand Oaks, CA: Sage

Lincoln, Y.S. & Guba, E.G. (1985). *Naturalistic Inquiry*. Newbury Park, CA: Sage.

Lee, T. W. (1999) *Using Qualitative Methods in Organization Research*. London: Sage.

Marshall, C. & Rossman, G. B.(2006). *Designing qualitative research* (4th ed.) Thousand Oaks, CA: Sage.

Miles, M.B., Huberman, A.M. & Saldana, J.(2014). *Qualitative data analysis: A methods sourcebook* – Third edition. Thousand Oaks, CA: Sage.

Patton M. Q.(2002). *Qualitative Research and Methods Evaluation*, Newbury Park: Sage.

Silverman, D.(2013) *Doing Qualitative Research*, London: Sage

Berg, B. L. & Lune, H. *Qualitative Research Methods for the Social Sciences*, 8th edition, Boston: Pearson, Allyn & Bacon. 201

OPTIONAL PAPERS (select 1 out of 4)- credits 4

The committee also looked into the five optional papers currently offered to scholars in the Pre-PhD / MPhil. courses. After reviewing the contents of each paper, it was suggested to retain the first three papers as it is –

1. Fertility and reproductive rights
2. Public health and mortality
3. Migration, urbanization and development

After looking into the syllabus of the optional paper – social welfare policies and development- it was decided to combine this paper with another existing paper- Population and development- considering the linkages of development with policies. It was suggested to title this paper as-

4. Population, social welfare policies and development.

So in the Pre-PhD course, scholars will be offered four optional papers dealing with four major domains of Population Studies/ Demography, and they can choose any one of their choice. The detailed syllabus and reading list of four optional papers are given below.

OPTIONAL PAPERS

A	FERTILITY AND REPRODUCTIVE RIGHTS	60 Hours
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Objectives: The purpose of this course is to provide advance knowledge in the area of fertility and reproductive rights. Students will get acquainted with new and advanced method of fertility analysis. An emphasis is also given on existing theories of fertility and their critical review. In the era of modernization, to understand nuptiality dynamics and issues regarding reproductive rights become essentials, especially in view of causes and consequences emerged from them in a society. Therefore, marriage and reproductive rights are also given due importance in this course.

1. **Review of Basic Measures of Fertility and Reproduction:**
Definition of natural fertility, fertility, fecundity, fecundability; Basic measures of fertility and reproduction; Cohort and period measures of fertility; Sources of fertility data; Nuptiality, Nuptiality Table and Measurements; Timings of Events-Age at first marriage, first birth, last birth, birth intervals, menarche, menopause, sterilization, Mean age childbearing; Tempo and quantum effects in fertility; Parity and birth order-distributions with Indian examples, Parity progression ratios (PPRs); Abortion (legal/illegal/safe/unsafe) and Measurement of Abortions; Birth and pregnancy histories; Family Planning and Unmet Needs.
2. **Estimation of Fertility and Analysis:**
Coale's fertility indices; Coale's-Trussel model of natural fertility; SMAM, P/F Method to estimate fertility; Decomposition of fertility; Age-pattern of Fertility, Estimating fertility through PPRs, Calculation of Bongaarts' Indices, Role's method of estimating fertility, Reverse survival

method of estimating fertility; Estimating fertility from Own-children data; Coale's (1981) Robust Procedure to Estimate fertility from single census; Estimating of fertility from CEB data using Gompertz relational model; Estimating fertility from historical data; Estimating sex ratio at birth, birth intervals, Probit analysis to estimate age of menopause; Long term fertility projections: Intergenerational Rationale and time series models

3. **Using Secondary Data/Official Statistics for Small Area Planning:**
Estimating number of births using different fertility indicators at district level, Total fertility rate from birth order statistics at district level, Problems of estimating fertility from HMIS data, Projection of fertility rate at smaller level, calculating different fertility indicators from vital registration and assessing its quality, Calculation of pregnancy, fertility rate and abortion rate from survey data, Estimating wanted and unwanted fertility rate from survey data, Small area estimation techniques to derive basic fertility indicators, estimation of duration of breastfeeding/postpartum insusceptibility from large scale-survey, Estimating infertility level from survey and census data.
4. **Review of Theories and New Perspectives:**
Overview of Socioeconomic Theories and Frameworks of Fertility: Demographic Transition (FDT), Demographic Equilibrium and Demographic Convergence; Second Demographic Transition (SDT) and Below Replacement Level Fertility (BRLF) and Lowest low fertility (LLF); Causes of below replacement level fertility in developed and developing countries – country specific case studies; social, health and economic consequences; Population ageing and low fertility linkage. Health and Development Contributions of Fertility Decline in Developing Countries.
5. **Emerging Issues Related to Fertility Research:**
Determinants of fertility and lowest low fertility in developed and developing countries: postponement of marriage and child bearing, rise in life expectancy, urbanization and densification, higher education and women employment, child care options, individualism, self-interest and feminism. Recent Trends and Patterns in Fertility in developed and developing countries; Future of fertility in the Global Context and the Indian context; Pro-natalist Policies and Prospects for Reversal of Fertility Decline; Fertility postponement and Recuperation. Second Demographic Transition (SDT) in India; Low and high Fertility Context and Demographic Risk Sharing in India.

Levels and Trends in Nuptiality: Impact of declining sex ratio at birth on marriage market. Concepts and empirical patterns relating to fertility preferences-wanted/unwanted fertility, planned and unplanned births and timing of birth; Stopping Rule Behaviour (SRB) and implications for sex ratio patterns; Changing sexual, marriage and child bearing patterns among young adults. No marriage, no child and one child hypotheses; Fertility variations in low fertility context and its ramifications.
6. **Reproductive and Health Rights:**
Reproductive rights and international consensus and convictions; Definition of Reproductive and Sexual Rights; Right to choose partner; Protection from entering into Coercive Marital Union and reproduction; Right to have children: time, space and the number; Reproductive Decisions (Free from discrimination, Coercion and violence); Right to Safe Abortion, Right to Privacy; Freedom of movement, Overlap of Human, civil and reproductive rights; Right to correct sexual and reproductive health information

Reading List (Essential)

1. Arukiasamy P. (2009). "Fertility Decline in India: Contribution by Women without Education, *Economic and Political Weekly*, Vol. XLIV no 30: 55-64.

2. Bongaarts, J and Potter, R. (1983). *Fertility, Biology and Behavior: An Analysis of the Proximate Determinants*. Academic Press, New York.
3. Bulatao, A. and J. B. Casterline (eds.) 2001. "Global Fertility Transition" Supplement to Population and Development Review, Population Council, New York.
4. Dorius(2008).Global Demographic Convergence? A Reconsideration of Intercountry Inequality in Fertility. *Population and Development Review*, 34(3): 519-539
5. Goldstein, J.R., T. Sobotka and A. Jasilioniene(2009). The End of Lowest Low Fertility? *Population and Development Review*, 35 (4): 663-700.
6. John Bryant(2007). Theories of Fertility Decline and Evidence from Development Indicators. *Population and Development Review*, 33(1): 101-128.
7. Preston, Samuel H., Heuveline, Patrick, and Guillot, Michel (2001). *Demography: Measuring and Modeling Population Processes*. Oxford: Blackwell Publishers.
8. Ron Lesthaeghe(2010). The unfolding Story of Second Demographic Transition *Population Development Review*, 36 (2): 211-252.
9. Siegel, Jacob S., and David A. Swanson (eds.), (2004). *The Methods and Materials of Demography* (Second edition). San Diego: Elsevier Academic Press.
10. United Nations (1973). *Determinants and Consequences of Population Trends*. Vol. 1, pages 96-104, UN, New York.
11. United Nations (1999). *Below Replacement Fertility*, Population Bulletin of the UN, Special Issue Nos. 40/41, Department of Economic and Social Affairs, UN, New York.
12. Wilson, C.(2001). On the Scale of Global Demographic Convergence 1950-2000, *Population and Development Review*, 27: 155-171.

Reading List (Suggested)

1. Bogus, Donald J., Eduardo E. Arriaga, and Douglas L. Anderson, eds. (publication editor George W. Ramsey) (1993) *Readings in Population Research Methodology*. Chicago: United Nations Population Fund. Volume 3: Fertility Research, (All three chapters but selected pages).
2. Palmore, James A. and Gardner, Robert W. (1983) *Measuring Mortality, Fertility and Natural Increase: a Self-Teaching Guide to Elementary Measures*. Honolulu: East-West Population Institute, East-West Center.
3. Pollard, A.H., Yusuf, Farhat and Pollard, G.N. (1990) *Demographic Techniques* (third edition). Sydney: Pergamon Press.
4. Rowland, Donald T. (2006). *Demographic Methods and Concepts*. New York: Oxford University Press.

B	PUBLIC HEALTH AND MORTALITY	60 Hours
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Objectives: The purpose of the course is to familiarize the students with public health issues and the basic measures of health and their applications. There will be a special emphasis on Indian health systems and the policies implemented over the years. Care is taken to avoid the issues already covered in the compulsory paper titled as "Morbidity, Mortality and Public Health" (both in MPS and MA/MSc courses). Practical sessions must include fieldwork such as visit to health care facility and interaction with health administrators/personnel. The impact of Covid-19, both on the health systems and people, need attention.

Course outline:

1. Concepts and definitions:
Health, morbidity, disease burden, disability, prevalence and incidence, etc.

2. Sources of health data/information: Civil Registration, Sample Registration System (SRS), Census and other large scale surveys, completeness and quality of data.
3. Applications of health measures in planning, monitoring and evaluation; CDR, IMR or ASDR for estimating immunization needs, clustering, patterning of death, etc. Advanced methods of estimating/assessing mortality, and Construction and applications of life tables (multiple decrement).
4. Age pattern of mortality: focus on adult mortality and morbidity/disease pattern
5. Avoidable mortality
6. Measures of health and burden of disease
Concepts of health expectancy, DALY, survivorship curve; epidemiological estimates for diseases (Years of Lost due to Disability- YLD),
Introduction and use of DISMOD - II software (WHO).
7. Culture, community and disease (anthropological epidemiology):
Traditional health providers (primitive/tribal/ancient) and practices, and
Cultural and socio-religious interpretation/meaning associated with diseases, and health-seeking behaviours.
8. Indian Health System: Structure, functioning, and organization,
Structure: Centre (MoHFW, Departments of Health, Family Welfare, AYUSH) and State
Facility: Type, structure, functioning,
Public (Civil, Military) versus Private (Trust, Society, NGO),
Hierarchy: State (Hospital/Medical College), District Hospital, FRU/CHC, PHC, Health Sub-Centre,
Municipal Hospital, Urban Health Post/Centre, Family Welfare Centre, Maternity Homes,
Hospice/Old age Homes, Super-speciality Hospitals/ Institutions,
Health Management Information System (HMIS): Data, mapping, surveillance mechanism
Health Insurance policies,
Public-private partnership (PPP) in health care: Different models and experiences, and
Decentralization of health services in India
9. Health policies and programmes:
Critical review of major international policies and declarations (UN declarations, ICPD-1994, etc.),
Indian health policies: NHP, NPP, other health programmes, etc., and
Communitization of health programmes in India: NRIHM (2005-12) with focus on ASHA, ANM, RKS, and role of Panchayats (PRJ).

Suggested readings

1. Das Gupta, M and M. Rani (2004), *India's Public Health System: How well does it function at the National level*, Policy Research Working Paper No. 3447, World Bank, Washington, D.C.
2. Government of India (2002), *National Health Policy*, Ministry of Health and Family Welfare, New Delhi.
3. Government of India (2005), *National Rural Health Mission – Framework for Implementation 2005-2012*, Ministry of Health and Family Welfare, New Delhi.
4. Mathers, CD, T. Vos, AD Lopez, J. Salomon, and M. Ezzati (eds) (2001). *National Burden of Disease Studies: A Practical Guide*, Global Program on Evidence for Health Policy, Geneva: World Health Organization.
5. Mills, A, JP Vaughan, DL Smith and I Tabibzadeh (eds) (1993). *Health System Decentralization: Concepts, issues and country experience*, WHO, Geneva.
6. Murray, CJL, and AD Lopez (Eds: 1996). *The Global Burden of Disease: A Comprehensive Assessment of Mortality and Disability from Diseases, Injuries and Risk Factors in 1990 and Projected to 2020*. Global Burden of Disease and Injury Series, Vol. 1. Cambridge: Harvard University Press.

7. **Peter, D.H., AS Yazbeck, RR Sharma, GNV Ramana, LH Pritchett and AWagstaff (2000).** *Better Health System for India's Poor: Findings, analysis and options*, World Bank, Washington, D.C.
8. **VHAI (1997).** *Report of the Independent Commission on Health in India*, VHAI, New Delhi.
9. **World Bank (2003).** *World Development Report: Making services work for poor people*, Oxford University Press, Washington, D.C.
10. **World Health Organization (2000).** *World Health Report 2000. Health systems: Improving Performance*. Geneva, World Health Organization.

C	MIGRATION, URBANIZATION AND DEVELOPMENT	60 Hours
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Objectives: The rationale of this course is to advance the understanding on the issues on migration and urbanisation already studied by students at the MA/M.Sc / MPS programmes. The course would equip students the recent theoretical and empirical developments in the field of migration and urbanisation. The methods of the measurement of migration and urban processes would be emphasized along with advancing an understanding of related indicators. At the end of the course, students would be able to critically examine the policies and programmes related to migration and urban policies. This course is broadly organised under two heads- namely dealing with migration and urbanisation.

1. MIGRATION

A. Process of Migration:

1. Changing perspectives on migration in the context of globalization;
2. Demographic diversity and Migration: applications of Lee's theory, Zipf's gravity model, Stouffer 's opportunities and intervening opportunities model, Roger's model of migration;
3. Demographic transition and mobility transition- the contribution of Zelinski;
4. Wapert decision making model of migration; New economics of migration and probability models of migration;
5. Mobility field theory to explain the decision making process and its application.

B. Consequences of migration:

1. Applications and modifications in Todaro's model of wage differentials in the context of inequalities in development in developed and developing countries;
2. Effects of migration on fertility and family Planning;
3. Effect of migration on mortality and health;
4. Migration, development, displacement and social conflict;
5. Migration, return migration and remittances;
6. Women and migration- a changing perspectives focusing on labour migration and trafficking.

C. International Migration:

1. A critical appraisal of theories of international migration;
2. Emigration from India: Patterns, Magnitude, Composition, Diasporas and Remittances;
3. Immigrants in India: Changing patterns, and profiles including refugee migration;
4. Globalization and Migration: Some pressing contradictions.

2. URBANIZATION

A. Theoretical and Conceptual Issues (10 lectures)

1. Historical evolution of urbanisation; Contribution of Castells, David Harvey and Kingsley Davis. Urbanism as a way of life (Louis Wirth);

2. Relationship between urbanisation and development- Agricultural development and urbanisation; urbanisation and industrialisation linkages;
3. Urbanisation and social change;
4. Urbanisation as a demographic process;
5. Defining urban- a cross-country comparison; urban and rural relationship; Urban hierarchy; Definitions of slum and slum demography;

B. Pattern of Urbanisation (5 lectures)

1. World pattern of urbanisation; Pattern of urbanisation in India;
2. Components of urban growth; Mega cities and urbanisation;
3. Pre-colonial, Colonial and post-colonial phases of urbanisation.
4. Modern and post-modern cities and their problems;

C. Urbanisation, Health and Environment (5 lectures)

1. Urbanisation, land use change and housing market;
2. Urban environment- air pollution; water pollution; solid waste management;
3. Urbanisation, slums and quality of life
4. Urbanisation and health; health care delivery in urban areas
5. Urban disasters- mitigation and coping strategies

D. Urban policy, Urban Planning and Programmes (5 lectures)

1. Urban policy and programmes in five-years plans
2. Jawaharlal Nehru Urban Renewal Mission
3. Urban reforms and urban governance
4. Urban planning and city development strategies

Readings List

1. Clark, David (1996). *Urban World/Global City*, Routledge, London.
2. Cohen, Robin (1996). *Theories of Migration*, Edward Elgar, Cheltenham.
3. Harvey, David (1973). *Social Justice and City*, Edward Arnold and The Johns Hopkins University Press, Baltimore.
4. Khadarria, B. (2010). *India Migration Report 2009: Past, Present and Future Outlook*, Cambridge University Press, New Delhi
5. Louis Wirth (1938). Urbanism as a Way of Life, *The American Journal of Sociology*, Vol. 44, No. 1, (Jul., 1938), pp. 1-24.
6. McGee, T.G. (1971). *Urbanisation Process in the Third World*, Bell, London
7. Manuel Castells (1977). *The Urban Question*, MIT Press, Cambridge.
8. Oberai, A.S. and Singh, H.K.M. (1983) *Causes and Consequences of Internal Migration: A Study in the Indian Punjab*, Oxford University Press Delhi.
9. Samuel, J. (1995). *Life cycle and Female Migration: A Study of Pattern and Causes*, B R Publishing Corporation, New Delhi.
10. Soja, Edward (2000). *Postmetropolis: Critical Studies of Cities and Regions*, Basil Blackwell, Oxford.
11. Steven Vertovec (2010). *Migration: Critical Concepts in Social Sciences*, Vol.1, Routledge, Abingdon.
12. United Nations (2010). *World Urbanisation Prospects: The 2009 Revision*, Population Division, United Nations, New York.

D	POPULATION, SOCIAL WELFARE POLICIES AND DEVELOPMENT	60 Hours
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Objectives: The objective of this course is provide detailed understanding of the theories and issues, on poverty, inequality, regional and social development and on food and nutritional security. The course also lays emphasis on sustainable development, innovations for sustainable development, developmental policies and programmes with special reference to India and on the global perspective of development policies. Further, the purpose of the course is to familiarize the students with the basic issues related to development and social welfare policies implemented over the years. The course will encourage the students to undertake research pertaining to health systems, policies, and social and welfare aspects. Care has been taken not include the aspects which are already covered under the compulsory papers at Masters level on "population policies and programmes, and population and development". Apart from class room lectures, assignments, case studies, lab exercises and debates are part of this paper. The class room discussions, readings, writing assignments and exams are designed to encourage the students to develop tools for understanding social welfare measures and policies which are closely linked with developmental issues in Indian context.

I. Review of Concepts, Theories and Issues

1. Review of Concepts and Development Measures
2. Theories with Emphasis on Growth Model Theories
3. Contemporary issues related to population and development – Demographic Dividend, Economics of Ageing, Economics of Health care, Social and Health Issues.

II. Poverty, Inequality and Regional Development

1. Concept and Measurement of poverty, Strengths and limitations of Different Approaches, Multi-dimensional Assessment of Poverty
2. Measures of Inequality – Strengths and Limitations, Issues Related to Inequality and Equity: Social Economic and Health Inequalities.
3. Concepts and issues related to Social Exclusion
4. Regional development: Regional structure of underdevelopment in colonial and present India, regional disparities in developmental indices, Regional development Theories and (Spatial Organization, Polarized development, development from below), regional planning in India, regional social movements in India.
5. Micro Finance: Terms and Concepts of Microfinance. Microfinance as a Tool for Development. Evolution and character of Microfinance in India, Some Innovative and Creative Microfinance Models, Role of subsidies in microfinance, Case studies from Andhra Pradesh Microfinance Experiment, Role of Self Help Groups (SHG), Bangladesh Grameen Experiment, Financial Expansion.
6. Food and Nutritional Security – defining food security and hunger, evidence based assessment of food security and hunger, trends and prospects in nutritional security.

III. Population and Sustainable Development

1. Conceptual and Theoretical issues of Sustainable development: Importance of Studying Sustainable development; Meaning, Concepts and Definitions, context and issues; Inter-linkages between ecology and development; Conventional perspectives on development; Critique of Conventional Development perspectives; Critiques of sustainable development perspectives; Biophysical limits to growth: Malthus, Ricardo, Ehrlich-Commoner model, K. Boulding, Nicholas Georgescu-Roegen and H Daly models. Modern Environmental

principles and philosophies- gaia, eco-feminism, deep ecology, gender and environment, eco-feminism, Marxian views and Gandhian views.

- 2 **Population, Society and Sustainable Development:**
Population and resources; 'Population stabilization' to 'Population balance'; Population and food; Migration, population change and rural environment; Population, environment and development in Urban settings; Development and urban ecology; Slums, Urban Poverty and Rehabilitation. Resettlement and rehabilitation of people: Its problems and concerns; Indigenous population and traditional methods of environmental sustainability; Common property resources and rural poor in India. Environmental conflicts and movements in India. Vulnerability of Indigenous population; Population, poverty and vulnerability; Case Studies – Sacred forests, Anti-Eucalyptus movement, Narmada and Vedants (Orissa) Projects.
- 3 **Population, Quality of Life and environment Linkages:**
Quality of life: definition and measurement; environmental health hazards, Causes and Effects of Pollution; Different types of pollution, Case studies on pollution; Global environmental pollution.
- 4 **Innovations for Sustainable Development:**
Why making policy on environment is difficult, Case studies based on experiences from developed and developing countries; How the concept of sustainability has influenced the policy, programme practice in development sectors., World summits- issues and challenges, Issues related to natural resources management; Emerging new institutions of environmental protection; Capacity Building, Technology Transfer for Sustainable Development; Creating and managing emission related norms; Some success models of efficient environmental management – CNG, Smokeless Choolah, and other successful green models.

IV. Developmental Policies and Programmes:

1. Developmental policies and programmes with special reference to India, policies related to environment.
2. Global Perspective of Development and environmental policies

V. Social Policies

1. Introduction: Defining social policy, need for social policies, overview of social and welfare policies, evolution of social and welfare policies. Social policies linked with development and population: Rights approach.
2. Gender and development: Theoretical issues and recent developments, gender dimensions of policy making, social construction of gender, 'engendering' development

VI. Welfare policies and measures in India at different sectors:

- a. Health b. Education c. Food and nutrition d. Water and Sanitation
- e. Housing f. Youth g. Women and children h. Aged i. Social security

VII. Health policies and programmes:

Critical review of major Indian/International declarations, ICPD-1994, NPP-2000, NHP-2017, recent health programmes, success stories, etc.

Evaluation of social welfare and health policies: Macro level and micro level, coverage and quality, beneficiary assessment.

Reading List

1. Alkire, S. and Santos (2010). *Acute Multidimensional Poverty: A New Index for developing countries*, Oxford Poverty & Human Development Initiative (OPHI) Working paper 38, Oxford Department of International Development, University of Oxford.
2. Alkire, S.(2007). *The Missing Dimensions of Poverty Data: Introduction to the Special Issue*, Oxford Development Studies, 35 (4), 347-359.
3. Addison, AB and Bourguignon F. *Introduction to Handbook of Income Distribution*
4. Beatriz Armendáriz and Jonathan Morduch (2005). *The Economics of Microfinance*, The MIT press.
5. Bryant H Richard (1996). *Physical Geography Made Simple*, Rupe C Publication.
6. Bourguignon, F and Chakravarty SR. (2003). The Measurement of Multidimensional Poverty, *Journal of Economic Inequality*, 1(1), 25-49.
7. Brundtland, GH (ed.) (1987). *Our Common Future: The World Commission on Environment and Development*, Oxford, Oxford University Press.
8. Burchart, T Grand, JL and Pischaud, D (2002). *Understanding Social Exclusion*, Oxford University Press, London.
9. Chakravarty, S. (2005). The History and Geography of Regional Development Theory: A Futile Search for a Paradigm; in N. Banerjee and S. Majhi (eds.) *Development, Displacement and Disparity*, Orient Longman, New Delhi: pp. 29-52.
10. Datt, R. (2008). *Growth, Poverty and Equity: Story of India's Economic Development*. Deep and Deep Publication, New Delhi.
11. Deaton, A. (2003). Health, inequality, and economic development. *Journal of Economic Literature* 41: 113-58.
12. Gordon, D et al. (2000). *Poverty and Social Exclusion in Britain*. Joseph Rowntree Foundation, The Homestead, New York.
13. Goudie Andrew (1994). *The nature of the Environment*, Blackwell Publishers.
14. Hashim Ahmed (2000). *Principles of Environmental Economics*, Routledge.
15. Karmakar K.G. (2008). *Microfinance in India*, SAGE.
16. Lafferty W. (ed.) 2004. *Governance for Sustainable Development. The Challenge of Adapting form of Functions*, Cheltenham: Edward Elgar, (chapter 1 and 11).
17. McNicoll, Geoffrey (2005). *Population and Sustainability*. Working paper No.205. New York, Population Council.
18. O'Neill et al. (2004). Population, Greenhouse Gas Emissions and Climate Change. Essay in book: Lutz W. et al. (editors). 2004. *The End of Population Growth in the 21st Century* London: Earthscan Our Common Future, *Report of the World Commission on Environment and Development*
19. Rangarajan M. (2007). *Environmental Issues in India*, Pearson Langman.
20. Sen, A.K. (2000). Social exclusion: Concept, Application and Scrutiny, *Social Development Papers No. 1*, Asian Development Bank, Manila, Philippines.
21. Sen A. (1997). *On Economic Inequality*. Oxford: Clarendon Press.
22. Shiva Vandana (1988). *Staying Alive: Women, ecology and Development*, ZED Books.
23. Stern O. (2006). *The Economics of Climate Change*, Cambridge.
24. Susan Johnson, Ben Rogaly (1999). *Microfinance and poverty reduction*, OXFAM.
25. UNDP (2010). *Human Development Report 2010*, Palgrave Macmillan, New York.
26. UN. (2001). *Population, Environment and Development: A concise report*.
27. University Grant Commission (2005). *Text Book of Environmental Studies*. Universities Press
28. Wagstaff A, Paci P, Van Doorslaer E. (1991). On the measurement of inequalities in health. *Social Science & Medicine* 33: 545-57.
29. Yunus Md. (2007). *Banker to the Poor: Micro-Lending and the Battle Against World Poverty*, Public Affairs, New York.

30. World Health Organization (2000). *World Health Report 2000. Health systems: Improving Performance*. Geneva, World Health Organization. Also available on the worldwide web at www.who.int/whr.
31. Brundtland, G.H. (1987). *Our Common Future: The World Commission on Environment and Development*, Oxford, Oxford University Press.
32. Davis, Kingsley and Mikhail S. Bernstein (eds.) (1991), *Resources, Environment, and Population: Present Knowledge, Future Options*. New York: Oxford University Press.
33. Dawson, P. J. and R. Piffin, (1998). Is there a long run relationship between Population growth and living standards? The case of India, *Journal of Development Studies*, 34: 149-156.
34. Holdren, J. P., and P. R. Ehrlich (1974). Human population and the global environment. *Am. Sci.* 62: 282-292.
35. Kern, R., Parto, S. and Gibson, R.B. (2005). Governance for Sustainable Development: Moving from theory to practice, *The International Journal of Sustainable Development*, 8(1/2), 12-30.
36. McNicoll, Geoffrey (2005). *Population and Sustainability*. Working paper No.205. New York, Population Council.
37. Preston, Samuel H. (1994). *Population and Environment: From Rio to Cairo*. Liège: International Union for the Scientific Study of Population (IUSSP).
38. Simon, Julian L. (1996). *Population Matters: People, Resources, Environment, and Immigration*. Transaction Publishers: New Brunswick, NJ.
39. UNFPA (2009). *State of World Population- 2009: Facing a changing world: Women, Population and Climate*. UNFPA, New York.
40. Sabatier, Paul (2007). *Theory of the policy Issues*, West View Press, Colorado.
41. Dutt, Jean and Amartya Sen (1996). *Indian Development: Select Regional Perspectives*, Oxford University Press, New Delhi.
42. Baldock, J, N.Manning and S.Vlekerstaff (2007). *Social Policy*, Oxford University Press, New York.
43. Government of India (2008). *Eleventh Five Year Plan 2007-2012: Social Sector*, Planning Commission, Oxford University Press, New Delhi.

ANNEXURE-III

Rules for Cancellation of Admission

(MA/M.Sc/MBD/MPS/Ph.D)

IIPS Mumbai will consider any request for cancellation of admission if such request is made in accordance with the following prescribed Rules:-

1. Any student admitted to any of the courses offered by the Institute may apply for cancellation of his/her admission at any time during the academic year of admission or later.
2. Application for Cancellation must be made in the prescribed format (enclosed) duly signed by the student & presented /submitted in person. Other mode of application will not be entertained. Please note that presence of the student is must for cancellation of his/her admission. Request received through Email or Post will not be entertained and responded to. Exceptional cases will be considered subject to approval by the Director & Sr. Professor
3. Refund of fee to such students will be made as per Institute refund rules and bond executed by student. All refunds shall be made in the bank account of the student as per the details furnished by students, if eligible.
5. TC/MC will be issued only after production of original complete 'No Dues Certificate' wherever applicable and approval of the cancellation. For issue of TC/MC candidate has to pay the required amount. (Minimum time required: 7 working days).
6. Letter of Authority in original where in the signature and photo identity of authorized person is attested by the authorizer must be presented to the Assistant Registrar (Academic), in case the applicant is authorizing some person to receive the TC /MC on his/her behalf.
7. **Refund Rules:** If any student desires to withdraw admission on or before the stipulated time as mentioned on the Institute's website, the refund of course fee will be done after deducting the Admission Fees paid at the time of online registration. If any student withdraws admission after the stipulated time mentioned on the Institute's website, no fee will be refunded.
8. **Bond Rules & Regulation:** The fellow will have to execute a bond requiring him/her to refund the fellowship received by him/her, if the fellowship is discontinued before the end of the prescribed period. The condition of bond cannot be waived or relaxed except by the Executive Council of the Institute.

To
The Director
IIPS-Mumbai
Deonar, Mumbai

Date:...../...../.....

Subject: Request for Cancellation of Admission

I was enrolled at International Institute of Population Sciences -Mumbai in the academic year.....

My particulars are as follows:-

Name	
Father /Mother Name	
Enrolment No	
Programme in which Admitted :- (M.A/M.Sc/MBD/MPS/ Ph.D)	
Current Academic Year	
Current Semester	
Mobile No	
Email	
Reasons for Cancellation of admission	
Weather received scholarship/fellowship from IIPS	Yes() No ()
If Yes, details of scholarship/fellowship	Total in Rs.....
Weather the scholarship/fellowship returned to IIPS as per Bond	Yes () or No () or Not applicable () If Yes, Amount: Rs.....Date:..... Transaction details:..... (Must enclosed receipt)
Weather required TC cum Migration	Yes() No () (If yes, must enclosed payment receipt)
Bank Details (if eligible for refund), Bank Account number should be in the name of student only.	
Name of A/c holder	
Bank A/C No.	
IFSC code	
Name of Bank	

I would like to cancel my admission for the seat allotted in IIPS Mumbai. I request you to kindly allow to refund fee as per the Institute refund rules and bond executed by me, if I am eligible for the same. I have read the institute rules for cancellation of admission which is available on website of the Institute. I shall abide by all the rules, regulations, terms and conditions of the Institute.

Signature of Candidate with date

Mandatory Enclosures: -

- 1.Valid Photo Id.proof 2.Admission Order 3.Self attested bank passbook copy4.Original no-dues 5.Self attested Fee receipt 6.For TC-Payment receipt

Office Use

Course Coordinator

Assistant Registrar(Acad.)

The above candidate is allowed to withdraw his/her seat on his/her own request.

.....
Director & Sr. Professor

MINUTES OF THE MEETING OF THE ACADEMIC COUNCIL OF THE INTERNATIONAL INSTITUTE FOR POPULATION SCIENCES HELD ON DECEMBER 09, 2022.

The meeting of the Academic Council was held on December 09, 2022 at 10.30 AM in Seminal hall and was chaired by Prof K.S James, Director and Senior Professor, IIPS .At the outset, the Chairperson extended warm welcome to all members and external experts to the meeting of the Academic Council. The list of members attended the meeting is given in Annexure I.

Prof. K.S James, Chairperson of Academic Council requested Prof. S.K.Singh , Member-Secretary to proceed with the agenda.

Agenda No.1 : To confirm the minutes of Academic Council Meeting held on May 20, 2022.

The members of Academic Council confirmed the minutes of Academic Council held on May 20, 2022.

Agenda No 2 : Action taken on the Minutes of Academic Council Meeting held on May 20, 2022.

Action taken report on the minutes of Academic council meeting held on May 20,2022 was noted by the members.

Agenda No 3 : To discuss & approve the recommendation of Syllabus Restructuring Committee.

The Director & Sr. Professor has constituted a committee for making necessary changes in the existing syllabus of degree programmes (MA/M.Sc,MBD,MPS and Pre-Ph.D coursework) in line with NAAC indicators.

The AC was briefed by the Prof.T.V Shekhar, Chairperson ,Syllabus Restructuring Committee on the above . The committee suggested seven value-added courses to be included in the syllabus. The committee has recommended Internship should be made an integral part of the programme structure and mandatory for award of degree.The report of the committee also emphasis on field projects/research projects, career counselling and guidance for competitive examinations, capacity development and skill enhancements for students etc. Lastly, the committee has suggested for revision of syllabus of Master degree programmes by considering the recent developments in the subject.

The members of the AC gave their views and opinions on the report. Academic Council approved the recommendation of the committee.

Agenda no 4: To discuss & approve the recommendation of the Committee for Extension Activities of students and involving Ph.D students in teaching assistance Programme.

The Director & Sr. Professor has constituted a committee to work out extension activities for students for various courses and to work out the possible ways by which Ph.D. students can be involved in teaching.

Prof. Usha Ram Chairperson of the committee presented the existing and proposed extension activities of the Institute. The committee has recommended the knowledge

dissemination by the IIPS students in the neighbourhood areas on general issues, health camp for IIPS students, staff, nearby slum etc. The committee also proposed clean up abhiyan/Shramdaan/tree plantation in collaboration with BMC/NGOs/Red Cross/Lions Club, create awareness about various govt. scheme, Celebrating world environment day/International Yoga day/, Movember -men's health day/National youth day etc.

In addition, The committee has also recommended to involving 3rd & 4th year Ph.D students in the teaching activities of the Institute upto 10 percent of the lectures.

The Academic Council did not approve involving Ph.D. students for the teaching. But they may be involved in practical classes, teaching assistantship etc .

Academic Council approved the recommendation of the committee and suggested IIPS to workout implementation plan.

Agenda no 5: Review the progress of internally and externally funded research projects of the Institute.

The Academic Council reviewed and approved the progress of the following projects along with their timelines.

Internal Funded projects:

Sr. No.	Project Name	Co-ordinators	Start Date	Completion Date	Remarks
1	Estimation of Internal Migration in India and its States, 1971-2011	Dr. Rashmi, Dr. R.R Bhagat	Apr-20	-Sep-22	Completed
2	Health expenditure on breast cancer treatment in women. A study from sector tertiary Cancer Center	Dr. S. K Mohanty	July-19	Dec-22	Approved Extension upto March 2023.
3	Longitudinal study of Maternal and Infant Nutrition in Maharashtra (LoMINM)	Dr. S. Unisa, Dr. L.K Dwevedi, Dr. Dilip T.R Dr. Sonali P. Dr. Preeti Chhillar Dr. K.S. Reshani Dr. Suresh Jangari Mr. Anjali Kumar Mishra CEO of Raigad District	Jan-21	Mar-24	Noted
4	Estimation of child mortality and immunization coverage at district level in India. An application of small area estimation techniques	Dr. K.S. James Dr. L.K. Dwevedi	April-21	Mar-23	Noted
5	Projection of Annual cancer incidence at district level by quinquennial age group and sex from 2021 to 2031 in Maharashtra	Dr. Murali Dhar, Dr. Anil Rastogi	January-22	July-23	Noted
6	Cost of treating Gastrointestinal cancer and the burden of treatment on patient's household	Dr. Dilip T.R. Dr. Shalish Shrikhande & Dr. Manish Bhandare	Sep-21	Aug-23	Noted
7	Small estimates of Covid-19 disease in India: What we missed	Dr. Suryakant Yadav Dr. Dilip T.R	June-21	Jan-23	Noted (Hold from August '22 to January '23)
8	Demography of Polygamy in India	Dr. Harish Sahas and Dr. R. Nagarajan	Aug-21	July 2023	Ongoing
9	A study on marriage and dissolution pattern in India	Dr. D. V. Nagpure, Dr. C. Shekhar, Dr. M. Alagarsan, Dr. H. Sahas, Dr. Srinivas Goli, Dr. M R Pradhan	May 2022	Dec 2024	Noted
10	An assessment of Civil Registration System in India	Nandita Sarkis, T R Dilip and Kausikendra Kumar	Aug-22	Jan-24	Noted
11	Violence against women (Domestic and sexual) among the tribes in Northeast India: Complementing qualitative information with NFHS data	Dr. C.J. Borooa	Nov-22	Jan-23	Noted Project commenced from 1 st November 2022
12	Estimation mortality indicators for North Eastern Region of India based on recent survey data (NFHS and NFHS)	Dr. H. Jhanghian, Dr. Abhishek Singh, Dr. Dhananjay Banerjee, Dr. Nandita Sarkis, Dr. Kausikendra Kumar, Dr. Suresh Jangari	Oct -2022	March 2024	Noted

External Funded Projects:

Sl. No.	Project Name	Co-ordinators	Start Date	Completion Date	Status
1	Protection of children affected by seasonal migration: A study in Jalgaon district of Maharashtra	Dr. K. C. Das, Dr. R. B. Bhagat Dr. Archana K. Roy	Jan-20	May-22	Completed
2	Demographic and Health Surveys and it's Quality in India: A Programme to Develop Survey Framework (Population Control)	Dr. S.K. Singh, Dr. D.A. Nagdev, Dr. S.K. Mohanty, Dr. Laxmikant Dabwadi	Apr-20	Sep-22	Completed
3	National Family Health Survey-5	Dr. K.S. James, Dr. S.K. Singh, Dr. H. Dhungdim, Dr. Chandar Shekhar, Dr. L.K. Dabwadi Dr. Sarang Pedgankar	Jan-19	Dec-22	Noted
4	Longitudinal Aging Study in India (LAS) Main Wave 1 and 2 (2016-21)	Dr. K.S. James, Dr. T.V. Sekher, Dr. Chandar Shekhar, Dr. R. Nagarajan, Dr. Aparajita Chatteropadhyay, Dr. Dipi Gauri Dr. Sarang Pedgankar	Jan-16	—	Noted
5	Global Youth Tobacco Survey-4	Dr. H. Dhungdim, Dr. R. Nagarajan Dr. Murali Dhar	Apr-18	June-22	Approved Extension upto March 2023
6	Study of Global Aging and Adult Health (SAGE)- India, Wave-3, 2019-22	Dr. T.V. Sekher, Dr. Murali Dhar Dr. Archana K. Roy	Jan-19	December-22	Noted
7	End line survey of SWASHIMAN Nutrition Demonstration programme in House 1 States (Bihar, Chhattisgarh and Odisha)	Dr. Sayeed Unisa, Dr. Laxmikant Dabwadi, Dr. Sarang Pedgankar Dr. R.S. Redhmi	Jan-21	July-22	Noted
8	Gender Equity and Health (GEM) Project (2017-20)	Dr. K.S. James, Dr. Abhishek Singh Dr. Koushaleendra Kumar	Nov-18	Nov-22	Noted
9	R4D India (LAS-VIS Study) Project name changed	Dr. S.K. Mohanty, Dr. Sarang Pedgankar	Feb-21	Dec-22	Approved Extension upto June' 2023
10	Exemplars in Maternal & New born Mortality Reduction in India.	Dr. Unisa Unisa, Dr. Murali Alagappan, Dr. K.S. James	May-21	Mar-23	Noted
11	Integrating Aging Research with Policy and Programmes in India	Dr. K. S. James, Dr. D. Gauri, Dr. H. Sahoo	Aug-21	—	Noted
12	The Harmonised Diagnostic Assessment of Dementia for the Longitudinal Aging Study in India (LAS- DAD Study) (2016-2021) in collaboration with University of Southern California and All India Institute of Medical Sciences.	Dr. T.V. Sekher Dr. Sarang Pedgankar	Jan-19	July-22	Noted
13	To Study Nutritional Status of Children under five (05) and functioning and utilization of ICDS in the Union Territory of Ladakh in India.	Dr. K.S. James, Dr. Abhishek Singh, Dr. Koushaleendra Kumar, Dr. Suresh Jangari	Dec-21	March-23	Noted
14	South Asia Centre for Labour Mobility and Migrants (SALAM) Funded by ILO, IOM And UN Women	Dr. R.B. Bhagat, Dr. K.C. Das Dr. Redhmi, R.S.	October 11, 2021	July 10, 2023	Noted
15	National Family Health Survey-6	Dr. K.S. James, Dr. S.K. Singh, Dr. Abhishek Singh, Dr. Dhyanraj Bansod, Dr. Laxmi Kant Dabwadi, Dr. Harish Sahoo Dr. Sarang Pedgankar, Dr. Preeti Dhillon, Dr. Redhmi R. S.	July 2021	— 2023	Noted
16	Global Adult Tobacco Survey-3	Dr. R. Nagarajan, Dr. Murali Dhar, Dr. Mudit Saikia, Dr. Dipi TR, Dr. Murali Pradhan, Dr. Pradeep Salve	Nov-2021	Aug-22	Approved extension upto March 2023
17	Dissemination of Tele-SWASHIMAN Women's Nutrition Demonstration Programme in TELANGANA	Dr. Sayeed Unisa, Dr. L.K. Dabwadi, Dr. Sarang Pedgankar, Dr. Preeti Dhillon, Dr. Redhmi R.S.	Dec-2021	Sep-2022	Noted
18	IPPR-International Food Policy research institute (IPPR) Project	Dr. K.S. James, Dr. S.K. Singh	Nov-2021	Nov-2022	Noted

Agenda no 6: New Projects Proposal.**Internal Funded Projects:**

Sr. No.	Project Name	Suggestion	Remarks
1	A study of Migrants in Mumbai from within Maharashtra. Co-ordinators : Dr.Sunil Sarode, Dr.Archana Roy, Dr. Suresh Jungari, Dr.Kunal Keshri	It was suggested that the project may be limited to qualitative data collection.	Approved subject to incorporating the suggestion.
2	Consequences of Male Migration on left-behind women, children and elderly parents in Kerala and Middle Ganga Plain: Differentials and Determinants. Co-ordinators: Dr.Archana K Roy, Dr.Dipti Govil, Dr.Suryakant Yadav and Dr.K C Das	It was suggested that the study may take up a specific issues than covering many aspects of migration	Approved subject to incorporating the suggestion.
3	<i>famTRANS - Families in Transition</i> Co-ordinators: Dr. Srinivas Goli, Dr.T.V.Sekher,	---	Approved .
4	The Effect of Resettlement on Livelihood Rebuilding, Women Health and Demographic Behaviour: The Study of Indira Sagar Irrigation Project in Bhandara District of Maharashtra Co-ordinators: Dr.D. A. Nagdeve	It was suggested that the emphasis of the study may be limited to demographic and health behaviors.	Approved subject to incorporating the suggestion.

External Funded Project:

Sr. No.	Project Name	Co-ordinators	Start Date	Completion Date	Remarks
1	Small area estimates of hypertension and Diabetes in India	Dr Suryakant Yadav Dr Solveing A. Cunningham, Dr Waller Lance (Emory University), Dr Siddharta Mandal, Dr Dimple Kondal	Dec-2022	July 2023	Approved.

Agenda no 7: To discuss about the conversion formula from CGPA to Percentage.

A Committee was constituted by the Director & Sr.Professor vide letter no:DIR/OO/dir-212/2022 dated 18th October 2022 to frame the formula from CGPA to percentage for all the courses of the Institute. The Chairperson of the committee Prof.S.K. Mohanty has presented the recommendation of the committee in brief. The recommendation of the committee is as below:

CGPA to Percentage Conversion formula
Marks in Percentage =CGPA x 10 (notional)

Academic Council approved the recommendation of the committee.

This formula currently practised in the Institute for various teaching programme came into effect from the admission batch 2017-18. Those who have passed out with the existing percentage conversion formula may request for new mark sheet with new percentage in case they require for any specific purpose.

Agenda no 8: Reporting of matters regarding new courses, syllabus revision & distance education department.

- I. The 111th Executive Council of IIPS in line with NEP 2020 approved the proposal to start a new Master's programme on Survey Research and Data Analytics at IIPS from the academic year 2024-25 subject to the approval of the UGC.
- II. A committee has been constituted to frame the syllabus of the Master's Programme on Survey Research & Data Analytics
- III. Three Committee has been constituted for the revision of syllabus of MPS, M.A-M.Sc(Regular & Distance Mode) and MBD course.
- IV. As per approval of 112th Executive Council meeting, the name of the distance education department has changed from "Department of Extra-Mural Studies and Distance Education" to "Centre for Distance and Online Education" with immediate effect.

Academic council noted the reporting of matters.

Agenda No 9: To approve the proposed elective courses as recommended by the BoSR .

It was discussed that there is a need to develop more elective papers in various academic programmes in the light of CBCS. The following elective papers are approved by academic council.

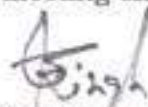
- I. Gender Theories, Demography and Development
- II. Political Demography
- III. Family Demography
- IV. Occupational Health and Demography

Agenda No 10: Any other matter with the permission of Chair.

With the permission of Chairperson, Students Feedback on Curriculum & Students Satisfactory Survey for various teaching programmes were presented by the Prof. R. Nagarajan, Controller of Examination.

The members of the AC gave their views and opinions on the report. Academic Council noted the report.

The meeting ended with vote of thanks to the Chair.


(Prof. S.K. Singh)
Professor, and
Member-Secretary, IIPS


(Prof. K.S. James)
Director & Sr. Professor, and
Chairperson, Academic Council, IIPS

Annexure I

List of Members Attended

Sr. No.	Name of the Member	
1	Prof. K.S. James, Director & Sr. Professor	Chairperson
2	Prof. V.K. Tiwari, Nominated by The Director, NIHFW, New Delhi	Member
3	Prof. S.K. Singh, Dept. of Survey Research & Data Analytics	Member Secretary
4	Prof. D.A. Nagdeve, Dept. of Fertility & Social Demography	Member
5	Prof. Hemkothang Lhungdim, Dept. of Public Health and Mortality Studies	Member
6	Prof. Kailash Chandra Das, Dept. of Migration & Urban Studies,	Member
7	Prof. T.V. Sekher, Dept. of Family & Generations,	Member
8	Prof. Chander Shekhar, Dept. of Fertility & Social Demography	Member
9	Prof. Sanjay Kumar Mohanty, Dept. of Population & Development.	Member
10	Prof. R. Nagarajan, Dept. of Population & Development.	Member
11	Prof. Usha Ram, Dept. of Bio-Statistics and Epidemiology	Member
12	Prof. Murali Dhar, Dept. of Bio-Statistics and Epidemiology	Member
13	Prof. Archana Roy, Dept. of Migration & Urban Studies	Member
14	Prof. Dhananjay Bansod, Dept. of Public Health & Mortality Studies	Member
15	Prof. Aparajita Chattopadhyay, Dept. of Population & Development	Member
16	Prof. Laxmikant Dwivedi, Dept. of Survey Research & Data Analytics	Member
17	Prof. Udaya Shankar Mishra, Dept. of Bio-Statistics and Epidemiology	Member
18	Shri Amrit Lal Jangid, Nominated by the CD (Stats), MoHFW, New Delhi	Member
19	Prof. Sanghamitra S. Acharya, JNU, New Delhi	External Member
20	Prof. S. Chandrasekhar, IGIDR, Mumbai	External Member
21	Dr. Harihar Sahoo, Associate Professor, Dept. of Generations and Statistics	Member
22	Dr. Dilip T.R., Associate Professor, Dept. of Family & Generations Statistics	Member
23	Dr. Dipti Govil, Assistant Professor, Dept. of Family & Generations Statistics	Member
24	Mr. Sudarshan Bhadra, Assistant Registrar (Acad.)	Invitee

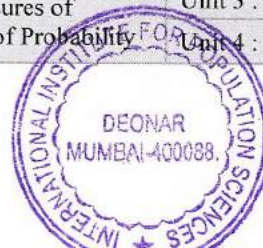
List of Members could not Attended the Meeting

Sr. No.	Name of the Member	
1	Dr. Sunil Vilasrao Gitee, Director, NIPHTR, Mumbai	Member
2	Prof. Surinder Jaswal	External Member
3	Prof. Anjali Radkar	External Member
4	Prof. Abhishek Singh	Member
5	Prof. Nandita Saikia	Member
6	Prof. Chandra Jyoti Sonowal	Member
7	UGC Representative	Member



Department of Extra Mural Studies & Distance Education
International Institute for Population Sciences, Mumbai
M.A. (Population Studies) Distance Learning Course
Course Curriculum

Course Code	Course Name	Blocks		Units		Credits
		No. of Blocks	Block Name	Unit Name	No. of Units	
MSP-1F	Sociology, Psychology and Anthropology*	2	Block-1: Sociology and Anthropology	Unit-1: Study of Human Society	3	NC
			Block 2: Psychology	Unit-2: Society, Institutions and Social Change		
				Unit 3 : Social Psychological Concepts and Issues in Population Sciences		
MSP-2F	Economics and Geography*	2	Block 1: Economics	Unit 1: Basic Concepts in Economics	10	NC
				Unit 2: Basic Concepts in Micro Economics		
				Unit 3: Basic Concepts in Macro Economics		
				Unit 4: Basic Concepts in Public Finance		
				Unit 5: Indian Economy		
			Block 2: Geography	Unit 6: Study of Man and Nature		
				Unit 7: Geographic Approaches		
				Unit 8: Concepts of Human Geography		
				Unit 9: Human Settlements		
				Unit 10: Geography of India		
MSP-3C	Basic Statistical Methods for Population Studies	4	Block 1: Some Basic Mathematical Tools	Unit 1 : Elementary Mathematical Tools in the Field of Population	11	4
				Unit 2 : Interpolation and Graduation		
			Block 2: Basic Measures of Statistics, Elements of Probability	Unit 3 : Basic Measures of Statistics		
				Unit 4 : Elements of Probability Theory		



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			Theory and Probability Distributions	Unit 5 : Probability Distributions		
			Block 3: Statistical Methods Used in Population Data Analysis	Unit 6 : Correlation and Regression Unit 7 : Multivariate Techniques - I Unit 8 : Multivariate Techniques - II		
			Block 4: Sampling Designs and Statistical Inference	Unit 9 : Sampling Designs Unit 10 : Statistical Inference Unit 11 : Tests of Significance		
MSP-4C	Introduction to Demography and History of Population	3	Block 1: Introduction to Population Studies and History of Population	Unit 1: Introduction to Population Studies Unit 2: History of Population	6	4
			Block 2: Sources of Population Data	Unit 3: Sources of Population Data		
			Block 3: Age-Sex Structure	Unit 4: Basic Concepts and Importance of Age-Sex Structure Unit 5: Measures of Age and Sex Structure Unit 6: Trends and Patterns of Sex Ratio		
MSP-5C	Fertility and Nuptiality	4	Block 1: Nuptiality: Concepts and Measures	Unit 1 : Concepts and Basic Measures of Nuptiality Unit 2 : Estimation of Age at Marriage Unit 3 : Age at Marriage in India	12	4
			Block 2: Basic Concepts and Measures of Fertility and Reproduction	Unit 4 : Fertility Studies: Concepts and Sources of Data Unit 5 : Measures of Fertility and Reproduction Unit 6 : Indirect Methods of Estimation of Fertility		
			Block 3: Framework for and Synthesis of Fertility Analysis	Unit 7: Age Pattern of Fertility: Empirical Pattern and Mathematical Modelling Unit 8: Framework for and Synthesis of Fertility Analysis Unit 9: Hypothesis and Theory of Fertility Unit 10: Reproductive Motivations		
			Block 4: Fertility Transition in Some Developed and Developing Countries	Unit 11 : Fertility Transition Unit 12 : Large Scale Surveys : Substantive Findings		
MSP-6C	Evaluation, Adjustment of Demographic Data and Population Projection	2	Block 1: Evaluation and Adjustment of Demographic Data	Unit 1: Appraisal of the Quality of Age Sex-Data Unit 2: Evaluation of Errors in Age-Sex Data Unit 3: Techniques of Errors Adjustment in Age Data Unit 4: Quality Checks Assurance in Large Sample Surveys	10	4
			Block 2: Population Estimates and Projections	Unit 5: Basic Concepts of Population Estimates and Projections Unit 6: Methods of Obtaining Population Estimates		



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				Unit 7: Component Method of Population Projection		
				Unit 8: Other Methods of Population Projections		
				Unit 9: Rural-Urban and Sub-National Population Projections		
				Unit 10: Socioeconomic Projections		
MSP-7C	Introduction to Demographic and Statistical Software	1	Block 1: Introduction to Demographic and Statistical Software	Unit 1: Introduction to Computer	7	4
				Unit 2: Introduction to Micro-Soft Office (MS-Office)		
				Unit 3: Introduction to Internet and Info-POPLINE		
				Unit 4: MORTPAK		
				Unit 5: SPECTRUM		
				Unit 6: Statistical Package for Social Sciences (SPSS)		
				Unit 7: STATA		
MSP-8C	Migration and Urbanization	3	Block 1: Spatial Distribution: Measures and Patterns	Unit 1 : Spatial Distribution of Population	12	4
				Unit 2 : Population Redistribution		
			Block 2: Migration: Concepts, Measures, Determinants and Consequences	Unit 3 : Internal Migration : Concepts, Determinants and Consequences		
				Unit 4 : Direct Methods of Estimating Migration		
				Unit 5 : Indirect Measures of Net Internal Migration		
				Unit 6 : Migration Models		
				Unit 7 : International Migration : Trends, Types, Determinants and Consequence		
			Block 3: Urbanization: Concepts, Measures, Patterns and Consequences	Unit 8 : Urbanization: Concepts and Definitions		
				Unit 9 : Measurements of Urbanization and Urban Structure		
				Unit 10 : Urbanization process in Developed and Developing Countries		
				Unit 11 : Recent Trends and Prospects of the Process of Urbanization		
				Unit 12 : Urban Problems and Planning		
MSP-9C	Historical Demography	1	Block 1: Historical Demography	Unit 1: Introduction to Historical Demography	6	3
				Unit 2: Sources of Historical Data		
				Unit 3: Methods of Historical Demographic Research		
				Unit 4: Biological Evolution and Historical Migration		
				Unit 5: Census Administration in British India		
				Unit 6: History of India's Population Growth		



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MSP-10C	Gender and Reproductive Health	2	Block 1: Gender Issues in Population Studies	Unit 1: Gender Issues in Population Studies	8	4
				Unit 2: Autonomy, Empowerment and Status of Women		
				Unit 3: Gender Issues in Population: Evidence from India		
			Block 2: Reproductive Health	Unit 4: Introduction to Reproductive Health and Physiology of Human Reproduction		
				Unit 5: Maternal Mortality, Morbidity and Menopause		
				Unit 6: Infertility: Causes, Consequences and Measurements		
				Unit 7: Reproductive Health Issues and Sexually Transmitted Infections		
				Unit 8: Theories on Reproductive Health Behaviour and Reproductive Rights		
MSP-11C	Population and Development	4	Block 1: Population and Development: Concepts, Measures and Linkages	Unit 1: Concepts and Measures of Development	12	4
				Unit 2: Theories and Strategies of Development		
				Unit 3: Linkages of Population and Development		
			Block 2: Divergent Views of Population and Development	Unit 4: Pre-Modern views of Population and Development		
				Unit 5: Modern views of Population and Development		
			Block 3: Population and Development: Natural, Capital and Human Resources	Unit 6: Natural Resources		
				Unit 7: Capital Resources		
				Unit 8: Human Resources : Quantitative Aspects		
				Unit 9: Human Resources – Qualitative Aspects		
			Block 4: Social Development and Environment: Concepts and Implications	Unit 10: Environmental Degradation: Policy and Programme for Better Environment		
				Unit 11: Population and Climate Change		
				Unit 12: Sustainable Development and Resources, Effect of Population Growth and Industrialization		
MSP-12C	Research Methodology	2	Block 1: Basic Concepts and Sampling Techniques	Unit 1: Introduction to Research Methodology	9	4
				Unit 2: Measurement		
				Unit 3: Some Elementary Ideas about Sampling Techniques and their applications		
				Unit 4: Qualitative Research Methods		
			Block- 2: Research Methods	Unit 5: Research Design		
				Unit 6: Methods of Data Collection		
				Unit 7: Data Processing and Analysis		



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				Unit 8: Writing a Research Proposal		
				Unit 9: Writing Research Report		
MSP-13C	Concepts and Measures of Global Health	2	Block 1: Concepts, Measures and Determinants of Global Health	Unit 1: Concepts and Introduction	6	3
				Unit 2: Global Burden of Disease-measuring Global Health		
				Unit 3: Determinants of Health		
				Unit 4: Environment and Health		
			Block 2: Health Care Delivery Systems and Policies	Unit 5: Health Care Delivery Systems		
				Unit 6: Policy and Health		
MSP-14C	Population Policies, Programme and Evaluation of HFW Programme	3	Block 1: Population Policies and Programmes	Unit 1: Population Policy : Concepts and Issues	13	4
				Unit 2: Fertility Influencing Policies		
				Unit 3: Mortality Influencing Policies		
				Unit 4: Migration Influencing Policies		
				Unit 5: Population Policies and Programmes in Some Selected Countries		
			Block 2: Population Programme Management	Unit 6: Management : A Brief Introduction		
				Unit 7: Features of Population Programme Management		
				Unit 8: Quality of Care in Family Planning Programme		
			Block 3: Evaluation of Family Planning Programme	Unit 9: Evaluation of Family Planning Programme: Concept, Definitions and Data Requirements		
				Unit 10: Evaluation of Family Planning Programme Execution		
				Unit 11: Economic Evaluation of Family Planning Programmes		
				Unit 12: Evaluation of Intermediate Impact Objective		
				Unit 13: Evaluation of Fertility Impact of Family Planning Programmes		
MSP-15C	Advanced Statistical Packages and Applications in Large-scale Data	1	Block 1: Advanced Statistical Packages and Applications in Large-Scale Data	Unit 1: Scope of Large Scale Surveys and Big Data	3	3
				Unit 2: Software and Quality Assurance Procedures		
				Unit 3: Use of STATA and R for Sampling and Estimates		
MPS-16C	Morbidity, Mortality and Public Health	3	Block 1: Basic Concepts and Measures of Morbidity	Unit 1: Basic Concepts and Analysis of Health and Morbidity Statistics	9	4
				Unit 2: International Classification of Diseases and Causes of Death		
				Unit 3: Epidemiology, Public Health and Burden of Disease		
			Block 2: Basic Concepts and Measures of Mortality	Unit 4: Importance of Mortality Studies: Concepts, Definitions and Differentials		



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				Unit 5: Measures of Mortality		
				Unit 6: Health Transition: Mortality Concepts and Patterns		
			Block 3: Life Table and Indirect Methods of Mortality Estimation	Unit 7: Life Table Techniques		
				Unit 8: Model Life Table Systems, Multiple Decrement Life Tables		
				Unit 9: Indirect Methods of Mortality Estimation		
MSP-17C	Population Ageing and Health Transition	3	Block 1: Life Course Perspective and Socio-demographic Dynamics of Ageing	Unit 1: Demography of Ageing	6	4
				Unit 2: Life Course Perspective and Social Dynamics of Ageing		
			Block 2: Health Transition, Health Care System and Health Financing	Unit 3: Health Transition		
				Unit 4: Health Care System for Geriatric Care and Health Financing		
				Unit 5: Population Ageing and Economic Conditions		
			Block 3: Elder Care and Policies	Unit 6: Ageing Policies and Programmes		
MSP-18E	Urbanization, Space and Planning	1	Block 1: Urbanization, Space and Planning	Unit 1: Urbanization and Space	10	3
				Unit 2: Human Settlements		
				Unit 3: Urban Morphology and Theories of Urban Development		
				Unit 4: Theories of Regional Development and Planning		
				Unit 5: Urban Planning: Concepts and Elements		
				Unit 6: Regional Development: Concepts and Needs		
				Unit 7: Planning for Metropolitan City and Region: A Case of Mumbai		
				Unit 8: Urban Policies and Programmes		
				Unit 9: Challenges in Urban Planning		
				Unit 10: Application of GIS in Urban and Regional Planning		
MSP-18E	Biostatistics and Epidemiology	1	Block 1: Biostatistics and Epidemiology	Unit 1: Introduction and Basics of Biostatistics	5	3
				Unit 2: Measures of Disease Frequency and Epidemiology		
				Unit 3: Study Designs used in Medical Statistics		
				Unit 4: Clinical Trials		
				Unit 5: Survival Analysis		
MSP-TP	Dissertation/Term Paper			-		10
MSP-VV	Viva-Voce			-		4
Total		44		-	158	74

*Not counted for calculation of final grade

F-Foundation Course, C-Core Course, E-Elective course, NC-Non credited course, VV-Viva-Voce, TP-Term Paper

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