International Institute for Population Sciences

GOVANDI STATION ROAD, DEONAR, MUMBAI 400088

Criterion: III

3.4.1 - The institution ensures implementation of its stated Code of Ethics for research

3.4.1.1 - The institution has a stated Code of Ethics for research and the implementation of which is ensured through the following

1. Inclusion of research ethics in the research methodology course work 2.Presence of institutional Ethics committees (Animal, chemical, bioethics etc) 3.Plagiarism check 4.Research Advisory Committee

Contents

	1. Inclusion of research ethics in the research methodology course work		
		1	MPS Research Methodology and Operation Research Syllabus
		2	MA/MSc Research Methodology and Operation Research in Reproductive Health Syllabus
		3	MSc Biostatistcs and Demography Research Methodology and Operation Research Syllabus
		4	MPhil / Pre. PhD Advanced Research Methodology Syllabus
		5	Occasional training on research methods
	2. Presence of institutional Ethics committees (Animal, chemical,bio-ethics etc)		
		1	Institutional Review Board (IRB) Members Office Order - Ethical clearance of the institute project
		2	Institutional Review Board (IRB) Members on IIPS website - Ethical clearance of the institute project
		3	Institutional Review Board (IRB) certificate format - Ethical clearance of the institute project
		4	Students Research Ethics Committee (IIPS-SREC) - to review the research proposals submitted by the students for compliance of ethical norms
		5	Students Research Ethics Committee (IIPS-SREC) - Ethical Clearance Form for student
		6	Students Research Ethics Committee (IIPS-SREC) - Informed Consent Guidelines for student
	3. Plagiarism check		
		1	Supply Order for supplying Grammarly Writing Support SW and plagiarism Checker
		2	Grammarly Tax Invoice 2018
		3	Grammarly Tax Invoice 2015
		4	Office Order Plagiarism check for Ph.D. Thesis
		5	Sodhganga and Plagiarism Training Notice
	4. Research Advisory Committee		
		1	Circular Concept Committee Meeting 2020
		2	Concept note committee member and meeting 2018
		3	Concept note committee member and meeting 2015
		4	Office order Ph.D. advisory committee member

SYLLABUS
M.P.S. COURSE

International Institute for Population Sciences
(DEEMED UNIVERSITY)
Deonar, Mumbai 400 088.
Website: http://www.iipsindia.org

About the Institute

The Institute was established in 1956 as the regional centre for training and research in Population Studies for the country of Asia and Pacific region. The International Institute for Population Sciences embraced the present name and was declared a "Deemed University" in 1985 by the Ministry of Human Resource Development, Government of India. The Institute is an autonomous body under the administrative control of the Ministry of Health and Family Welfare, Government of India. This is the only Institute of its kind in the world exclusively devoted to teaching and research in population sciences. Over the last fifty years, the Institute has helped in building a nucleus of professionals in the field of population in various countries in the ESCAP region. Many who were trained at the Institute now occupy key positions in reputed national and international organizations.

Rules for Master of Population Studies (M.P.S.)

The M.P.S. course is designed to provide a higher level of understanding of the population sciences including an in-depth knowledge of the linkages between population and various dimensions of socio-economic, health and environmental development. These courses also provide a comprehensive idea to conduct further research in various aspects of population and development.

MPS One-Year Course				
Semester I				
Paper Code	**Explanation**	**TITLE**	**Credits**	**Hours**
MPS F1	Foundation	Basic Statistical Methods for Population Studies	NC	45
MPS F2	Foundation	Social Science Concept and Issues	NC	45
MPS C1	Core	Introduction to Demography and History of Population	4	60
MPS C2	Core	Fertility and Nuptiality	4	60
MPS C3	Core	Mortality, Morbidity and Public Health	4	60
MPS C8	Core	Research Methodology	4	60
MPS E1	Elective	E1.1: Healthcare Systems and Policies E1.2: Introduction to Biostatistics & Epidemiology	**3**	**45**
MPS E2	Elective	E2.1: Concepts and Measures of Global Health E2.2: Population Ageing and Health Transition	**3**	**45**
Viva-Voce Examination (related to courses			**1**	
Total			**23**	**420**
Semester II				
MPS C4	Core	Migration, Spatial Distribution and Urbanization	4	60
MPS C5	Core	Population and Development	4	60
MPS C6	Core	Gender Issues and Reproductive Health	4	60
MPS C7	Core	Population Policies and Programmes	4	60
MPS C9	Core	Advanced Statistical and Computer Applications	4	60
MPS C10	Core	Indirect Estimation Techniques, **Population Projection** and Demographic Models ***(Quality of data and projection are added)***	4	60
MPS E3	Elective	E3.1: Spatial Demography E3.2: Operations Research E3.3: Monitoring and Evaluation	3	45

8. Bertrand Jane T., Robert J. Magnani, Naomi Rutenberg (1994): *Handbook of Indicators For Family Planning Programme Evaluation*, The Evaluation Project, Carolina Population Center, University of North Carolina at Chapel Hill, USA.

Suggested Reading List

1. Peabody, J.W.; Rahman, H. Omar; Gertlor, Paull, J.; Haan, Joyce, (1999): *Policy and Health Implication for Development in Asia*, Cambridge University Press. Cambridge.
2. Peters, David H. Yazbeek Abdo S.; Sharma, Rashmi R.; Ramana G.N.V., (2002): *Better Health Care Systems in India*, World Bank, Washington D.C.
3. United Nations, (1979): "The Methodology of Measuring the Impact of Family Planning Programme on Fertility", Manual IX, *Population Studies*, No.66, New York.
4. United Nations, (1998): *National Population Policies,* Department of Economics and Social Affairs, New York.
5. World Bank, (2006): *World Development Report, 2006*, Oxford University Press, London.
6. World Health Organization, (1978): "Primary Health Care", International Conference on Primary Health Care, Alma Ata, USSR, 6-12, September.

C8 RESEARCH METHODOLOGY (60 Hours)

1. Scientific Methods of Research

Definition of Research, Assumptions, Operations and Aims of Scientific Research. The Research Process: conceptual, Empirical and Analytical Phases of Research: Essentials Criterions of Scientific methods.

2. Research Designs

Observational Studies: Descriptive, explanatory, and exploratory, monitoring and evaluative studies. Experimental Studies: Pre-test design, post-test design, Follow-up or longitudinal design, threat to internal validity. Action research studies, Panel Studies.

3. Methods of Data Collection

Quantitative Methods: Checklist schedules, questionnaire (mail method, interviews through telephone, internet and computers), interview schedule (face-to-face interviews or personal interviews).

Questionnaire/interview schedule design and construction: Principles of constructing a questionnaire/ interview schedule, Types of questions, framing of questions (simple, delicate, personal matter), sequencing of questions.

Qualitative Method: In-depth interviews, key informant interview, observation (participatory and non-participatory), focus group discussion, content analysis, social mapping, social networking, free listing, pile sorting, projective techniques, mechanical devices (camera, tape recorder), mystery client technique, vignettes method.

4. Measurement

Reliability and validity of measurement: Face, content, construct, convergent, concurrent, and predictive validity; Inter-coder reliability, stability, non random and random errors, scaling and composite indices.
Attitude Scales: Point scales, ranking scales, rating scales, limitations of attitude scales,
Types of Scales: Bogardus, Guttman, Likert, Semantic, Thurstone scale.

5. Sampling

Complete enumeration versus sampling.
Concept of sampling unit, sampling frame and sampling design.
Sampling methods: Simple random sampling, stratified sampling, systematic sampling, cluster sampling, and purposive sampling.
Multistage sampling in large-scale surveys, self-weighting designs, Stratification in multistage sampling.
Sampling and non-sampling errors, calculation of weights, sample size determination.

6. Data Collection, processing and analysis

Research ethics; At the level of respondent, community, organization and presentation of results
Fieldwork – interaction with community and respondent.
Editing, coding, data entry, validation & analysis.

7. Writing research proposal and report

Purpose of a proposal/report
Content of proposal/report: Introductory section, methodology adopted, analysis and inferences, summary, conclusion and recommendations.
References/Bibliography, Appendices, Footnotes.

8. Research Methodology Lab-exercise: ANTHROPAC, Atlast Ti and Group Work

Essential Reading List

1. Bernard, H. Russell, (1995): *Research Methods in Anthropology: Qualitative and Quantitative Approaches,* Altamira Press, Walnut Creek.
2. Goode W J and Hatt P K. 1952. Methods in Social Resasrch. McGraw Hills, New York.
3. Kish, Leslie, (1995): *Survey Sampling*, John Wiley and Sons, Inc. New York.
4. Lohr L. Sharaon., (1999): *Sampling: Design and Analysis*, Duxbury Press, London.
5. Lwanga S. K. and Lemeshow S., (1991): *Sample Size determination in Health Studies: A Practical Manual,* World Health Organisation, Geneva.
6. Mukherji, P.N., (1999): *Methodologies in Social Science*, Sage Publications, New Delhi.
7. Pullum W. 2006. An Assessment of Age and Data Reporting in the DHS Surveys, 1985-2003. DHS Methodological Report No. 5. Calverton, Maryland, Marco International Inc.
8. Royce A. Singleton and Bruce C. Straits, (1999): *Approaches to Social Research,* Oxford, Oxford University Press.
9. Young P V. 1994. Scientific Social Surveys and Reasearch. Prentice-Hall, New York (4th Edition).

E3.2	OPERATION RESEARCH METHODS	(45 Hours)

Operations Research in Reproductive Health

1. Definition of OR
(a) What is Operations Research
(b) Focus and Objective of Operations Research
(c) Types and Examples of Operations Research

2. Role of Researchers and Managers

3. Components of OR proposal

4. Identification of Problem and Solution
(a) Identification and Definition
(b) Justification
(c) Alternative Solution
(d) Indicators- Outputs, Outcomes and Impacts

5. Causality (Randomize Experimental Design)
(a) Pretest-Post test Control Group Design
(b) Post test –only Control Group Design
(c) Multiple Treatment Design

6. Quasi/Non-Experimental Design
(a) Non-Experimental Control Design
(b) Time Series, and Before and After Design

7. Inferential Statistics in Operations Research
(a) (X^2, t, F)-tests
(b) Deciding Sample Size in case of Different Experimental Design
(c) Linking Different Design and Statistical Test

8. Study Design Exercises

9. Ethics in Operations Research
(a) ICMR Guidelines
(b) International Perspectives
(c) Case Studies

10. Utilization and Dissemination, and Process Documentation

10. Critiques to OR proposal

M.A./M.Sc. in Population Studies

Rules, Regulations and Syllabus

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M.A./M.Sc. in Population Studies

Rules, Regulations and Syllabus

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MSP-C10 **60 Hours**

RESEARCH METHODOLOGY

Learning objective: The main objective of this course is to impart knowledge and skills on the principals and methods of social science research. The goal of this course is to equip students with the skill to prepare a scientific research proposal and conduct social science research.

I. Scientific Methods of Research

- Definition of Scientific Research: Assumptions, Operations and Aims of Scientific Research.
- Research Processes: Conceptual, Empirical and Analytical.
- Phases of Research: Essential Criteria of Scientific Research Method.

II. Research Design

Observational Studies: Descriptive, explanatory, and exploratory, monitoring and evaluative studies.

Experimental Studies: Pre experimental design, True experimental Design, Pre-test & post-test designs, Follow-up or longitudinal design, Panel Studies.

Threat to internal validity: Reliability and Internal-External validity.

Action research studies.

III. Measurement

Reliability and validity of measurement: Face, content, construct, convergent, concurrent, and predictive validity; Inter-coder reliability, stability, non random and random errors, scaling and composite indices.

Attitudinal Scales: Point scales, ranking scales, rating scales, limitations of attitudinal scales,

Types of Scales: Nominal and Ordinal Scale, Guttmann, Likert, Semantic and Thurstone scales.

IV. Methods of Data Collection

Quantitative Methods: Checklist schedules, questionnaire (mail method, interviews through telephone, internet and computers), interview schedule

(face-to-face interviews or personal interviews), Cross cultural variability and vignettes.

Questionnaire/interview schedule design and construction: Principles of constructing a questionnaire/ interview schedule, Types of questions, framing of questions (simple, delicate, personal matter), sequencing of sections and questions and Interview techniques.

Qualitative Method: Walk through and observation (participatory and non-participatory), Social mapping, key informant interview, In-depth interviews, Focus group discussion, content analysis, free listing, pile sorting, projective techniques, mechanical devices (camera, tape recorder), mystery client technique.

V. Sampling

Complete enumeration versus sampling.

Concept of sampling unit, sampling frame and sampling design.

Sampling methods: Simple random sampling, stratified sampling, systematic sampling, cluster sampling, and purposive sampling.

Multistage sampling in large-scale surveys, self-weighting designs, Stratification in multistage sampling.

Sampling and non-sampling errors, calculation of weights, sample size determination.

VI. Data Collection, processing and analysis

Research ethics; At the level of respondent, community, organization and presentation of results

Fieldwork – interaction with community and respondent.

Editing, coding, data entry, validation, processing & analysis.

VII. Writing research proposal and report

Purpose of a proposal/report

Content of proposal/report: Introduction, Review of Literature, Objectives and conceptual framework, Sources of data, Methods of data collection and analysis, Summary, conclusions and recommendations.

Footnotes, References/Bibliography, Appendices and Glossary

VIII. Research Methodology: Lab-exercise and field work

Application of Atlas Ti and ANTHROPAC in analyzing qualitative data, Group Work- Field practices encompassing application of Research Methods

Reading List

Essential Readings :

1. Bernard, H. Russell, (1995): *Research Methods in Anthropology: Qualitative and Quantitative Approaches,* Altamira Press, Walnut Creek.
2. Goode W J and Hatt P K. 1952. Methods in Social Research. McGraw Hills, New York.
3. Kish, Leslie, (1995): *Survey Sampling*, John Wiley and Sons, Inc. New York.
4. Lohr L. Sharaon., (1999): *Sampling: Design and Analysis*, Duxbury Press, London.
5. Lwanga S. K. and Lemeshow S., (1991): *Sample Size determination in Health Studies: A Practical Manual,* World Health Organization, Geneva.
6. Mukherji, P.N., (1999): *Methodologies in Social Science*, Sage Publications, New Delhi.
7. Pullum W. 2006. An Assessment of Age and Data Reporting in the DHS Surveys, 1985-2003. DHS Methodological Report No. 5. Calverton, Maryland, Marco International Inc.
8. Royce A. Singleton and Bruce C. Straits, (1999): *Approaches to Social Research,* Oxford, Oxford University Press.
9. Young P V. 1994. Scientific Social Surveys and Research. Prentice-Hall, New York (4th Edition).

MSP-E6.1 **45 Hours**

OPERATION RESEARCH IN REPRODUCTIVE HEALTH

I. **Introduction:** What is Operations Research: History, OR in Social Sciences and Health Sciences, Need; Focus and Objective of Operations Research; Types and Recent examples of Operations Research; Successful Examples in Developing and Developed world-(Presentations)

II. **Researchers and Managers-Interface and Roles**: Managers at Different Level (who are those managers); Researchable and Non-researchable problems, Researchers' Role and Responsibilities.

III. **Components of OR Proposal:** Problem statement, Strategies selection, operation definition, Intervention description and design, Sampling, Ethical issues, Data collection and analysis, Utilization, Dissemination and Up-scaling possibilities.

IV. **Identification of Problem and Solution:** Identification and definition, Justification, Alternative Solution, Indicators-Input, Process, Outputs, Outcomes and Impacts, Exercises based on actual situation, Contemporary OR problems

V. **Causality (Randomize Experimental Design):** Random assignment, Matching, Validity, Threat to Validity, Reliability, Pretest-Post test Control Group Design, Post test–only Control Group Design, Multiple Treatment Design, RBD, LBD and Treatment Effects, Preparing a Report on Design used in a few contemporary OR studies

VI. **Quasi/Non-Experimental Design:** Non-Experimental Control Design; Time Series, and Before and After Design, Examples in Different real Situations)

VII. **Inferential Statistics in Operations Research:** X^2, t, F, z-tests, ANOVA and MANOVA, Deciding Sample Size in case of Different Experimental Design, Linking Different, Design and Statistical Test

VIII. Monitoring and Evaluation in Operation Research: Monitoring and Evaluation in OR (Baseline, Concurren and Endline), Logical Framework Approach, Results Based Management, Examples.

IX. Study Design Exercises: Example of different OR studies and discussion on them

X. Ethics in Operations Research: Principals of Research of Ethics, ICMR Guidelines, International Perspectives, NIH-Study Mater Case Studies

XI. Utilization and Dissemination: Conceptual Framework of Utilization, Identifying audience, Developing Media Kit and Policy Brief, Dissemination-Academic and Non-academic activities, Conducting Mock Disseminations Interaction with mangers (local Mumbai or peripheral areas), Field Report Preparation and submission

Reading List

Essential Readings :

1. Brandeau L. Margaret et. al. 2004. Operation Research and Health Care: A Handbook of Methods and Applications, Kulwer Academic Press.
2. Fisher, Andrew A., James R. Foreit, J. Laing, J. Stoeckel and J. Townsend 2002: Designing HIV/AIDS Intervention Studies-An Operations Research Handbook, Population Council, New York.
3. Foreit, James R. and Tomas Frejka 1998: Family Planning Operations Research- A Book of Reading, Population Council, New York
4. Rossi, P.H. et.al. (1993). Evaluation: A Systematic Approach, Sage Publications, London
5. Kish, Leslie 1965: Survey Sampling, New York, John Wiley and Sons.

Capacity Building for a Better Future

RULES, REGULATIONS AND SYLLABUS M.SC. IN BIOSTATISTICS AND DEMOGRAPHY

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Application of epidemiology to identify the cause of disease – Cohort Studies; case-control and cross-sectional studies; nested case-control studies; comparing cohort and case-control studies; deriving inferences from epidemiologic studies.

Analysis of unmatched case-control studies; stratified analysis; effect modification; analysis of matched case-control studies – conditional logistic regression models.

Experimental epidemiology; Randomized trials - end point; surrogate end point; multiple comparison procedures; Bonferroni correction.

Infectious disease epidemiology – introduction; basic concepts; transmission dynamics models; SI, SIS, and SIR models; Kermack- McKendrick threshold theorem; Kermack-McKendrick threshold theorem epidemiology; basic reproductive number (R_0); what determines R_0; endemic vs. epidemic; effective reproductive number (R_t); eradication threshold; other considerations while vaccinating; estimating R_0.

Surveillance of infectious diseases; guiding principles behind surveillance; uses of surveillance; surveillance of HIV/AIDS and malaria surveillance in India.

Ethical and professional issues in Epidemiology.

Meta Analysis – concept, application to bio-medical research, application using real data.

Application of epidemiology to evaluate health services.

Essential Reading List

1. *MacMahon B, Pugh T F*: Epidemiology: Principles and Methods. Boston, Little Brown, 1970.
2. *Gordis L*: Epidemiology, ed. 3. Philadelphia, 2004.
3. *Everitt B S, Pickles A:* Statistical Aspects of the Design and Analysis of Clinical Trials, ed. 2. London, Imperial College Press, 2004.
4. *Leandro G:* Meta-analysis in Medical Research: The Handbook for the Understanding and Practice of Meta-analysis, BMJ Books, Blackwell Publishing, 2005.
5. *Family Health International:* Behavioral Surveillance Surveys. Family Health International, 2000.

MBD-C6	Research Methodology	60 Hours

Goal and Objectives: The main objective of this course is to impart student's knowledge and skills on the principals and methods of social research to be used in epidemiological analysis of various disease, health and injuries. The goal of this course is to equip students with the skill to prepare a scientific research proposal with application of various bio

statistical techniques and skills learnt during the course and also to conduct social science research with the help of hospital data.

This course also presents the fundamentals of quantitative and qualitative methods of data collection and preparation of research instruments for data collection. The course prepares students to design, carry out, report, and present a research projects based on the fieldwork carried out by them. Students learn how to collect data using methods including interviewing, participant observation, social mapping, focus group discussions, key informant interviews, in-depth interviews etc. in a real population. Students further learn how to process and analyze the data using computer software such as ATLAS Ti and Nvivo. The course equips students with conceptual understandings of current academic debates regarding methods of data collection with practical skills to put those methods into practice. Students submit a written report and present their practical work for assessment.

1. **Scientific Methods of Research**
   Definition of Research, Assumptions, Operations and Aims of Scientific Research.
   The Research Process: conceptual, Empirical and Analytical Phases of Research,
   Essentials Criterions of Scientific methods.

2. **Research Designs**
   Observational Studies: Descriptive, explanatory, and exploratory,
   Experimental Studies: Pre-test design, post-test design, Follow-up or longitudinal design, threats to internal validity
   Cohort Studies
   Case Control Studies
   Cross sectional studies
   Monitoring and evaluative studies
   Action research/Intervention studies,
   Panel Studies.

3. **Measurement**
   Reliability and validity of measurement
   Face, construct, concurrent, and predictive validity
   Inter-coder reliability and stability,
   Non random and random errors,
   Reliability and validity of screening and diagnostic tests,
   Concept of Golden Test, Specificity and Sensitivity
   Predictive power of positive and negative test
   ROC Curve and its interpretation
   Scaling and composite indices,
   Attitude Scales: Point scales, ranking scales, rating scales, limitations of attitude scales,
   Types of Scales: Bogardus, Guttman, Likert, Semantic, Thurstone scale.
   Use of standards in measurements
   Gold standards for measuring biomarkers in field settings

4. **Writing research proposal and report**
   Purpose of a proposal/report
   Content of proposal/report

Critical review of research report and journal article
Introductory section, methodology adopted,
Development of research tools
Protocol preparation
Analysis and inferences,
Summary, conclusions and recommendations.
References/Bibliography,
Appendices,
Footnotes.

5. Research Ethics

Ethics of Research,
History of ethical guidelines and general principles
Informed consent and human subject protection
ICMR ethical guidelines for biomedical research on human participants
The Biomedical research on human subjects -regulation, control and safeguards

6. Sampling

Complete enumeration versus sampling.
Concept of sampling unit, sampling frame and sampling design.
Sampling methods: Simple random sampling, stratified sampling, systematic sampling, cluster sampling, and purposive sampling.
Multistage sampling in large-scale surveys, self-weighting designs, Stratification in multistage sampling.
Sampling and non-sampling errors, calculation of weights, sample size determination.

7. Methods of Data Collection – Quantitative and qualitative

Quantitative Methods: Questionnaire (mail method, interviews through telephone, internet and computers), interview schedule (face-to-face interviews or personal interviews).

Questionnaire/interview schedule design and construction: Principles of constructing a questionnaire/interview schedule, Types of questions, framing of questions, sequencing of sections and questions and Interview techniques

Qualitative Method: Walk through and observation (participatory and non-participatory), Social mapping, key informant interview, In-depth interviews, Focus group discussion, content analysis, free listing, pile sorting, mechanical devices (camera, tape recorder)

8. Data Collection - Field work

9. Data processing and analysis, research report

10. Presentation of research report

Essential Reading List

1. Bernard, H. Russell, (1995): *Research Methods in Anthropology: Qualitative and Quantitative Approaches,* Altamira Press, Walnut Creek.
2. Goode W J and Hatt P K. 1952. Methods in Social Research. McGraw Hills, New York.
3. Mukherji, P.N., (1999): *Methodologies in Social Science*, Sage Publications, New Delhi.
4. Royce A. Singleton and Bruce C. Straits, (1999): *Approaches to Social Research,* Oxford, Oxford University Press.
5. Young P V. 1994. Scientific Social Surveys and Research. Prentice-Hall, New York (4th Edition).
6. Pullum W. 2006. An Assessment of Age and Data Reporting in the DHS Surveys, 1985-2003. DHS Methodological Report No. 5. Calverton, Maryland, Marco International Inc.
7. Royce A. Singleton and Bruce C. Straits, (1999): *Approaches to Social Research,* Oxford, Oxford University Press.

MBD-C7	Sampling Techniques in Health & Demographic Surveys	60 Hours

Concept of population and sample, need for sampling, sample survey verses census, elementary units, sampling units, assumptions of sampling from finite population, sampling frame, selection and inclusion probabilities, probability and non-probability sampling, concept of sampling mechanism and sampling design.

Simple random sampling with and without replacement, concept of unequal probability sampling with and without replacement.

Stratified random sampling, sample allocation methods, gain due to stratification, determination of strata boundaries, number of strata, allocations for multiple characteristics.

Concept of systematic sampling, comparison with simple random sampling, variance estimation, comparison with stratified random sampling, systematic sampling, selection procedure for fractional interval, circular systematic sampling.

Use of auxiliary information, ratio and regression methods of estimation under simple random sampling, bias, mean square error, and ratio and regression estimators in stratified random sampling.

Simple random cluster sampling for equal size and unequal size clusters, gain in efficiency of cluster sampling, concept of multi stage sampling, two stage equal probability sampling

Wagstaff, Adam & van Doorslaer, Eddy, 2000. "Chapter 34 Equity in health care finance and delivery," Handbook of Health Economics, in: A. J. Culyer & J. P. Newhouse (ed.), Handbook of Health Economics, edition 1, volume 1, chapter 34, pages 1803-1862 Elsevier

Recommended journals:

1. Journal of Health Economics
2. Health Economics
3. The Lancet
4. Health Policy and Planning

MBD E-6.2	Operations Research	45 Hours

1. Definition of OR
   (a) What is Operations Research
   (b) Focus and Objective of Operations Research
   (c) Types and Examples of Operations Research
2. Role of Researchers and Managers
3. Components of OR proposal
4. Identification of Problem and Solution
   (a) Identification and Definition
   (b) Justification
   (c) Alternative Solution
   (d) Indicators- Outputs, Outcomes and Impacts
5. Causality (Randomize Experimental Design)
   (a) Pretest-Post test Control Group Design
   (b) Post test –only Control Group Design
   (c) Multiple Treatment Design
6. Quasi/Non-Experimental Design
   (a) Non-Experimental Control Design
   (b) Time Series, and Before and After Design
7. Inferential Statistics in Operations Research
   (a) (X^2, t, F)-tests
   (b) Deciding Sample Size in case of Different Experimental Design
   (c) Linking Different Design and Statistical Test
8. Study Design Exercises
9. Ethics in Operations Research
   (a) ICMR Guidelines
   (b) International Perspectives
   (c) Case Studies
10. Utilization and Dissemination, and Process Documentation
11. Critiques to OR proposal

Essential Reading List

1. Fisher, Andrew A., James R. Foreit, J. Laing, J. Stoeckel and J. Townsend 2002: Designing HIV/AIDS Intervention Studies-An Operations Research Handbook, Population Council, New York.
2. Foreit, James R. and Tomas Frejka 1998: Family Planning Operations Research-A Book of Reading, Population Council, New York
3. Kish, Leslie 1965: Survey Sampling, New York, John Wiley and Sons.

MBD E-6.3	Monitoring and Evaluation	45 Hours

1. **Introduction to Monitoring and Evaluation:** Basic concepts, Difference between Monitoring and Evaluation; Linkage between Planning, Monitoring and Evaluation; Importance of Monitoring and Evaluation

2. **Monitoring and Evaluation Framework**: Resources for monitoring and evaluation, Engagement of stakeholders in monitoring and evaluation; Meaning of Indicators, Ideal requirement, process of developing indicator, illustration of indicators developed from large scale surveys, measurement, need & levels of indicator; Challenges in developing indicators from Large-Scale Surveys; Types of Indicators – Input, Process, Output, Outcome, Impact; Capacity building for monitoring and evaluation

3. **Monitoring of Policy Implementation**: Components of policy and programme, budget, staff, process of evaluation, developing tangible indicators for policy monitoring in terms of Input, Process, Output, Outcome, Impact; Result based inference

4. **Evaluation Design:** Determination of sample size under different approaches and design including measurement of change due to certain interventions; Quasi Experiment design, Case control design, Evaluation Terms of Reference-Formative and Summative Evaluations, Managing Evaluations; Evaluation at different points: Baseline, Mid-point, Concurrent and End line evaluation; Evaluating for results: Need and Uses of evaluation, Principles, norms and standards for evaluation; Roles and responsibilities in evaluation; Randomization, Statistical design of Randomization; Randomized control trials, time dependant cluster design, interrupted time series analysis.

5. **Assuring the Quality of Evaluation Design and Methodology**: Overview; Defining the context; The evaluation purpose; Focusing the evaluation; Evaluation methodology; Mandatory requirements for programme; SWOT analysis of NHM, ICDS and National Livelihood Mission; Social audit – meaning, objectives, advantage, case study of social audit

International Institute for Population Sciences
(Deemed University)
Mumbai

M.Phil. and 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
Deonar, Govandi Station Road, Mumbai 400 088
Website: http://www.iipsindia.org

ANNEXURE- I

M1	ADVANCED RESEARCH METHODOLOGY	60 Hours

Objective: The aim of introducing this paper is to develop skills in different types of research methods applicable in the field of population studies. The whole course has been divided into four major parts. The focus will be given on sampling design, data collection and analysis techniques in the both quantitative and qualitative studies in the field of population. In this paper, students will also be given one-week orientation on how to write scientific report and research paper. It intends to build the capacity of students in terms of developing a full fledge research proposal for various social setting and analysis of units.

A. Sampling

1. Determination of Sample size under different designs and cost.
2. Estimation of population means and proportion, standard error, general issues in variance estimation.
3. Sampling and Non-sampling errors.
4. Sampling Frames: Sampling from perfect and imperfect frames.
5. Multistage sampling, purpose of stratification, choice of primary sampling unit, determining sample allocation in primary sampling units.
6. Probability proportion to size, selection, unequal probability of selection, estimation of sample weights, design weights, weights for unit non-response and post stratification.
7. Sampling of large scale demographic surveys (Design, Sample Size, and Content): DHS, WFS, NFHS, RCH, BSS, MICS, NSSO, IDHS etc.
8. Willingness-to-Pay (WTP) Surveys
9. Ethical Issues

B. Qualitative Data Collection Analysis

1. Systematic methods of qualitative data
2. Free listing, pile sorting and ranks analysis by ANTHROPAC package.
3. Focus group discussions and in-depth interview–thematic analysis and coding by ATLAS TI.
4. Social Networking, Synchronization of qualitative and quantitative data

C. Quantitative Data Analysis

1. Path Analysis: Path models with interaction and Non-linearity.
2. Multiple classification analysis: Basic concepts, assumptions of MCA model, unadjusted and adjusted values, unadjusted and adjusted R with suitable illustration, MCA with interactions and control variables
3. Factor Analysis and Principal Components: Basic Concepts, assumptions and Illustration of factor analysis with suitable illustrations.
4. Multinomial Logit Regression: The basic form of the multinomial logit model, presentation of results, interpretation of coefficients.
5. Discriminent Analysis.
6. Multilevel Analysis and its application
7. Willingness-to-pay survey.

D. Developing Research Proposal and Scientific Writing

1. Scientific Writing Week
2. To Developed a Research Proposal

Reading List

1. **Dillon, W. R. and Goldstein, M.**, (1984). *Multivariate Analysis,* John Willey and Sons, New York.
2. **Gujarati, D.N. and Sangeetha** (2007). *Basic Econometrics* (Fourth edition), Tata Mcgraw Hill, New Delhi
3. **Kalton, Graham,** (1983). *Introduction to Survey Sampling,* Sage Publications, Beverly Hills, London.
4. **Kish, L.** (1995)***:*** *"Survey Sampling"*, John Wiley and Sons, INC, New York.
5. **Murthy, M.N.** (1997): *Sampling Theory, and Methods,* Statistical Publishing Society, Calcutta, India.
6. **Retherford, Robert D. and Choe, Minja Kim.,** (1993): *Statistical Models for Casual Analysis,* John Willey and Sons, Inc. New York.
7. **Schenshul, S.L, J.J. Schenshul and M.D. LeCompte** (1999), Essential Ethnographic Methods, Altamira Press, New York.

OTIONAL PAPERS

M3-A	FERTILITY AND REPRODUCTIVE RIGHTS	60 Hours

Objective: The purpose of this course is to provide advance knowledge in the area of fertility and reproductive rights. Students will get acquitted with new and advanced method of fertility analysis. An emphasis is also given on existing theories of fertility and their critical review. In 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 Need.

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

Online Training Programme on
"Qualitative Research Methods in Demography and Health"
23 - 28 November, 2020

The International Institute for Population Sciences (IIPS) is pleased to announce a 6-days online short term training programmeon"Qualitative Research Methods in Demographic and Health Research". The training programme is scheduled to be held during **23 – 28 November 2020**.

Objectives:

Qualitative Research Methods provides much richer, in-depth information, which often is helpful in gaining insights into subtle nuances of human behaviour. It is especially effective in obtaining culturally specific information, viz. values, opinions, behaviors, social contexts, etc. which has relevance in understanding as well as explaining health and demographic outcomes. The short term training programme envisages to provide knowledge about the various tools and techniques of qualitative methods and their application in demographic and health research.

Contents:

Day 1: Overview of Qualitative Research: Definition, Purpose, Scope of Qualitative Research; Difference between Qualitative & Quantitative Research; Qualitative Research Design; Sample Size & Sampling Methods for Qualitative Research: Purposive, Quota & Snowball Sampling.
Day 2: Ethical considerations in Qualitative Research, Importance of Research Ethics in Qualitative Research, Codes & Policies in Research Ethics, Fundamental Ethical Principles, Informed Consent; Designing Qualitative Research Tools / Guidelines; Data Collection Techniques (Skills of Interviewer / Ways to Probe); Data Documentation & Management; Ensuring quality of qualitative data.
Day 3: Qualitative data collection techniques (with exercise): In-depth Techniques (Group discussion, Focus group discussion, In-depth interview, Key informant interview & Case Study).
Day 4: Systematic techniques (Free listing, Pile sorts, Delphi techniques); Participatory Techniques (Participatory Rapid Appraisal, Focused Ethnographic Studies, Social Mapping, Body Mapping).
Day 5: Observation: Participant & Non-participant; Vignettes; Mystery Client; Content analysis; Meta-analysis; Social network analysis.
Day 6: Analysis of Qualitative data using software package- Atlas.ti.

Eligibility:

This online training programme is envisaged for researchers in the field of social sciences who are interested in gaining insights into the various tools as well as techniques of Qualitative Research Methods as well as its applications in the field of demographic and health research. However, preference would be given to early career researchers in various social science disciplines who intend to acquire knowledge in the various qualitative tools and techniques for their research work.

Seats available: 35

Application deadline: 4th November, 2020.

Fees: Rs. 5,000/- (Rupees Five Thousand only). The IIPS has a few scholarships for the deserving candidates. The shortlisted candidates will be communicated for payment of training fee.

Please write to Short Term Training Programme cell if you have any query at: shortterm@iips.net

Application submission: Please fill out this Google form to submit your application in the training programme:

https://forms.gle/nKsDJREEvtTNabE47

विज्ञान संस्थान
(विश्वविद्यालय समतुल्य)*
परिवार कल्याण मंत्रालय, भारत सरकार का स्वायत्त संगठन
गोवंडी स्टेशन रोड, देवनार, मुंबई - 400 088. भारत

(स्थापना / Established in 1956)
बेहतर भविष्य के लिए क्षमता निर्माण
Capacity Building for a Better Future

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डॉ. एफ. राम / DR. F. RAM
निदेशक एवं वरिष्ठ प्रोफेसर / DIRECTOR & Sr. PROFESSOR

OFFICE ORDER

In order to maintain standard and to take care of ct
activities of IIPS a committee of the following membe

1. Prof. Shiva Raju .....
2. Prof. Vibhuti Patel .....
3. Dr. Anuja Gulati .....
4. Ms. Sushma Bansal .....
5. Prof. S.K. Singh .....
6. Prof. R. Nagarajan .....

After the first meeting a representative of t

Search...

International Institute for Population Sciences

Deemed University

(An Autonomous Organization of Ministry of Health & Family Welfare, Government of India)

Institutional Review Board

At IIPS, the Institutional Review Board (IRB) reviews and approves research involving human subjects. The committee ensures that research involving humans is conducted according to the legal, institutional and professional ethical guidelines.

MEMBERS OF THE INSTITUTIONAL REVIEW BOARD OF IIPS

Prof. Vibhuti Patel
Chairperson

Dr. S.K. Singh
Member
Professor,
Department of Mathematical Demography & Statistics,
IIPS, Deonar,
MUMBA – 400 088.

sksingh[at]iips[dot]net

022-42372415

022-25563257

Dr. R. Nagarajan
Member
Professor - M.A., M.Phil., Ph.D. (Bharathiar University)

nagarajan[at]iips[dot]net

022-42372620
022-25563257

Dr. Lalita Savardekar
Member

Prof. Gajanan Velhal
Member

Mr. S.S. Sapre
Member

Mr. Raju Chauhan
Member

Mr. Vinod Joshi
Member

Above board members are looking the ethical issues of Institute projects and foreign students'projects on biomedical research on human subjects. A separate committee is formulated to look the ethical guidelines of Indian Ph.D. students who are doing biomedical research on human subjects.
The Indian Council of Medical Research (ICMR) has published detailed guidelines on the composition and responsibilities of IRBs and established ethical guidelines for biomedical research on human subjects (Published in 2006). IRB at Institute is following the same rules and regulations as suggested by ICMR.

Tenders
ICT Unit/ Data Centre
RTI
Gender Amity Committee
Annual Report
Privacy Policy
FAQ

Page Updated : 25/10/2020 | Visitors : 494404

अन्तर्राष्ट्रीय जनसंख्या विज्ञान संस्थान
(विश्वविद्यालय समतुल्य)*
स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार का स्वायत्त संगठन
गोवंडी स्टेशन रोड, देवनार, मुंबई - 400 088. भारत

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बेहतर भविष्य के लिए क्षमता निर्माण
Capacity Building for a Better Future

क्रम सं./Sr. No.: 19-20/ 2724

International Institute for Population Sciences
(Deemed University)*
An Autonomous Organization of Ministry of Health & Family Welfare, Govt. of India
Govandi Station Road, Deonar, Mumbai - 400 088. INDIA

No. /IIPS/IRB/ / /2020
Date: 22.09.2020

Institutional Review Board

Chairperson
Prof. Vibuti Patel,
SNDT

Convener
Prof. S.K.Singh, IIPS

Members

Prof. Gajanan Velhal,
KEM Hospital

Prof. R Nagarajan
IIPS

Dr. Lalita Savardekar
NIRRH

Mr. S.S. Sapre
NGO Representative

Mr. Raju Chauhan
Community Representative

Shri Vinod Joshi
Advocate

Protocol title: "A study of Federations of Senior Citizen Association in India"		
Principal Investigator: Prof. K.S. James, Dr. Deepti Govil and Dr. Harihar Sahoo		
Name & Address of Institution: International Institute for Population Sciences		
New review ☒	Revised review ☐	Expedited review ☐
Date of review (D/M/Y): 15th September, 2020		
Decision of the IRB:		
☒ Recommended	☐ Recommended with suggestions	
☐ Revision	☐ Rejected	
Suggestions:		

Please note :

- **Inform IRB immediately in case of any adverse events and serious adverse events.**
- **Inform IRB in case of any change of study procedure, site and investigator.**
- **Members of IRB have right to monitor the pretesting procedure with prior intimation.**

Prof. Vibuti Patel,
Chairperson of IRB

दूरभाष / Telephone : 91-22-4237 2400
कार्यालय / Office : 91-22-255 3254 / 55
निदेशक / Director : 91-22-2556 2062
ई-मेल / E-mail: director@iips.net
फैक्स / Fax: 2556 3257
वेबसाइट/ Website : www.ipsindia.org

अन्तर्राष्ट्रीय जनसंख्या विज्ञान संस्थान **International Institute for Popul**
(विश्वविद्यालय समतूल्य) (DEEMED UNIVERSITY)
के प्रशासनिक नियंत्रण के अधीन स्वायत्त संगठन
An autonomous organization under administrative control of Ministry of Health & Family Welf
गोवंडी स्टेशन रोड, देवनार, मुंबई Govandi Station Road, Deonar, Mumbai 400 088.
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apacity Building for a Better Future
Ph: 022 423724
Fax: 022 25563
website: www.iips

No. D
Dated:

OFFICE ORDER

The Student Research Ethics Committee (SREC) is reconstituted to go thr proposals of Ph. D students and give ethical clearance with following as its mem

Prof. S.K. Singh
Prof. Chander Shekher
Dr. Archana Roy
Dr. Pralip Kumar Narazary
Dr. Reshmi R.S.

The committee is requested to review the proposals of Ph.D student clearance and issue certificate. The tenure of the Committee will be for two yea issue of this order.

The undersigned acknowledges with appreciation the excellent work Arokiasamy, Prof. Balram Paswan, Prof. H. Lhungdim, Dr. Dhananjay Bans Chattopadhyay, Dr. Dipti Govil and Dr. Sarang Pedgaonkar.

(Pro
Officiating Directo

Minutes of the SREC meeting conducted on 27th April 2023

The Student Research Ethics Committee (SREC) met on 27th April 2023, to review the SREC applications submitted by students namely (i) Daisy Saikia (ii) MrBadal Santhoshrao Thool (iii) Ms Puja Das (iv) Chandrima Paul (v) Nirmal Singh (vi)Anandi Shukla (vii) Venkutulu Cheiro (viii) Venkata Raja Malla

The following are the status of the application and the specific comments and suggestions to students:

1. **Daisy Saikia : approved**
    - In page 7, point 12 (e), the student may add a few references which has been already carried out
    - Explain the design for inclusion of special schools/health institutions
    - Only parent's consent will not be sufficient, separate consent form for schools or institutions should be prepared so that in charge of school/institution can give their consents to treat students/ parents as subjects of the study
    - Researcher has mentioned that there are potential harm or risks to the children included in the study, but didn't mention about the mitigating strategy
    - 13 a and b, researcher mentioned that there are some risks, but in point 13, overall risk is mentioned as *no risk, please check this*
    - The age group mentioned in 17 h is 2- 15 years, but 5 to 15 would be better age group for this study, as it is difficult to identify at the age of 2 years
    - How to identify severity of the disease in this case to be included for the study
    - In key informant interviews, questions should be made open ended rather than going for Yes or No question

2. **Badal Thool- Approved**
    - Subject's age is mentioned 7 years and above. But in case of children aged 7-14 parental consent will be required. Researcher has not given any consent from parents of children less than 5 years.

    - Translate consent form : Consent form has to be modified by including risks and benefits.
    - As per the protocol for child protection, researcher cant' interview child aged 12 years and less, how will you justify this?

3. **Chandrima Paul- Approved**

- Consent form should be translated to local language
- 11(f) is incomplete
- References used in the abstract is not given
- Q.26, it has been mentioned that no question is referred from any sources. Whether the researcher is sure about this

4. **Anandi Shukla – Approved**

Consent form has to be translated to local language

5. **Nirmal Singh – Approved**

- Please specify the exclusion criteria, the one which is specified in the application form is refusal, not exclusion criteria
- Consent form should be translated to local language
- The age group given in 17 (h) is 18 to 60 years, if elderly is also included in the study, it should also be included in item no 17 (f) vulnerable subjects

6. **Puja Das– Approved**

- There is no information given in the application whether equipment will be caliberating for each and every respondent before taking the measurement
- There is no mention about how to mitigate the risk from the equipment especially in the context of Covid-19
- Translation of consent form has to be done, consent form has to be revised by adding the potential risk, voluntary participation d information about guide's e mail ID and phone number
- Benefit can be given by revealing height, weight, BMI etc to the respondent, this may be included in the application
- In item 14, please categorise whether it is epidemiological or behavioural study
- In the category of vulnerable subject, please include children as you are including below 18 as well

7. **Venkutulu Chiero – Not approved**

- Inclusion and exclusion crtieria- The inclusion and exclusion criteria given in the application are inappropriate
- The mother's age mentioned in the application is 0-54 years which is inappropriate
- In point 12 (f), it has been mentioned that there are no studies carried out, which needs to be corrected

- Potential benefits should be modified
- In consent form, it is to be mentioned that whether the respondent agrees or disagrees for interview
- The consent form should be translated to local language
- The committee further suggested that researcher may also distribute brochures or pamphlets to severely and moderately malnourished children

Resubmit the form after modification

8. **Venkata Raja Malla – not approved**

- Inclusion and exclusion criteria should be modified precisely
- Please resubmit the application in prescribed form

All students must ensure that Covid-19 protocol including the status of vaccination is included in the application

-sd-

Reshmi R S
Convener
SREC Committee

(Dr. P. Murugesan)
Academic Section

INTERNATIONAL INSTITUTE FOR POPULATION SCIENCES, MUMBAI PHD STUDENTS CONCEPT NOTE STATEMENT – 2022-23

Sr. No	Student's Name	Ph.D Title	Guide's Name	Advisory Committee	Remarks
1	Tapas Dey	Family Formation in India: Agrarian Perspectives	Prof. K. S. James	1.Prof. T. V. Shekher 2.Dr. Manas Pradhan	1.Title should be changed. 2. Research questions and objectives may be re-worked. 3. Data sources needs to be changed and methodology needs to re-written.
2	Roni Sikdar	Low Fertility and Its Adversity Towards the Reproductive Health of Women	Prof. Dhananjay W. Bansod	1.Prof. U. S. Mishra 2.Dr. Dipti	1.Objectives needs to be focused rather than taking wide range of issues. 2. Title should be Low Fertility and its Implications for Women, 3. According to new title frame the research questions and objectives needs to revised.
3	Manideepa Mahato	Adolescent Health and Vulnerabilities: A Study of Waste Pickers in Mumbai	Dr. Pradeep Salve	1. Dr. Srinivas Goli 2.Dr. Archan Kujur	1. Research question should be written explicitly and profiling of parents should not be the part of the study. 2. For the quantitative study the age of the respondent should be 15-24 instead of 10-19. 3. Qualitative technic may be developed for the comparison of age group 10-19 and 15-24. 4. The word Mental Health needs to be changed. The word Well-being may be use for the research purpose.
4	Anil Kumar Pal	A Study of Elderly living in Old Age Homes and Kinship set–up in Eastern Uttar Pradesh	Dr. Dipti Govil	1.Prof. Dhananjay W Bansod 2.Dr. Harihar Sahoo	1. Re-organized research questions focusing on only old age home with reference to qualitative data.
5.	Jaymangal Chandra	Perception about Pregnancy Concerns and Migration and Its Association with Utilization of Essential Healthcare Services Among Oraon Tribes in Rural Jharkhand, India	Prof. Nagdeve	1.Prof. K. C. Das 2. Dr. Manas Pradhan	1. Title should be change as " Migration and Its Implication of Oraon Tribes in Rural Jharkhand, India

Dr. P. Murugesan
Academic Section

Sudarshan Badhra
AR Academic

Prof. S. K. Singh
Ph.D Coordinator

Prof. K. S. James
Director & Senior Professor

अन्तर्राष्ट्रीय जनसंख्या विज्ञान संस्थान
(विश्वविद्यालय समतुल्य)*
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बेहतर भविष्य के लिए क्षमता निर्माण
Capacity Building for a Better Future

No.IIPS/ACAD/SREC/ DS/IO- /2023
Date: 19-05-2023

SREC Ethical Clearance Certificate

Thesis/ Dissertation title: Cerebral Palsy in Children: A mixed-methods study in Assam
Name of the Student : Ms. Daisy Saikia **M.Phil/ Ph.D** : Ph. D. **Name of the guide** : Dr. Manas Ranjan Pradhan
Name & Address of Institution: International Institute for Population Sciences
New review ☐ Revised review ☐ Expedited review ☐
Date of review (D/M/Y):
Decision of the SREC: Recommended ☐ Recommended with suggestions ☐ Revision ☐
Suggestions:

Please note:

- **Inform SREC immediately in case of any adverse events and serious adverse events.**
- **Inform SREC in case of any change of study procedure, site and investigator.**
- **Members of SREC have right to monitor the pretesting procedure with prior intimation.**

— sd —

Prof. S. K. Singh,
Chairperson of SREC