

revised



GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY
University School of Architecture and Planning
SECTOR 16C, DWARKA, NEW DELHI-110078

The revised Scheme of Examination for Ph.D. (Architecture and Planning) Course work is as under:

Subject/ Subject Code	Credits	Classes			Theory			End Sem Viva/ Voice		
		Lecture	Studio	Total	INT.	EXT.	Total	INT.	EXT.	Total
First Year										
Research and Publication Ethics (Ph.DiCT102) NUES	02	02	00	02	-	-	100	-	-	-
Coursework to be opted (preferably at Ph.D and/Masters level USAP/ USS duly approved by SRC	02	02	00	02	25	75	100	-	-	-
Research Methodology (PHDAP101)	04	04	00	04	25	75	100	-	-	-
Review of Literature and Seminar (PHDAP102)	02	00	02	02	-	-	-	25	75	100
Total	10	08	02	10						

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Course Code: PHDAPI01
Subject: RESEARCH METHODOLOGY

Lecture	Studio	Marks of sessional work		Total marks	Credits
		Internal	External		
04	0	25	75	100	04

COURSE OBJECTIVES

To enable the candidate to contribute in producing new knowledge and ideas, new theories, methods and finding solutions within the subject area.
To evaluate the limitations in the current knowledge situations in the subject area.

Course outcome

Co-1 To demonstrate the knowledge process
Co-2 To identify, explain and compose and prepare the key elements of a research proposal
Co-3 To compare and contrast qualitative and quantitative research paradigm

Unit I: Research in Architecture and Planning

Research in Architecture and Planning: Meaning, Nature, scope, need and process of research, its importance and scope, classifications, Research Design formulation, Components of Research Design

Research Paradigms and Strategies: Various systems of inquiry-Dichotomous, Continuous, Tripartite Frameworks- their ontological and epistemological assumptions and standards of quality; Overview of different research strategies relevant to research in built environment.

Research Methods: Qualitative; Historic-interpretive; Co-relational; Logical Argumentation methods and case studies and combined strategies - their basic assumptions; Strengths and weaknesses of different methods.

Identification of methods, tools and techniques and data requirements for different type of researches in Architecture and Planning

Unit II: Data Collection

Identification of probable data sources, Questionnaire/Schedule designing, Interview and observation methods, Sampling Design, Measurement Scales, reliability and validity measurements, Pilot study, methods of data collection

Unit III: Data Analysis

Data Preparation: Editing, Coding, Content Analysis and Tabulations, Data analysis, Hypothesis Testing (overview of different para-metric and non-parametric methods), Computers in Data preparation and analysis Architecture and Planning, Various statistical tools and techniques, application of software for different researches.

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Unit IV: Technical Report Writing

Role of report writing, technical report writing, various components of technical reports for different purpose, their intergradient and constructions, Presentation style, referencing, bibliography, ethical research and use of copyright data.

NOTE: Detailed teaching program to be made and circulated to the students at the commencement of the semester

Note II: Usage of S.P.S.S. (Statistical Package will be mandatory).

Reading List: (to be amplified by the subject teacher)

Adams, G. R., &Schvaneveldt, J. D. (1991). Understanding research methods. Addison-Wesley Longman Ltd. Assael, H., &Keon, J. (1982).Non-sampling vs. sampling errors in survey research. Journal of Marketing, 46(2),114-123.

Cooper, H. M. (1998). Synthesizing research: A guide for literature reviews (Vol. 2). Sage.

Didow Jr. N. M., &Franke, G. R. (1984). Measurement issues in time-series research: Reliability and validity assessment in modeling the macroeconomic effects of advertising. Journal of Marketing Research, 21(1), 12- 19.

Gibbs, J. P. (Ed.). (1967). Urban research methods. Van Nostrand.

Jackson, B. B., & Bund, B. (1983). Multivariate data analysis: An introduction. Richard d Irwin.

Khanzode, V. V. (1995). Research methodology: Techniques and trends. APH Publishing Corporation.

Labovitz, S. (1968). Criteria for selecting a significance level: A note on the sacredness of. 05. The American Sociologist, 220-222.

Levine, M. S. (1977). Canonical analysis and factor comparison (No. 6).Sage.

Mohsin, S. M. (1984). Research methods in behavioral sciences.Orient Longman.

Ross, R. (1974), "Research :An Introduction", Barnes and Noble Books.

Shaughnessy, J. J., Zechmeister, E. B., &Zechmeister, J. S. (2000). Research methods in psychology.McGraw- Hill.

Torgerson, W. S. (1958). Theory and methods of scaling.

Adams, G. R. &Schvaneverldt, J. (1985). "Understanding Research Methods", Longman, N. Y.

Ross, R. (1974), "Research: An Introduction", Barnes and Noble Books.

Gibbs, J.F. (1988), "Urban Research Methods", (Rev. Ed.) Von Nostrand.

Khanzode, V. V. (1995), "Research Methodology – Techniques and Trends", APH Publishing.

Groat, L. and Wang, D. (2002), "Architectural Research Methods", John Wiley & Sons.

Kothari, C. R. (2004), "Research Methodology – Methods and Techniques", New Age International.

Knight, A. and Ruddock, L., "Advanced Research Methods in Built Environment", John Wiley & Sons.

Instructions to question paper setter

1. Exam shall be of 3 hours duration and of maximum marks:75.
2. Total EIGHT questions are to be set (two questions from each unit), and candidate have to attempt any five questions selecting one from each unit, each question of equal marks each.

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Course Code: PHDAP102
 Subject: REVIEW OF LITERATURE AND SEMINAR

Lecture	Studio	Marks of sessional work	Marks of examination	Total marks	Credits
		Internal	External (End Sem Viva/Voce)		
0	02	25	75	100	02

COURSE OBJECTIVES

A systematic and critical analysis of the literature on the specific topic. To enable the candidate to contribute in producing new knowledge and ideas, new theories, methods and finding solutions within the subject area. To evaluate the limitations in the current knowledge situations in the subject area.

Course outcome

- Co-1 overview of existing literature. To understand the major theoretical approaches in their architectural sub disciplines and the assumptions inflected on research situated within any one approach
- Co-2 To combine theoretical approaches to explain phenomena they intend to study.
- Co-3 To select the theoretical approach that is most applicable and explain why they have selected the perspective

Course Outline

Unit-I

Consulting and reviewing of 50 research papers/ books/ anthologies/ reference books/ Published / unpublished Doctoral Theses / Project Reports etc.

Unit-II

Preparing a concept paper / article / review article and trying to get at least one published Attending and presenting a paper in conference / seminar / workshop

Unit-III

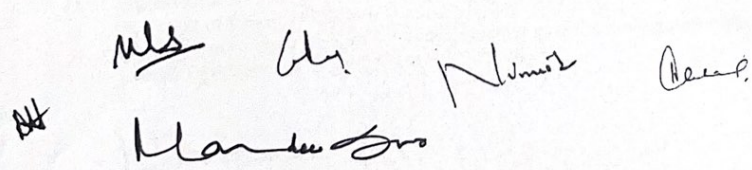
Weekly Presentations / Seminars (The students would be required to make at least one presentation per week on paper / article written or reviewed.

Unit-IV

Compilation and submission of the reviews and other published or presented articles.

Note: Only for PHDAP102 Review of Literature and Seminar Paper

The students shall be evaluated out of 25 marks for the Internal Assessment by the Course Teacher/ Supervisor and out of 75 marks for the End Semester Viva/Voce Examination as per GGSIPU norms.


 A collection of handwritten signatures in black ink, including names like 'Mrs. A. N. N.', 'Manoj', and 'Arun'.

Paper Code: PhDiCT102
Credits: 02

L	T/P	C
1	2	2

Subject: Research and Publication Ethics (NUES)

Maximum Marks: 100

Course Outcomes

CO1: Ethics for Scientific research

CO2: Skills for ethical publication

CO3: Ability to use copyright and self-archiving policies for open access publishing

CO4: Ability to use Journal citation scores and indexing of Databases for academic work

THEORY

Unit-1:

Philosophy and Ethics: Introduction to philosophy: definition, nature and scope, concept, branches.

Ethics: definition, moral philosophy, nature of moral judgments and reactions

Scientific Conduct: Ethics with respect to science and research, Intellectual honesty and research integrity.

scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP), Redundant publications: duplicate and overlapping publications, salami slicing, Selective reporting, and misrepresentation of data

Unit-2:

Publication Ethics: Publications ethics: definition, introduction and importance, Best practices/ standards

setting initiatives and guidelines: COPE, WAME, etc., Conflicts of interest, Publication misconduct:

definition, concept, problems that lead to unethical behaviour and vice versa, types, Violation of

publication ethics, authorship and contributor ship. Identification of publication misconduct, complaints

and appeals. Predatory publishers and journals

Tutorial/Practical

Unit-3:

Open Access Publishing :Open Access Publications and initiatives, SHERPA/ RoMEO online resource to check publisher copyright & Self-archiving policies, Software tool to identify predatory publications developed by SPPU, Journal finder/ journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggested, etc.

Publication Misconduct: Subject Specific ethical issues, FFP, authorship, Conflicts of interest, Complaints and appeals: examples and fraud from India and abroad (Through Group Discussions). Use of plagiarism software like Turnitin, Urkund and other open source software tools (Through Software Tools)

Unit-4:

Databases: Databases Indexing databases, Citation databases: Web of Science, Scopus, Etc. Research

Metrics: Impact Factor of journal as per JourDal Citation Report, SNIP, SJR, IPP, and Cite Score.

Metrics: h-index, g-index, i10 index, altimetric.

References:

- 1) Professional Ethics by R, Subramanian, Oxford Press
- 2) Textbook of Research Ethics by Loue Sana, Springer 2002
- 3) <https://www.springer.com/gp/authors-editors/authorandreviewertutorials/submitting-to-a-journal-and-peer-review/publication-ethics/10285588>

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Course work

One or more subjects of 02 or more credits as duly approved by the SRC shall be opted by student from the courses running at preferably Ph.D. and / Masters Level (at USAP/USS) in Odd or Even Semester.

W.S. '04 Nimesh Desai

~~W.S.~~ Mandavi