Pre-Ph.D. Course 2023

Subject: Education

Paper- I Research Methodology

		Subject: Comm	on for all faculties		
Course Code:		Course Title: Pape	er-I Research Methodology	7	Theory
 Identif Identif Identif Identif research 	y and discuss the role y and discuss the issu y and discuss the com ch design, and implen	plex issues inherent in nenting a research proje	arch. to the research process. selecting a research proble		
CO1. Understar	nd some basic concept	is course, the students sl ts of research and its me nd issues read, compre		articles in	their academic
CO3. Select and	l define appropriate ro	esearch problem and pa	arameters.		
CO4. Organize a	and conduct research	(advanced project) in a	more appropriate manner.		
:05. Write a re	search report and the	esis.			
C O6 . Write a re	search proposal (gran	ts).			
	Credits: 4		Core	e Compuls	ory
Max. Marks: 100 Min. Pass Mark			s:55		
	Total	No. of Lectures-Tutori	al (in hours per week): L- ⁻	Г: 4-1	
Unit	Topics			No. of Lectures <mark>60</mark>	
I	Perception & Definition of Research, Objectives & Motivations of Research, Importance of Research, Types of Research, Research Methods versus Methodology, Process of Research; Review of Literature, Formulation of the Research Problem, Sources and Identification of a Research Problem, Status of the Research Problem, Formulation of Hypothesis, Research Design,		12		
П	Outlines of Synopsis;Project Proposal, Project Report Writing; Research Paper Writing; Components of Research Reports;Thesis Writing:Outlines of Thesis, Reference citing, Formats of Writing References, Bibliography; Plagiarism.			12	
Ш	Intellectual Property (IP), Intellectual Property Rights (IPR), Intellectual Property Law, Different fields of Intellectual Property Rights, Patents, Publication Ethics: Definitions importance Conflicts of Interest,			12	

	Publication Misconduct Definition, Concept, Problems that lead to Unethical Behavior and vice versa, Types Identification of publication misconduct, Complaints and Appeals; Violation of publication ethics, Authorship and Contributorship; Predatory Publishers and Journals.	
IV	Web Browsers, Search Engines, MS Word: Handling Graphs, Tables and Charts, Formatting in MS-Word, MS Power Point: Creating Slide Show, Screen Layout and Views, Applying Design Template, MS Excel: Features, Formulas and Functions.	12
V	Subject Classification Index, Citation, Citation Index, Impact Factor, h- index, i-10index, INFLIBNET, Introduction to Peer Reviewed and Open Access Journals, e-Journals, e-Library, Research Databases, Institute for Scientific Information (ISI) & Journal Citation Reports, Science Citation Index (SCI), Social Sciences Citation Index (SSCI), Arts and Humanities Citation Index (AHCI), Databases: UGC care list,Web of Science (WoS), Scopus.	12
 Suggested Rea Creswell. V Inc., 2018. Gupta. S: F Gupta. S.P Kumar. R: Melville. S. Shortis, T.: Research M Research M Research M Research M Statistical N Research D Information Skills, by Jo 	eld visits., Internship, etc. dings: W.: Research Design, Qualitative, Quantitative and Mixed Methods Approache Research Methodology: Methods and Statistical Techniques, Deep & Deep Pub : Statistical Methods, Sultan Chand &Sons, 2014. Research Methodology: A Step-by-Step Guide for Beginners (3 rd Edition), SA : and Goddard. W.: Research Methodology: An Introduction (2 nd edition),Juta : The Language of ICT: Information and Communication Technology, Taylor & lethodology: Methods and Techniques by C.R. Kothari, Second revised edition lethodology: Methods and Statistical techniques, by Santosh Gupta Methods, by S.P. Gupta esign, Qualitative, Quantitative and mixed method approaches, by W. Creswell a Communication Technology, by Tim Shorts Handbook of Communication an ohn O. Green, Brant Raney Burleson 	lications, 2010. GE, Inc., 2011. A Cademic, 2004. & Francis, 2016. I, 3rd edition. d Social Interaction

Pre-Ph.D. Course 2023

Paper-II - Emerging Trends and Issues in Education

		Subject:	Education	
Course Code:			er-II - Emerging Trends es in Education	Theory paper
•	To acquire kr To develop po To demonstr To demonstr To show suff presentation	ower of critical thinki ate the skill of tool co ate their abilities to di ficient confidence in to of research works.	rging research areas or dimen ng in particular area or issue.	esearch topics
 CO2 CO3 govern CO4 CO5 	Developing ski Inculcating int the Understanding Understanding	ills of standardizing formation about the conduct of res the issues and trend g statistical techniqu	regulations, policies, statu search. ls in Teacher Education.	s and guidelines that
Credits: 4 Core Compulsory			sory / Elective	
Max. Marks: 100 Min. PassMar		Marks:55		
	Total No. o	of Lectures-Tutorial	(in hours per week): L-T-P:	4-0-0
Unit Topics			No. of Lectures (Total sum = 60)	
I Introduction to Approches and New Concepts of Learning	 Interdia Resear Life-Lo Co-ope 	sciplinary approaches - concept , need and scope sciplinary approach in Teaching, Learning and ch ong Learning, Open and Distance Learning erative Learning, Reflective Learning ed Learning, Flexi Space Learning		pe
II Trends in Education	Peace ILife SkMultic	sive Education e Education Skill Education icultural Education Il Constructivism		12
III Issues in Education	Global IWellbei	Value Education Global Policies in Education, EFA, MDGs & SDGs Wellbeing Education Comparative Education		12

	Citizenship Education	
	Economics of Education	
	ICT in Educational Research	
IV Parametric and Non Parametric Tests	 Meaning and purpose of parametric test and non-parametric test Difference between parametric and non-parametric test Analysis of variance technique of "F" test Correlation and it's types t-Test, H-test, Chi-square test, Median test, Sign test, Factor Analysis Analysis of co-variance technique Regression and it's types, Step regression 	12
V Using Data Analysis Software	 Using MS-Excel & "R" for Data Analysis and Pictorial Representation Drawbacks of Using Data Analysis Software Data Entry and Application of SPSS Steps of Computing Descriptive Statistics, Correlation, t- test, ANOVA, Chi-Square, and Regression through SPSS, Interpreting of results from Output Tables in SPSS 	12
Teaching Learn	ing Process: Class discussions/ demonstrations, Power point presentations	tions, Class
activities/ assign	ments, Field visits., Internship, etc.	
Suggested Read	-	
Research Israel, M. (2014). <i>I</i>	J., & Towne, L. (Eds.) (2002). Scientific research in education. Wash Council, National Academy Press. Research Ethics and Integrity for Social Scientists. Beyond Regulatory Compliance, Sage publ., p 2011). Research in Education. New Delhi: PHI Learning Pvt. Ltd	pp.18-19.
Research Israel, M. (2014). <i>I</i> Best, J. &. (2 Blss C, & Hi	Council, National Academy Press. Research Ethics and Integrity for Social Scientists. Beyond Regulatory Compliance, Sage publ., p	^{pp.18-19.} I. <i>ed)</i> ,. Lusaka: Juta
Research Israel, M. (2014). <i>I</i> Best, J. &. (2 Blss C, & Hi Flick, U. (20	Council, National Academy Press. Research Ethics and Integrity for Social Scientists. Beyond Regulatory Compliance, Sage publ., p 2011). Research in Education. New Delhi: PHI Learning Pvt. Ltd gson, C (2004). Fundamentals of Social Research Methods (3 rd o 09). An Introduction Qualitative Research, London: Sage, pp39- (2002). Doing and Writing Qualitative Research. N	^{pp.18-19.} l. <i>ed)</i> ,. Lusaka: Juta 45
Research Israel, M. (2014). <i>I</i> Best, J. &. (2 Blss C, & Hi Flick, U. (20 Hilliday, A Publications James Arthu	Council, National Academy Press. Research Ethics and Integrity for Social Scientists. Beyond Regulatory Compliance, Sage publ., p 2011). Research in Education. New Delhi: PHI Learning Pvt. Ltd gson, C (2004). Fundamentals of Social Research Methods (3 rd o 09). An Introduction Qualitative Research, London: Sage, pp39- (2002). Doing and Writing Qualitative Research. N	^{pp.18-19.} l. ed),. Lusaka: Juta 45 New Delhi: Sage
Research Israel, M. (2014). <i>I</i> Best, J. &. (2 Blss C, & Hi Flick, U. (20 Hilliday, A Publications James Arthu Publ	Council, National Academy Press. Research Ethics and Integrity for Social Scientists. Beyond Regulatory Compliance, Sage publ., p 2011). Research in Education. New Delhi: PHI Learning Pvt. Ltd gson, C (2004). Fundamentals of Social Research Methods (3 rd o 09). An Introduction Qualitative Research, London: Sage, pp39- (2002). Doing and Writing Qualitative Research. N r, M. W. (2013). Research Methods and Methodologies in Educa ications. N. (1979). Foundations of Behavioural Research. New	^{pp.18-19.} l. 45 New Delhi: Sage <i>ution</i> . London: Sage
Research Israel, M. (2014). <i>I</i> Best, J. &. (2 Blss C, & Hi Flick, U. (20 Hilliday, A Publications James Arthu Publ Kelinger, F Publishing C Mark, R. (Council, National Academy Press. Research Ethics and Integrity for Social Scientists. Beyond Regulatory Compliance, Sage publ., p 2011). Research in Education. New Delhi: PHI Learning Pvt. Ltd gson, C (2004). Fundamentals of Social Research Methods (3 rd o 09). An Introduction Qualitative Research, London: Sage, pp39- (2002). Doing and Writing Qualitative Research. N r, M. W. (2013). Research Methods and Methodologies in Educa ications. N. (1979). Foundations of Behavioural Research. New	^{pp.18-19.} l. 45 Vew Delhi: Sage <i>ution</i> . London: Sage York: Wadsworth

Pre-Ph.D. Course 2023

Paper-III- Development and Standardisation of Research Tool

		Subject:	Education	
Course Code:		Course Title: Paper-III- Development and Standardisation of Research Tool		Theory paper
Course Objectiv	es: The main obj	ective of this paper is t	0	
 6. Identify and 7. Identify and 	discuss the issues discuss the compl	ex issues inherent in se	ch tool. The research tool development lecting the appropriate research esearch tool development.	
 CO1 Dess CO2 Und CO3 Exp CO4 Sele CO5 Dev CO6 Edit CO7 Stan 	cribe meaning and erstand various ty lain principles of ct the appropriate	type of research tools in writing the items fo esearch tool. ch tool.	s. for their respective study.	
Credits: 4 Core Compulsory		sory / Elective		
	Max. Marks: 1	00	Min. Pass	Marks: <mark>55</mark>
	Total No	o. of Lectures-Tutorial	(in hours per week): L-T-P: 4-	0-0
Unit		Topics		No. of Lectures (Total sum = 60)
I Research Tool: An Introduction	• Characteri	of Research tools istics of good research tools e and different forms of objective type test items Test Scores		12
II Types of Research Tools	 Basis of cl Different t Types of Checklists 	assifying research tools ypes of tools; their mer tools: Tests, Invento , Rating Scales, Opinio re, characteristics and in	es, 12	
III Research Tool: Preparation and Validation	 Writing of Content va Items Ana Item Difficient 	bjective type test items, Scrutinizing and editing alidity index (CVI) Ilysis Procedure, Pre-Tryout & Final Tryout culty, Discrimination index analysis, Criteria for selection of valid item		12
IV Research Tool: Development and Standardization	 Different r Factors aff Sensitivity 	y and Validity, their meaning methods of establishing reliability and validity fecting Reliability and Validity y to instructional effects (for mastery tests) on of items		12

Procedure		
V		
Researc h Tool: Norms establis hment and Manual Prepara tion	 Test Norms: Meaning & Concept Different types of test norms Their characteristics and computation Conventional terms of Qualitative Research Tool: Dependability, Transferability, Confirmability Preparation of Test Manual 	12
	ing Process: Class discussions/ demonstrations, Power point presentations, C ld visits., Internship, etc.	lass activities/
Repr 2. Kaul, L. (20 Ltd., 3. Best, J. W.	H.E. (1981). Statistics in Psychology and Education (Tenth Ind int),Vails, Feffer & Simmons Ltd. 11). Methodology of Educational Research, Vikas Publishing H Noida and Kahn, J. (1997) Research in Education. (7th ed.) New Dell	louse Pvt.
4. Ansari, M.S	of India Ltd. S. (2007). Essentials of Measurement and Evaluation, Internat se, Meerut	ional Publishing
9. Cohen, L	Louis, Manion, Lawrence and Morrison, Keith (2013). Researc cation, 7th Special Indian Edition, Oxon: Routledge.	h Methods in
•	John W. (2012). Educational Research: Planning, Conducting, and Initiative and Qualitative Research, 4th Edition, New Jersey: Po	•
-	, Fred N. (2014). Foundations of Behavioural Research, 2nd Ec eet Publications.	lition, New Delhi: