SARDAR PATEL UNIVERSITY

Programme: MHRM Semester: II

Syllabus with effect from: December 2015

Paper Code: PA02CHRM10	Total Creditar 2
Title Of Paper: Research Analysis and Application	Total Credits: 3

Unit	Description in detail	Weightage (%)
	Learners Objectives:	
	To acquaint students with methods of conducting systematic inquiry in	
	social science.	
	To equip students with skills and knowledge needed to undertake the	
	research project.	
	• To understand the use of Software in the basic requirement of Research.	
1	Hypothesis:	20 %
	Concept and significance	
	Types of Hypothesis	
	Type I and Type II errors	
	Hypothesis Testing Logic and importance	
2	Sampling:	20 %
	Purpose of sampling	
	Concepts related to sampling – population, universe, sampling frame and	
	sampling unit.	
	Meaning of probability sampling & non-probability sampling	
	Types of probability sampling – Simple Random, Systematic, Stratified & Cluster AND	
	Types of non-probability sampling – Purposive, Accidental, Snowball & Quota	
	Techniques in sample selection	
3	Data Processing, Data Analysis and Use of Statistics:	20 %
	Definition, concept & need of statistics in research	
	Coding, master-sheet, categorisation & tabulation	
	Univariate, bivariate and trivariate analysis of data	
	Measures of central tendency (mean, median, mode) and Dispersion.	
	Level of measurement (nominal, ordinal, interval and ratio)	
	Problems and tests of Reliability and Validity	
	Quantification of qualitative data.	
	Inferential Analysis – Chi-Square Test	
4	Reporting Research	20 %
	Research Proposal	
	Research Synopsis	
	Research Report: Planning outline of Report ,editing for Accuracy and	
	neatness, standard formats for reference, footnotes and bibliography, preparing	
	research abstract Dissemination of research findings	
	Introduction of SPSS in HRM Research	
5	Application of Case Study Methodology:	20 %
	Illustration from field.	

Basic Text & Reference Books:

> Ahuja, Ram, 2001, Methods, Jaipur : Rawat publication



- Alston, M. Bocoles, W., 2003 Research for Social Workers-An Introduction to Methods, Jaipur: Rawat publication
- ➤ Baker, Therese L., 1994, Doing Social Research, Singapore : McGraw Hill
- ➤ Goode, W.J., Hatt, P.K, 1981, Methods in Social Research, Singapore: McGraw Hill
- Grinell, Richard M. (Jr.), 1988, Social Work Research and Evaluation, Illinois F. E. Peacock Pub. Inc.
- > Jacob, K. K., 1965, Methods & Fields of Social Work in India, Bombay: Asia Publishing
- ➤ Kothari, C. R., 2004. 2nd edition reprint) Research Methodology: Methods & Techniques, New Delhi, New Age International
- Krishnaswamy, O. R., 1993, Methodology for Research in Social Science, Himalaya, Bombay
- Laldas, D. K., 2000, Practice of Social Research, Jaipur: Rawat
- ➤ Mikkelsen, Britha, 2005, Methods for Development Work and Research- A New Guide for Practitioners, New Delhi: Sage Publication
- Ramchandran, P., 1968, Social Work Research and Statistics, Bombay : Allied Publishers
- ➤ Rubin, Allen & Babbie Earl, 2001, Research Methods for Social Work, USA: Wadsworth, West, Brooks/Cole and Schirmer
- > Sarantakos, Sotirios, 2005, Social Research, New York : Palgrave Macmillan
- Sharma, B. A. V., Prasad, R. D. & Satyanarayana, 2002, Research Methods in Social Sciences, New Delhi: Sterling
- > Sharma, K. R., 2002, Research Methodology, Jaipur: National Publishing House
- Young, Pauline, 1960, Scientific Social Surveys and Research
- SPSS Package from SPSS Inc.

Research hypothesis

- www.drjayeshpatidar.blogspot.com
- ➤ A hypothesis is a formal tentative statement of the expected relationship between two ormore variables under study. → A hypothesis helps to translate the researchproblem & objectives into a clear explanation or prediction of the expected results or outcomes of the research study. → A clearly stated hypothesis includes the variables to be manipulated or measured, identifies the population to be examined, & indicates the proposed outcome for the study. www.drjayeshpatidar.blogspot.com
- ➤ 'Hypothesis is a tentative prediction or explanation of the relationship between two variables.' It implies that there is a systematic relationship between an independent & a dependent variable. → For example, dietary compliance will be greater indiabetic patients receiving diet instruction in smallgroups than in diabetic patients receiving individualized diet instructions. → Good & Hatt define hypothesis as a shrewd guess or inference that is formulated & provisionally adopted to explain observed facts or conditions & to guide infurther investigation.www.drjayeshpatidar.blogspot.com
- ➤ Hypotheses enables the researcher to objectively investigate new areas of discovery. Thus, it provides a powerful tool for the advancement of knowledge. → Hypotheses provides objectivity to the researchactivity. → It also provides directions to conduct research such as defining the sources & relevance of data. → Hypotheses provides clear & specific goals to theresearchers. These clear & specific goals provide thein vestigator with a basis for selecting sample & research procedures to meet these goals. www.drjayeshpatidar.blogspot.com
- ➤ Hypotheses provides link between theories &actual practical research. → It provides a bridge between theory & reality. → A hypothesis suggests which type of research islikely to be most appropriate. → As it is a tentative statement of anticipatedresults, it guides the researcher towards the direction in which the research should proceed. → It stimulates the thinking process of researcheras the researcher forms the hypothesis byanticipating the outcome.www.drjayeshpatidar.blogspot.com



- ➤ It also determines the most appropriateresearch designs & techniques of dataanalysis. → Hypotheses provides understanding to theresearchers about what expect from theresults of the research study. → It serves as framework for drawingconclusions of a research study. → Without hypotheses, research would be likeaimless wandering.www.drjayeshpatidar.blogspot.com
- ➤ Conceptual clarity:Hypothesis should consist of clearlydefined & understandable concepts. It should bestated in very terms, the meaning & implication ofwhich cannot be doubted. To facilitate the conceptualclarity, hypothesis can be stated in declarativestatement, in present tense. → Empirical referents:Research must have an ultimateempirical referent. No usable hypothesis can embodymoral judgments. A good hypothesis must haveempirical basis from the area of enquiry.www.drjayeshpatidar.blogspot.com
- ➤ Objectivity:Hypothesis must be objective, which facilitates objectivity in datacollection & keeps the research activity freefrom researcher value judgment. → Specificity:It should be specific, notgeneral, & should explain the expected relations between variables. For example, regular yoga reduces stress.www.drjayeshpatidar.blogspot.com
- ➤ Relevant: The hypothesis should be relevant to the problem being studied as well as the objectives of the study. Hypothesis must have relevance with theoryunder test in a research process. → Testability: Hypothesis should be testable & should not be a moral judgment. It must be directly/indirectly observable & measurable. Theresearcher can set up a situation that permits one to assess if it is true or false. It must be verifiable. For example, a statement such as 'bad partners producebad children'. This sort of hypothesis cannot be tested. www.drjayeshpatidar.blogspot.com
- ➤ Consistency:A hypothesis should be consistentwith an existing body of theories, researchfindings, & other hypotheses. It shouldcorrespond with existing knowledge. → Simplicity:A hypothesis should be formulated insimple & understandable terms. It shouldrequire fewer conditions & assumptions.www.drjayeshpatidar.blogspot.com
- Availability of techniques: The researchers must make sure thatmethods are available for testing their proposed hypotheses—Purposiveness: The researcher must formulate only purposeful hypotheses, which has relevance with research problem & objectives.—Verifiability: A good hypothesis can be actually verified in practical terms. www.drjayeshpatidar.blogspot.com
- ➤ Profundity of effect:A good hypothesis should haveprofound effect upon a variety of researchvariables. → Economical:The expenditure of money & the timecan be controlled if the hypothesesunderlying the research undertaken is good.www.drjayeshpatidar.blogspot.com
- > www.drjayeshpatidar.blogspot.com
- ➤ Theoretical or conceptualframeworks: → The most important sources of hypotheses aretheoretical or conceptual frameworks developed forthe study. → Through a deductive approach these hypotheses aredrawn from theoretical or conceptual frameworks fortesting them. → For example, Roy's adaptation Model is used in aresearch study, where a hypothesis can be drawnfrom a concept of the theoretical mode that 'patient'sadaptation to a chronic illness depends onavailability of social support for them.'www.drjayeshpatidar.blogspot.com
- ➤ Previous research: → Findings of the previous studies may be used forframing the hypotheses for another study. → For example, in a small sample descriptive study, are searcher found that a number of patients admitted with coronary artery disease hadincreased body mass index. → In another research study, a researcher may use this finding to formulate a hypothesis as 'Obesepatients have increased risk for development of coronary artery disease'.www.drjayeshpatidar.blogspot.com
- ➤ Real-life experiences: → Real-life experiences also contribute in theformulation of hypotheses for researchstudies. → For example, Newton had a life-changing experience of the falling of an apple &formulated a hypothesis that earth attractsall the mass towards its centre, throughseveral researchers were conducted beforegenerating a law of central gravity.www.drjayeshpatidar.blogspot.com
- ➤ Academic literature → Academic literature is based on formaltheories, empiricalevidences, experiences, observation, &conceptualizations of academicians. → These literatures may serve as goodsources for formulating hypotheses forresearch studies.www.drjayeshpatidar.blogspot.com



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- ➤ Simple & complex hypothesis → Simple hypothesis: It is a statement which reflects the relationship betweentwo variables. For example, 'the lower the level of hemoglobin, thehigher is the risk of infection among postpartumwomen'. → Complex hypothesis: It is a statement which reflects the relationship betweenmore than two variables. For example, 'satisfaction is higher among patients whoare older & dwelling in rural area than those who areyounger & dwelling in urban area'.www.drjayeshpatidar.blogspot.com
- Associative & causal hypothesis
 Associative hypothesis: It reflects a relationship between variables that occurs orexists in natural settings without manipulation. This hypothesis is used in correlational research studies Examples of associative hypothesis prediction Communication skills of healthcare providers & cost of carerelated to the satisfaction of patients Predicts relationship among variables but not the type of relationship www.drjayeshpatidar.blogspot.com
- ➤ Causal hypothesis: It predicts the cause-and-effect relationship betweentwo or more dependent & independent variables inexperimental or interventional setting, whereindependent variable is manipulated by research toexamine the effect on the dependent variable. The causal hypothesis reflects the measurement ofdependent variable to examine the effect of dependent variable, which is manipulated by the researcher(s). For examples, prevalence of pin site infection is lowerin patients who receive pin site care with hydrogenproxidide as compared to patients who receive the pinsite care with Betadine solution.www.drjayeshpatidar.blogspot.com
- ➤ Directional & nondirectional hypothesis → Directional hypothesis: It specifies not only the existence, but also the expected direction of the relationship between variables. Directional hypothesis states the nature of the relationship between two or more variables such aspositive, negative, or no relationship. To express the direction of relationship betweenvariables, the directional terms are used to state the hypothesis such aspositive, negative, less, more, increased, decreased, greater, higher, lower, etc. For examples, 'there is a positive relationship betweenyears of nursing experience & job satisfaction amongnurses.www.drjayeshpatidar.blogspot.com
- Nondirectional Hypothesis: It reflects the relationship between two or morevariables, but is does not specify the anticipated direction & nature of relationship such as positive ornegative. It indicates the existence of relationship between the variables. For example, 'there is relationship between years of nursing experience & job satisfaction among nurses.www.drjayeshpatidar.blogspot.com
- ➤ Null & research hypothesis: → Null hypothesis (H0): It is also known as statistical hypothesis & is used forstatistical testing & interpretation of statisticaloutcomes. It states the existence of no relationship between theindependent & dependent variables. For example, 'there is no relationship between smoking &the incidence of coronary artery disease'. → Research hypothesis (H1): It states the existence of relationship between two ormore variables. For examples, 'there is relationship between smoking &incidence of lung cancer.www.drjayeshpatidar.blogspot.com

