



RAFFLES UNIVERSITY

Japanese Zone, NII-48, Neevrana-301705

Ph.D. Course Work Syllabus

Research Methodology Including Quantitative Methods and Computer Application Paper Code-(Ph.D-101)

Contact Hours: 4 Hrs/ week
Credit: 4

Continuous Assessment: 40 Marks
End Term Exam: 60 Marks

Unit -I

Definition of research: Research -Definition; Concept of Construct, Postulate, Proposition, Thesis, Hypothesis, Law, Principle. Definition and Dimension of a Theory, Functions and Characteristics; Types of Theory: General Theory and Particular/ Empirical Theory. Cases and their Limitations; Causal Relations. Philosophy and validity of research. Objective of research.

Characteristics of research: Various functions that describe characteristics of research such as systematic, valid, verifiable, empirical and critical approach.

Types of research: Pure and applied research. Descriptive and explanatory research. Qualitative and quantitative approaches.

Research procedure: Formulating the Research Problem, Literature Review, Developing the objectives, preparing the research design including sample Design, Sample size.

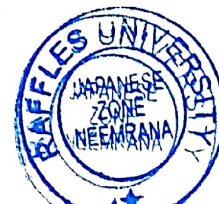
Considerations in selecting research problem: Relevance, interest, available data, choice of data. Analysis of data, Generalization and interpretation of analysis.

Outcome of research: Preparation of the Report on conclusions reached. Testing validity of research outcomes. Suggestions and recommendations, identifying future scope.

Unit-II

Internet introduction, evaluating internet resources: Authority, Accuracy and objectivity. Drier note on e-books and visual library. UGC INFONET, INFLIBNET and ERNET. What is Plagiarism and how to avoid it?

Computer Applications in research: Introduction to spreadsheet application, features and functions, using formulas and functions, data storing, features for statistical data analysis, generating charts/ graph and other features. Tools used may be Microsoft Excel, Open office or similar tool. Introduction to presentation tool, features and functions, creating presentation, customizing presentation, showing presentation. Tools used may be Microsoft Power Point, Open Office or similar tool. Introduction to



Internet based searches, use of advanced search techniques. Presentation, Interpretation And. Report: Writing .Computer applications in research-t Software-SPSS, E-Views, MS-Excel etc

Probability Distribution and Hypothesis Testing: Theoretical: binomial, poisson, F¹⁴ normal, exponential, hyper geometric, uniform distributions. Type I and II error, testing of mean, proportion, tests for equality of mean and variances of two populations, confidence interval, Z test and X² test for goodness of fit, ANOVA (one via classification, Non parametric tests. t-test, U test M E;

Correlation and Regression Analysis: Karl Pearson's and Rank Correlation 10 coefficient, simple linear regression: least squares method, Linear Program solution simplex method, dual, and sensitivity analysis and assessment problems. H m J

Suggested Readings:

1. Kothari, C.R., Research methodology, New Age International (P) Ltd, Publishers, New Delhi.
2. Panncerselvam, R., Research methodology, PHI Learning Pvt. Ltd, New Delhi. Velde, Mandy van der, Jansen, Paul and Anderson, Neil, Guide to management research methods, Blackwell Publishing Ltd.
3. Bhattacharyya, Dipak Kumar, Research methodology, Excel Books, New Delhi.
4. Donald R. Cooper and Pamela S. Schindler, Business Research Methods, Tate Mo Graw Hill, New Delhi
5. Richard I. Levin and David S. Rubin, Statistics for Management, PHI, New Delhi. 9. SP. Gupta, Statistical Methods, 8 Chand & Company
6. Gujarati 85 Sangetha, Basic Econometrics, Tats Me 1 6 _ 0 6 _ 2 O ' 7 1 4 1 2 6





RAFFLES UNIVERSITY

Japanese Zone, NH-48, Neemrana-301705

Ph.D. Course Work Syllabus

Paper-IV Research and Publication Ethics

Paper Code-(Ph.D-104)

Contact Hours: 4 Hrs/ week
Credit: 4

Continuous Assessment: 40 Marks
End Term Exam: 60 Marks

SYLLABUS IN DETAIL

THEORY

RPE 01: PHILOSOPHY AND ETHICS (3hrs)

1. Introduction to Philosophy: definition, nature and scope, concept, branches
2. Ethics: Definition, moral philosophy, nature of moral judgements and reactions.

RPE 02: SCIENTIFIC CONDUCT (5hrs.)

1. Ethics with respect to science and research
2. Intellectual honesty and research integrity
3. Scientific misconducts: Falsification, Fabrication and Plagiarism (FFP)
4. Redundant publications: duplicate and overlapping publications, salami slicing
5. Selective reporting and misrepresentation of data

RPE 03: PUBLICATION ETHICS (7 hrs.)

1. Publication ethics: definition, introduction and importance
2. Best practices/standards setting initiatives and guidelines: COPE, WAME etc.
3. Conflicts of interest
4. Publication misconduct: Definition, concept, problems that lead to unethical behavior and vice versa, types
5. Violation of publication ethics, authorship and contributorship
6. Identification of publication misconduct, complaints and appeals
7. Predatory publishers and journals



PRACTICE

RPE 04: OPEN ACCESS PUBLISHING (4hrs.)

1. Open access publications and initiatives
2. SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies
3. Software tool to identify predatory publications developed by SPPU
4. Journal finder/journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.

RPE05: PUBLICATION MISCONDUCT (4 hrs.)

A. Group Discussions (2 hrs.)

1. Subject specific ethical issues, FFP, authorship
2. Conflicts of interest
3. Complaints and appeals: examples and fraud from India and abroad

B. Software tools (2 hrs.)

1. Use of plagiarism software like Turnitin, Urkund and other open source software tools

RPE 06: DATABASES AND RESEARCH METRICS (7 hrs.)

A. Databases (4hrs.)

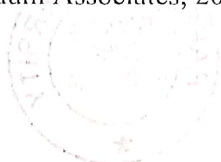
1. Indexing databases
2. Citation databases: Web of Science, Scopus etc.

B. Research Metrics (3hrs.)

1. Impact factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score
2. Metrics: h-index, g index, i10 index, altimetry's

Suggested Readings

1. The Ethics of Teaching and Scientific Research By Miro Todorovich; Paul Kurtz; Sidney Hook.
2. Research Ethics: A Psychological Approach By Barbara H. Stanley; Joan E. Sieber; Gary B. Melton
3. Research Methods in Applied Settings: An Integrated Approach to Design and Analysis By Jeffrey A. Gliner; George A. Morgan Lawrence Erlbaum Associates, 2000
4. Ethics and Values in Industrial-Organizational Psychology By Joel Lefkowitz Lawrence Erlbaum Associates, 2003.





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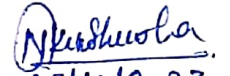
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Date: - 03.10.2023

OFFICE ORDER

The President has been pleased to constitute the Ethics Committee with the following members.

1. Prof. (Dr.) Gadangi Indira	President	Chairman
2. Prof. (Dr.) Ch.MM. Prasad Rao	Offg. Director Research	Convener
3. Dr. Jaspreet Hira	Offg. Dean, SOET	Member
4. Dr. Morajdhwaj Singh	HOD, SOAS	Member
5. Dr. Meenakshi Sharma	Assoc. Prof. SOBAS	Member
6. Dr. Santosh Joshi	Assoc. Prof., SOBAS	Member
7. Dr. Vibha Shrivastava	Asst. Prof., SOL	Member
8. Dr. Deepika	Asst. Prof. SOHSS	Member
9. Mr. Ranjan Kumar Singh	Asst. Prof, SOP	Member


03/10/2023

For REGISTRAR

REGISTRAR
RAFFLES UNIVERSITY
NEEMRANA (RAJ)

Copy forwarded for information and necessary action to: -

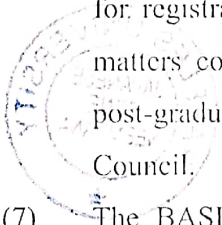
1. Hon'ble Chairperson, Raffles University, Neemrana
2. President, Raffles University, Neemrana
3. Dean Academic Affairs, Raffles University, Neemrana
4. Dean/Principal/HODs, Raffles University, Neemrana
5. Account Officer, Raffles University, Neemrana
6. All the committee members, as above
7. All the Teaching and Non-Teaching Staffs
8. Guard file



According to Chapter – III of Part No. – 2 of Statues of Raffles University, Neemrana, Alwar

BOARD OF ADVANCED STUDIES AND RESEARCHII

- 1. Board of Advanced Studies and Research.-** (1) There shall be a Board of Advanced Studies and Research, hereinafter referred to as the BASR, of the University which shall consist of the following members:-
- (a) The President;
 - (b) Pro-President;
 - (c) Deans of Faculties; and
 - (d) Teachers/experts from outside the University subject to a maximum of five, nominated by the Chairperson as members for a maximum period of two years at a time.
- (2) The BASR shall meet at least once in each Semester. It may lay down its own rules of procedure for its meetings, including rules for participation of special invitees without a right to vote.
- (3) The President shall preside over the meetings of the BASR. In the absence of the President, the Pro-President, shall preside.
- (4) The BASR shall regulate and oversee the formulation and conduct of all Post Graduate, Doctoral and Post Doctoral instruction and all research programmes of the University, in accordance with the directions of the Academic Council.
- (5) The BASR shall consider and may approve (recommendations of the Boards of Studies of Schools on all academic matters within the scope of sub-clause (4) hereof.
- (6) The BASR shall formulate procedure for consideration and approval of proposals for registration for M. Phil/Ph. D. and other doctoral degrees, and for all other matters concerning the supervision and evaluation of research work under such post-graduate and doctoral programmes, and recommend them to the Academic Council.
- (7) The BASR may authorize the President to act on recommendations made by examiners on M. Phil, dissertations and Ph. D. thesis, in accordance with the procedurg laid down in this behalf by relevant Ordinances or Regulations.



- (8) The BASR may recommend to the Academic Council criteria for formulation and execution of research proposals by teachers and/or scholars attached to the University.
- (9) The BASR shall submit its periodic reports to the Academic Council.
- (10) The BASR may make recommendations to the Academic Council on all matters within its scope of its functions.

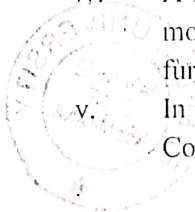


According to section 09 of Ph.D Ordinance of Raffles University, Neemrana, Alwar

COMPOSITION OF SCHOOL RESEARCH COMMITTEE (SRC):

In each subject there shall be a School Research Committee (SRC) as per the provision of Section -10(4) (i) of the University statutes. In each school of the University, academic matters related to the Ph.D. programme shall be supervised by a School Research Committee consisting of the following:

- i. Dean/ Principal of the Faculty: Chairman (Ex-Officio)
 - ii. One Associate Professor/ Assistant Professor by rotation according to seniority: (Ex-officio)
 - iii. One faculty member to be nominated by the President;
 - iv. Two External experts to be nominated by the President
 - v. Director Research as member secretary.
- a. The term of the members of the School Research Committee, except the exofficio members, shall be for three years.
 - b. At least, 50% of the members shall be required to be present in the meeting to form the quorum, with the presence of the Chairman or his/her representative as mandatory.
 - c. Where no teacher in the school is eligible to be the Head, the Teacher-incharge, if eligible to be Research (Ph.D.) Supervisor, shall convene the meetings of the SRC, failing which the members of the SRC may elect one of the members present at the meeting as the Chairperson of the Committee for the said meeting.
 - d. School Research Committee shall have the following responsibilities:
 - i. To review the research proposal and finalize the topic of research;
 - ii. To guide the research scholar to develop the study design and methodology of research and identify the course(s) that he/she may have to do.
 - iii. To periodically review and assist in the progress of the research work of the research scholar.
 - iv. A research scholar shall appear before the School Research Committee once in six months to make a presentation of the progress of his/her work for evaluation and further guidance.
 - v. In case the progress of the research scholar is unsatisfactory, the School Research Committee shall record the reasons for the same and suggest corrective measures.



**According to UGC (Promotion of Academic Integrity and Prevention of Plagiarism in
Higher Educational Institutions) Regulations, 2018) and Plagiarism Policy & Regulation of
Raffles University, Neemrana, 2018**

UNIVERSITY ACADEMIC INTEGRITY COMMITTEE (UAIC)

There shall be a University Academic Integrity Committee for every School whose composition is as below:

- (i) Chairman – President / Vice-Chancellor
- (ii) Member - Senior Most Professor of the concerned School to be nominated by the President.
- (iii) Member - One member nominated by the President from outside the University.
- (iv) Member - A person well versed with anti-plagiarism tools, to be nominated by the President.

The tenure of the committee members including Chairman shall be three years. The quorum for the meetings shall be 3 out of 4 members (including Chairman).

Role and Responsibilities of University Academic Integrity Committee

- i. “The UAIC shall consider the recommendations of the School Academic Integrity Committee.
- ii. The UAIC shall also investigate cases of plagiarism as per the provisions mentioned in these regulations.
- iii. The UAIC shall follow the principles of natural justice while deciding about the allegation of plagiarism against the student, faculty, researcher, and staff of the university.
- iv. The UAIC shall have the power to review the recommendations of SAIC including penalties with due justification.
- v. The UAIC shall send the report after investigation and the recommendation on penalties to be imposed to the President within a period of 45 days from the date of receipt of the recommendation of SAIC/ complaint/initiation of the proceedings.
- vi. The UAIC shall provide a copy of the report to the person(s) against whom inquiry report is submitted”.



SCHOOL ACADEMIC INTEGRITY COMMITTEE (SAIC)

There shall be a School Academic Integrity Committee (SAIC) whose composition shall be as given below:


- a. Chairman – Dean/ Principal/ HOD
- b. Member - Senior academician from outside the school, to be nominated by the President.
- c. Member - A person well versed with anti-plagiarism tools, to be nominated by the Head of the School.

The tenure of the members shall be for two years. The quorum for the meetings shall be 2 out of 3 members (including Chairman).

Role and Responsibilities of School Academic Integrity Committee (SAIC)

- a. “The SAIC shall follow the principles of natural justice while deciding about the allegation of plagiarism against the student, faculty, researcher, and staff.
- b. The SAIC shall have the power to assess the level of plagiarism and recommend penalty (ies) accordingly.
- c. The SAIC after investigation shall submit its report with the recommendation on penalties to be imposed to the UAIC within a period of 45 days from the date of receipt of complaint/initiation of the proceedings”.



Invoice			
INVOICE NO: 2019/EG/1028 DATE: 21-May-19 Customer Information Raffles University NH - 48, Japanese Zone Neemrana Alwar - 301705 Rajasthan Client GST No.: NA			
S.No.	Particulars	Tax rate	Amount
1	URKUND Anti Plagiairism Licenses for a maximum of 1000 Documents with URSA Minor Access		76500
2	IGST @ 18%	18%	13770
TOTAL			90270
Amount in words :Rupees ninety thousand two hundred seventy only.			
E & OE 1. Payment within 10 days from invoice date 2. Cheque to be issued in favor of "eGalactic" 3. HDFC Bank, Account No: 50200032330418 4. IFS Code: HDFC0000223 5. PAN No. AVRPS3430L 6. GST No: 27AVRPS3430L3ZW 7. HSN Code: 998399		FOR eGalactic  Authorised Signatory	

