



UNIT V

Logics: Relations and Functions - Propositions - Precedence, Rules for Operators - Laws of and Equivalence - Matrix and Graph - Graph Notations for Relations - Partitions and Covering- Equivalence Relation - Compatibility Relations

Planning a Thesis - General Format - Page and Chapter Format – Foot Notes - Tables and Figure- References and Appendices

BOOKS FOR STUDY :

1. Kothari C.R.Gaurav Gng. Research Methodology: Methods and Techniques.2nd Edition. New Delhi Age International Publishers, 2019. ISBN: 978-81-224-3623-5 (UNIT I,II,III)
- 2.Saravnavel, P. Research Methodology, Allahabad: Kitab Mahal , 2005.ISBN-81-225-0010-2 (UNIT IV)
3. Dr.S.Lawrence Leve et al. Research Methodology Tools And Techniques. 1st edition. Tiruchirappalli: JAZYM Publication, 2017. ISBN- 978-93-87360-04-4 (UNIT IV)
4. Eliöfence et al. About Computing Science Research Methodology. 2011 .<https://webdocs.cs.ualberta.ca/~c603/readings/research- methods.pdf>. (UNIT V)
5. Leon S.Levy. Discrete Structure of Computer Science, New York: Wiley Eastern Ltd.,1980.

BOOKS / E-RESOURCES FOR REFERENCE

1. L.Arockiam,P.D.Sheba and J.Isac Gnanaraj. Research in a Nutshell. 2nd edition. Tiruchirappalli;St.Joseph's College,2017
2. Ethiram Raza Khan and Human Anwar. Research Methods in Computer Science. 1st edition. University Science Press, 2018.ISBN 978-93-83828-24-1
3. Study Material on Research Methodology . Podicherry Central University
<https://Study Material:pondicherry.edu.in/sites/default/files/Research%20methodology.pdf>

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N. Rajavel
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G. Mettilda Buvanesh
Dr. G. METTILDA BUVANESH
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CAUVERY COLLEGE FOR WOMEN
TRICHIRAPPALLI



Databases : Indexing Databases- Citation Databases: Web of Science, Scopus.

Research Metrics : Impact Factor of Journal as per Journal Citation Report, SNIIP, SJR, IPP, Cite Score- Metrics: h-index, g index, Altmetrics

Books for Study :

1. Bird , A.Philosophy of Science, New York: Routledge 2006.ISBN-9781857285048

2. Chaddah, P. Ethics in Competitive Research : Do not get scooped; Do not get Plagiarized, Indore: UGC-DAE Consortium for scientific Research, 2019, ISBN: 9789387480865. Resnik D.B., what is Ethics in Research & Why is It Important, National Institute Of Health Sciences Terieved from <https://www.nichd.nih.gov/research/resources/bioethics/whatis/index.cfm>.

3. Beall., "Predatory Publishers Are Corrupting open Access." Nature 489 (7415), 2012: 179-179. <https://doi.org/10.1038/489179a>

4. Jeffrey A.Gliner& George A. Morgan. Research Methods in Applied Settings: An Integrated Approach to Design and Analysis. 3rd Edition. New York: Routledge, 2017.ISBN 978-31572-398-2

5. Joan E.Sieber and Martin B. Tolich. Planning Ethically Responsible Research . 2nd Edition. Washington: SAGE Publications,2003.ISBN-978-1-4522-0259-4

6. Kanbadur Muralidhar et al .,Ethics in Science Education, Research and Governance, New Delhi: Indian Social National Science Academy, 2019, ISBN: 978-81-939482-1-7

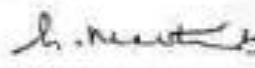
Books For Reference :

1. All E.Shambo and David B.Resnik. Responsible Conduct of Research. 3rd Edition, London. Oxford University Press, 2015. ISBN: 978-0199376025

2. Stanley, Barbara H., Joan E.Sieber, and Gray B. Melton,eds, Research Ethics: A Psychological Approach. Lincoln: University of Nebraska Press,1996. ISBN: 0-8032-4188-7


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COURSE WORK - II

RESEARCH AND PUBLICATION ETHICS

COURSE CODE: 21PHDSW02

CREDITS : 2

LEARNING OUTCOMES:

- i) To study the basics of philosophy of science and ethics, research integrity and publication ethics
- ii) To learn to identify research misconduct and predatory publications

Unit I : PHILOSOPHY AND ETHICS

Introduction to philosophy : Definition- Nature and Scope, Concept and Branches -Ethics: Definition, Moral philosophy , Nature of Moral judgments and Reactions.

UNIT II: 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 III: PUBLICATION ETHICS

Publication Ethics : Definition, Introduction and Importance- Best Practices/Standards Setting Initiatives and Guidelines : COPE,WAME, etc -Conflicts of Interest - Publication Misconduct : Definition, Concept, Problems that leads to unethical behaviour and vice versa, types - Violation of Publication Ethics, Authorship and Contributorship - Identification of Publication Misconduct, Complaints and Appeals - Predatory Publishers and Journals.

UNIT IV : 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 Suggestions Tools viz. JANE, Elsevier Journal Finder, Springer Journal suggested, etc.

UNIT V : PUBLICATION MISCONDUCT

A. Group Discussion : Subject Specific Ethical Issues, FFP, Authorship- Conflicts of Interest- Complaints and Appeals : Examples and Fraud from India and Abroad. B. Software Tools: Use of Plagiarism Software like Turnitin - Urkund and other open Source Software Tools.

Unit VI : DATABASE AND RESEARCH METRICS

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CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

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Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK

9/14/23, 11:51 AM

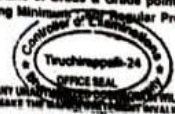
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BHARATHIDASAN UNIVERSITY
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STATEMENT OF MARKS AND GRADES
Examinations of **Ph.D. Graduate** Programmes Under Choice Based Credit System (CBCS)

MAY, 2023

Name of the Candidate RINALDO DE DAVID D		Register No. BDU222064278Q150		Folio No. 01133																														
Degree Ph.D.	Programme MANAGEMENT (Course Work)			Years of Study 2022																														
Centre 42 - CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TIRUCHIRAPPALLI 620 018																																		
Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade/Credit	Result	Month & Year																										
		CIA	ESE	Total Max-100																														
1-PH22RPE	RESEARCH AND PUBLICATION ETHICS	24	62	86	9	A+	2	PASS MAY2023																										
1-PH22HRM	HUMAN RESOURCE MANAGEMENT	24	58	82	9	A+	4	PASS MAY2023																										
1-PH22EI	EMOTIONAL INTELLIGENCE	23	60	83	9	A+	4	PASS MAY2023																										
***** END OF STATEMENT *****																																		
<p>Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 10. DATE: 24-07-2023</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">Current Semester Performance</th> <th colspan="4">Cumulative Performance</th> <th rowspan="2">Performance</th> </tr> <tr> <th>WAM</th> <th>SGPA</th> <th>GRADE</th> <th>CREDIT</th> <th>WAM</th> <th>CGPA</th> <th>GRADE</th> <th>CREDIT</th> </tr> </thead> <tbody> <tr> <td>83.20</td> <td>9.00</td> <td>0</td> <td>10</td> <td>83.20</td> <td>9.00</td> <td>0</td> <td>10</td> <td>-----</td> </tr> </tbody> </table> <p>For details of Grade & Grade point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations. Passing Minimum for Regular Programmes - CIA - 40%, ESE - 40%, and Total - 50% (CIA + ESE)</p>									Current Semester Performance				Cumulative Performance				Performance	WAM	SGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT	83.20	9.00	0	10	83.20	9.00	0	10	-----
Current Semester Performance				Cumulative Performance				Performance																										
WAM	SGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT																											
83.20	9.00	0	10	83.20	9.00	0	10	-----																										


UNIT OFFICER / SECTION HEAD
S. Srinivas
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RESEARCH AND PUBLICATION ETHICS (RPE)

CODE: PH22RPE

CREDIT: 2

HOURS: 3

UNIT – 1: PHILOSOPHY AND ETHICS

Introduction to Philosophy: definition, nature and Scope, Concept, Branches - Ethics: definition, moral philosophy, nature of moral judgements and reaction.

UNIT – 2: 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 – 3: PUBLICATION ETHICS

Publication 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 contributorship - Identification of publication misconduct, complaints and appeals - Predatory publishers and journals.

UNIT – 4: 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 Suggester, etc.,

UNIT – 5: PUBLICATION MISCONDUCT

Group Discussions: Subject specific ethical issues, FFP, authorship – Conflicts of interest – Complaints and appeals: Examples and fraud from India and abroad. Software tools: Use of plagiarism software like Turnitin, Urkund and other open source software tools.



UNIT – 6: DATABASES AND RESEARCH METRICS

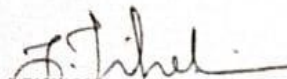
Databases - Indexing databases - Citation databases: Web of Science, Scopus, etc.

Research Metrics - Impact Factor of Journal as per Journal Citation Report, SNIP, SJR, IPP,

Cite Score - Metrics: h-index, g index, i10 index, altmetrics.

Reference:

1. Bird, A.(2006).Philosophy of Science Routledge
2. MacIntyre, Alasdair (1967) A Short History of Ethics. London
3. P.Chaddah, (2018) Ethics in Competitive Research: Do not get Scooped; do not get Plagiarized, ISBN :978-9387480865 National Academy of Sciences,
4. National Academy of Engineering and Institute of Medicine. (2009). On Being a Scientist: A Guide to responsible conduct in Research: Third Edition, National Academies Press.
5. Resnik, D.B.(2011) What is ethics in research & why is it important. National institute of Environmental Health Science, 1-10 Retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm> Beall, J: (2012) Predatory publishers are corrupting open access. Nature, 489(7415), 179-179. <https://doi.org/10.1038/489179a>
6. Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019), ISBN: 978-81-939482-1-7. http://www.insaindia.res.in/pdf/Ethics_Book.pdf.


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RESEARCH AND PUBLICATION ETHICS (RPE)

CODE: PH22RPE

CREDIT: 2

HOURS: 3

UNIT – 1: PHILOSOPHY AND ETHICS

Introduction to Philosophy: definition, nature and Scope, Concept, Branches - Ethics: definition, moral philosophy, nature of moral judgements and reaction.

UNIT – 2: 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.

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Group Discussions: Subject specific ethical issues, FFP, authorship – Conflicts of interest – Complaints and appeals: Examples and fraud from India and abroad. Software tools: Use of plagiarism software like Turnitin, Urkund and other open source research supervision

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CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK

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BHARATHIDASAN UNIVERSITY

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STATEMENT OF MARKS AND GRADES

Ph. D. Examinations of Post Graduate Programmes Under Choice Based Credit System (CBCS) MAY, 2023

Name of the Candidate		Register No.	Folio No.					
SUGANYA A		BDU2220642780144	01134					
Degree	Programme			Years of Study				
Ph.D.	MANAGEMENT (Course Work)			2022				
Centre								
42 - CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TIRUCHIRAPPALLI 620 018								
Sem. Course Code	Course Title	Marks Secured			Grade	Grade/Credit	Result	Month & Year
		CIA	ESE	Total Max-100				
1-PH22RPE	RESEARCH AND PUBLICATION ETHICS	22	60	82	9	A+	2	PASS MAY2023
1-PH22HRM	HUMAN RESOURCE MANAGEMENT	24	61	85	9	A+	4	PASS MAY2023
1-PH22KMP	KNOWLEDGE MANAGEMENT PRACTICES	24	59	83	9	A+	4	PASS MAY2023
***** END OF STATEMENT *****								

Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 10.
DATE: 24-07-2023

Current Semester Performance				Cumulative Performance				Performance
WAM	SGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT	
83.60	9.00	0	10	83.60	9.00	0	10	-----

For details of Grade point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations. Passing Marks for Postgraduate Programmes - CIA - 40%, ESE - 40%, and Total - 50% (CIA + ESE)



ANY UNAUTHORIZED CORRECTION WILL MAKE THE MARKS STATEMENT INVALID

UNIT OFFICER / SECTION HEAD

CONTROLLER OF EXAMINATIONS

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BUSINESS RESEARCH METHODS

Code: (PH20BRM) **Credit: 4**
Hours: 3

UNIT 1
Introduction : Nature and Importance of research, The role of business research, aims of social research, research process, pure research vs. applied research, qualitative research vs quantitative research, exploratory research, descriptive research and experimental research, ethical issues in business research. Research Process – Types of Research –Defining Research Problem – Formulation of Hypothesis – Testing of Hypothesis.

UNIT 2
Data Base: Discussion on primary data and secondary data, tools and techniques of collecting data. Methods of collecting data. Sampling design and sampling procedures. Random Vs. Nonrandom sampling techniques, determination of sample size and an appropriate sampling design. Designing of Questionnaire –Measurement and Scaling – Nominal Scale – Ordinal Scale – Interval Scale – Ratio Scale – Guttman Scale – Likert Scale – Schematic Differential Scale.

UNIT 3
Survey Research and data analysis: media used to communicate with respondents, personal interviews, telephone interviews, self-administered questionnaires, selection of an appropriate survey research design, the nature of field work, principles of good interviews and field work management. Editing – Coding – Classification of Data – Tables and Graphic Presentation, Preparation and Presentation of Research Report.

UNIT 4
Statistical Inference & quality control: Tests of Hypothesis, Introduction to Null hypothesis vs alternative hypothesis, parametric vs. non-parametric tests, procedure for testing of hypothesis, tests of significance for small samples, application, T-test, Chi Square test. Statistical Quality Control Upper quality charts p charts LCL UCL, BAR CHARTS. Attribute charts and industrial applications.

UNIT 5
Multivariate Analysis: Nature of multivariate analysis, classifying multivariate techniques, analysis of dependence, analysis of interdependence. Bivariate analysis-tests of differences-t test for comparing two means and z-test for comparing two proportions and ANOVA for complex experimental designs.

References:

1. Navdeep and Gupta : "Statistical Techniques & Research Methodology", KalyaniPublishers
2. WillamG.Zikmund, Adhkari: "Business Research Methods", Cengage Learning, NewDelhi, 2013.
3. S.Shajahan: "Research Methods for management", JAICO Publishing House, NewDelhi, 2009.
4. UWE FLICK: "Introducing Research Methodology", SAGE, New Delhi,2012.
5. Cooper R.Donald and Schindler S. Pamela: "Business Research Methods", 9/e, TataMCGraw Hill, New Delhi.
6. M.V.Kulkarni: "Research Methodology", Everest Publishing House, New Delhi, 2010

J. Thirumal

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V. Vijayaraj

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CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION - III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK

BHARATHIDASAN UNIVERSITY
(Re-accredited with "A" Grade by National Assessment and Accreditation Council (NAAC))
TIRUCHIRAPPALLI - 620 024, TAMILNADU, INDIA
STATEMENT OF MARKS AND GRADES
Examinations of Post-Graduate Programmes Under Choice Based Credit System (CBCS)

AUGUST 2021
FOLIO No.: PG/E/0012438

Name of the Candidate: **GANDBAPU S. SRINIVAS MURTHY** Register No.: **2020642778527**
 Degree: **Ph.D.** Programme: **MANAGEMENT (Course Work)** Years of Study: **2020**
 Centre: **42- CAUVERY COLLEGE FOR WOMEN TIRUCHIRAPPALLI - 620 018**

Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Month & Year
		CIA	ESE	Total Max-100					
1-PH20SCM	SUPPLY CHAIN MANAGEMENT	22	62	84	8.5	D+	4	PASS	AUG2021
1-PH20SM	STRATEGIC MANAGEMENT	22	63	85	8.5	D+	4	PASS	AUG2021
1-PH20RPE	RESEARCH AND PUBLICATION ETHICS	21	64	85	8.5	D+	2	PASS	AUG2021
1-PH20BRM	BUSINESS RESEARCH METHODS	22	64	86	9.0	D++	4	PASS	AUG2021
***** END OF STATEMENT *****									

Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 14.
 Passing Minimum: CIA-40%; ESE-40% and 50% in Total (CIA+ESE).

Current Semester Performance				Cumulative Performance				Classification
WAM	GPA	GRADE	CREDIT	WAM	GPA	GRADE	CREDIT	
85.00	8.64	D++	14	85.00	8.64	D++	14	---

For Details of Grade & Grade point, see Annexure. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
 Passing Minimum - For Regular Programmes - CIA - 40%, ESE - 40% and Total - 50% (CIA + ESE)
 - For Distance Programmes - ESE - 40% and Total - 50% (CIA + ESE)
 DATE: 03-08-2023

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Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



BUSINESS RESEARCH METHODS

Code: (PH22BRM)

Credit:4

Hours: 3

UNIT I INTRODUCTION

Business Research – Definition and Significance – the research process – Types of Research –Exploratory and causal Research – Theoretical and empirical Research – Cross –Sectional and time –series Research – Research questions / Problems – Research objectives – Research hypotheses –characteristics – Research in an evolutionary perspective – the role of theory in research.

UNIT II RESEARCH DESIGN AND MEASUREMENT

Research design – Definition – types of research design – exploratory and causal research design –Descriptive and experimental design – different types of experimental design – Validity of findings –internal and external validity – Variables in Research – Measurement and scaling – Different scales –Construction of instrument – Validity and Reliability of instrument.

UNIT III DATA COLLECTION

Types of data – Primary Vs Secondary data – Methods of primary data collection – Survey Vs Observation – Experiments – Construction of questionnaire and instrument – Types of Validity –Sampling plan – Sample size – determinants optimal sample size – sampling techniques – Sampling methods.

UNIT IV DATA PREPARATION AND ANALYSIS

Data Preparation – editing – Coding –Data entry – Validity of data – Qualitative Vs Quantitative data analyses – Applications of Bivariate and Multivariate statistical techniques, Factor analysis, Discriminant analysis, Cluster analysis, Multiple regression and Correlation, Multidimensional scaling –Conjoint Analysis – Application of statistical software for data analysis.

UNIT V REPORT DESIGN, WRITING AND ETHICS IN BUSINESS RESEARCH

Research report –Types – Contents of report – need for executive summary – chapterization – contents of chapter – report writing – the role of audience – readability – comprehension – tone – final proof – report format – title of the report – ethics in research – Ethics in research – Subjectivity and Objectivity in research.

REFERENCES :

1. Donald R. Cooper, Pamela S. Schindler and J K Sharma, Business Research methods, 11th Edition, Tata Mc Graw Hill, New Delhi, 2012.
2. Alan Bryman and Emma Bell, Business Research methods, 3rd Edition, Oxford University Press, New Delhi, 2011.
3. Uma Sekaran and Roger Bougie, Research methods for Business, 5th Edition, Wiley India, New Delhi, 2012.
4. Panneerselvam. R, Research Methodology, 2nd Edition, PHI Learning, 2014.

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Principal
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ASSISTANT PROFESSOR
RESEARCH GUIDE
DEPARTMENT OF HUMAN RESOURCE MANAGEMENT
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CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK



BHARATHIDASAN UNIVERSITY


(Accredited with A+ Grade by NAAC in the Third Cycle)
TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.

Ph.D. **STATEMENT OF MARKS AND GRADES** AUG. 2022

Examinations of Post-Graduate Programmes Under Choice Based Credit System (CBCS)

Name of the Candidate PRASANNA E		Register No. BDU2120642779631		Folio No. 0634					
Degree PH.D.		Programme MANAGEMENT (Course Work)		Years of Study 2021					
Centre 42 - CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TIRUCHIRAPPALLI 620 018									
Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Month & Year
		CIA	ESE	Total Max-100					
1-PH22BRM	BUSINESS RESEARCH METHODS	24	61	85	9	A+	4	PASS	AUG2022
1-PH22RPE	RESEARCH AND PUBLICATION ETHICS	23	58	81	9	A+	2	PASS	AUG2022
1-PH22BM	BEHAVIORAL FINANCE	23	63	86	9	A+	4	PASS	AUG2022
1-PH22IAPM	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	22	67	89	9	A+	4	PASS	AUG2022
***** END OF STATEMENT *****									
<p>Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 14. DATE: 22-09-2022</p>									
Current Semester Performance				Cumulative Performance				Performance	
WAM	SGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT		
85.85	9.00	0	14	85.85	9.00	0	14	-----	

For details of Grade & Grade point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
Passing Minimum for Post-Graduate Programmes - CIA - 40%, ESE - 40% and Total - 50% (CIA + ESE)



ANY UNAUTHORISED ALTERATION WILL MAKE THE MARKS STATEMENT INVALID

UNIT OFFICER / SECTION HEAD

CONTROLLER OF EXAMINATIONS

Annamalai Nagar, Tiruchirappalli - 620 018, Tamil Nadu, South India.

Website : cauverycollege.ac.in Phone : 0431 - 2763939, 2751232 Fax : 0431 - 2751234

Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



Department of Commerce

Course Code: PH19RM

RESEARCH METHODOLOGY

UNIT I
Research: Meaning – Purpose and Types – Steps in Research – Selection and Formulation of a research problem - Review of Literature.

UNIT II
Research Design- Meaning and types(Case Design and Survey Design) – Sampling- Meaning, Methods and applications – Sampling techniques and Design – Sample size and Sampling errors

UNIT III
Data Collection- Methods and , Sources; Techniques questionnaire and Interview schedule; Pre testing – Pilot Study – Data Processing : Meaning, Steps,- Analysis of data – Interpretation of data through SPSS – Correlation – Partial and multiple – Regression – Partial and Multiple - Time series analysis (Problem and Theory)

UNIT IV
Hypothesis – Concept, steps, sources – testing of hypothesis – Chi – Square Test, 't' test, 'z' test, 'F' test and ANOVA - One way and two way classification (Problem and Theory)

UNIT V
Report Writing: Types of reports – contents of report – style of reporting – Steps in drafting reports - Footnotes and bibliography writing; checking Plagiarism

Books Recommended:

1. Kothari C.R., "Research Methodology Methods and Techniques" (New Delhi : New Age International).
2. Krishnaswamy O.R. & Renganathan M. "Methodology of Research in Social Sciences", (New Delhi : Himalaya Publishing House)
3. Ravilochanan P, "Research Methodology" (Chennai : Margham Publications)
4. Pauline V. Young, "Scientific Social Surveys and Research" (New Delhi : Prentice Hall of India P. Ltd)
5. Patten Chetty, "Research Methodology" (Coimbatore : Rainbow Publications).
6. Saravanel P, "Research Methodology" (Agra : Kidap Mahal)

S. Shameem 5-12-19
Dr.S.SHAMEEM,M.Com.,MBA.,M.Phil.,SET.,Ph.D.,
Research Advisor & Associate Professor
PG & Research Department of Commerce
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Dr. M. Sirajudeen
Dr. M. SIRAJUDEEN
M.Com., M.Phil., M.B.A., M.Phil., Ph.D.,
NET, SET, PGDCA., DCHT, M.A. (Eng)
Assistant Professor of Commerce
JAMAL MOHAMED COLLEGE (Autonomous)
TIRUCHIRAPPALLI - 620 020

V. Josephine
Dr. V. Josephine Lourdes De Rose
Research Advisor
Assistant Professor in Commerce
Holy Cross College (Autonomous)
Trichy-2.



CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)


NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK



BHARATHIDASAN UNIVERSITY

(Re-accredited with "A" Grade by National Assessment and Accreditation Council (NAAC) JANUARY 2021)
TIRUCHIRAPPALLI - 620 024, TAMILNADU, INDIA

Ph.D. STATEMENT OF MARKS AND GRADES FOLIO No.: PGE 0050910

Examinations of Post Graduate Programmes Under Choice Based Credit System (CBCS)

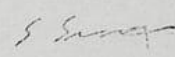
Name of the Candidate PRAVEENA S		Register No. 008045	
Degree Ph.D.	Programme COMMERCE (Course Work)		Years of Study 2019
Centre 42 - CAUVERY COLLEGE FOR WOMEN TIRUCHIRAPPALLI - 620 018			


Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Session / Year
		CIA	ESE	Total Max-100					
1-PH19RM	RESEARCH METHODOLOGY	22	45	67	7.0	A+	4	PASS	JAN2021
1-PH19MM	MARKETING MANAGEMENT	22	47	69	7.0	A+	4	PASS	JAN2021
1-PH19CB	CONSUMER BEHAVIOUR	22	51	73	7.5	A++	4	PASS	JAN2021
***** END OF STATEMENT *****									

Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 12. Passing Minimum: CIA-40%; ESE-40% and 50% in Total (CIA+ESE).

Current Semester Performance				Cumulative Performance				Classification
WAM	GPA	GRADE	CREDIT	WAM	GPA	GRADE	CREDIT	
69.66	7.16	A++	12	69.66	7.16	A++	12	---

For Details of Grading System, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examination.
 Passing Minimum: For Post Graduate Programmes - CIA - 40%, ESE - 40% and Total - 50% (CIA + ESE)
 For Undergraduate Programmes - ESE - 40% and Total - 50% (CIA + ESE)
 DATE: 24-02-2021


 UNIT OFFICER / SECTION HEAD


 Principal
 Cauvery College for Women
 (Autonomous)
 Annamalai Nagar,
 Tiruchirappalli - 620 018

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Annamalai Nagar, Tiruchirappalli - 620 018, Tamil Nadu, South India.

Website : cauverycollege.ac.in Phone : 0431 - 2763939, 2751232 Fax : 0431 - 2751234

Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



RESEARCH METHODOLOGY

SUB CODE: PH19RM

Objective:

The primary objective of this course is to develop a research orientation among the scholars and to acquaint them with fundamentals of research methods.

UNIT-I FOUNDATION OF RESEARCH

Meaning and Nature and Research- Types of Research-Exploratory ,Descriptive, and casual research, Experimental- Formation of Research problems and Hypotheses- Identification of variables- Review of existing Literature and research design.

UNIT-II MEASUREMENT AND SAMPLING

Measurement scales- nominal scale,ordinal scale,ratio scale,criteria for good measurement, attitude measurement, likert's scale, comparative rating scale, non comparative rating scale-Ranking and rating scales-sampling: Types, frames,unit,sampled size and sampling errors-methods of sampling-random sampling and non-random sampling.

UNIT-III METHODS OF DATA COLLECTION-QUANTITATIVE METHODS

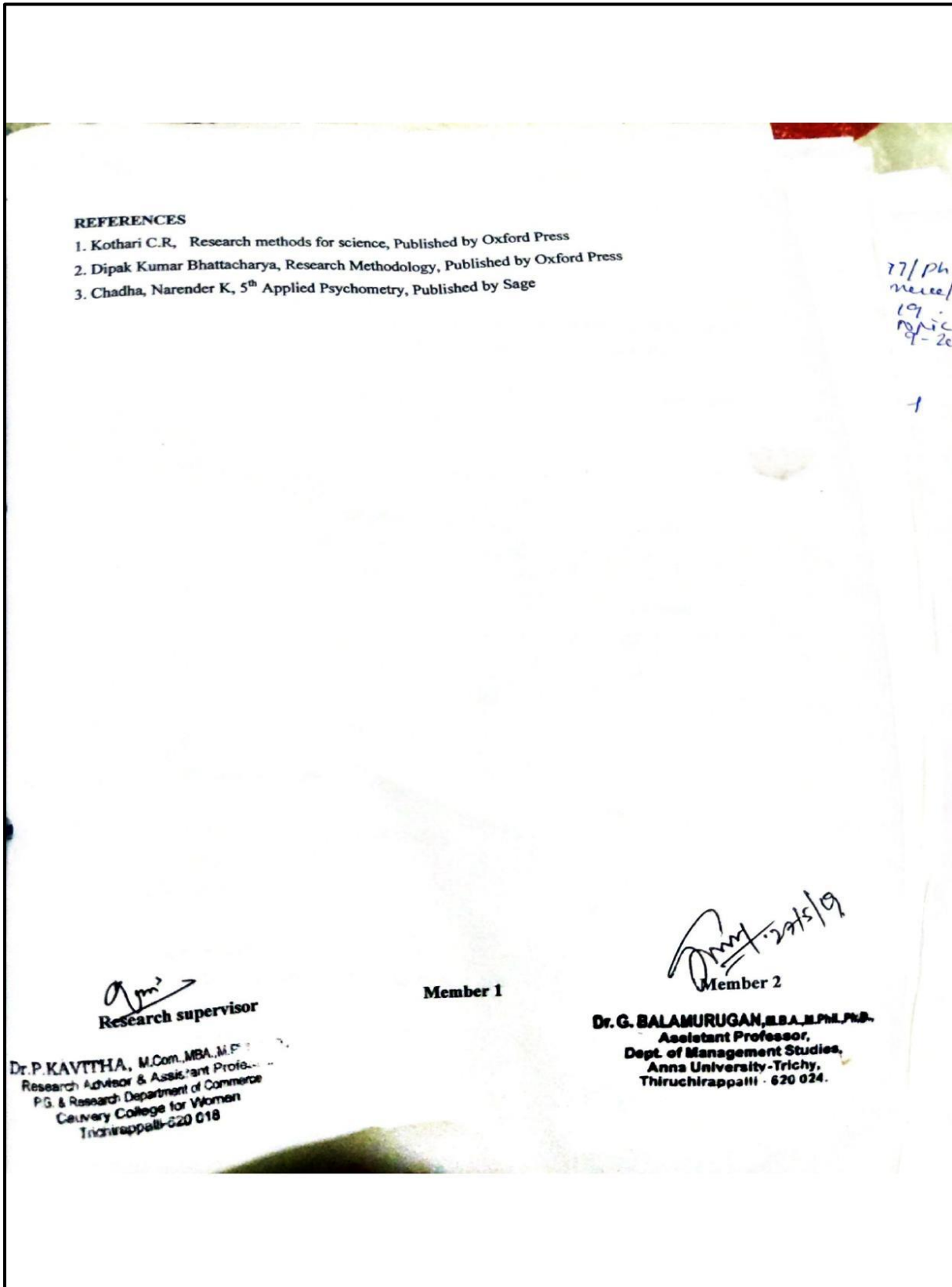
Field study- Experimental methods- Survey and web survey methods- Development of scales/Questionnaire/schedules/Test- Formulation of question and their testing- Reliability and validity.

UNIT-IV METHODS OF DATA COLLECTION-QUALITATIVE METHODS

Observational methods-focus group discussions-case studies-content analysis-content and narrative

UNIT-V RESEARCH REPORT

Report writing-Intellectual property reporting-structure of thesis-Testing of plagiarism-Ethical issues in research.





CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK

BHARATHIDASAN UNIVERSITY
(Re-accredited with "A" Grade by National Assessment and Accreditation Council (NAAC) TIRUCHIRAPPALLI - 620 024, TAMILNADU, INDIA
STATEMENT OF MARKS AND GRADES
Examinations of ~~Post-Graduate~~ **Post-Graduate** Programmes Under Choice Based Credit System (CBCS).

OCTOBER 2019
FOLIO No. PG/VE 0033911

Name of the Candidate: **VANITHA G** Register No. **011197**

Degree: **Ph.D.** Programme: **COMMERCE (Course Work)** Years of Study: **2019**


Centre: **42 - CAUVERY COLLEGE FOR WOMEN TIRUCHIRAPPALLI - 620 018**

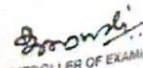
Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Month & Year
		CIA	ESE	Total Max-100					
1-PH19M	MARKETING	24	55	79	8.0	D	4	PASS	OCT2019
1-PH19GM	GREEN MARKETING	24	56	80	8.0	D	4	PASS	OCT2019
1-PH19RM	RESEARCH METHODOLOGY	24	51	75	7.5	A++	4	PASS	OCT2019
***** END OF STATEMENT *****									

Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 12. Passing Minimum: CIA-40%; ESE-40% and 50% in Total (CIA+ESE).

Current Semester Performance				Cumulative Performance				Classification
WAM	GPA	GRADE	CREDIT	WAM	GPA	GRADE	CREDIT	
78.00	7.83	D	12	78.00	7.83	D	12	---

For Details of Grade & Grade point, see overleaf, AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
 Passing Minimum for ~~Post-Graduate~~ **Post-Graduate** Programmes - CIA - 40%, ESE - 40% and Total - 50% (CIA + ESE)
 For CDE Programmes - ESE - 40% and Total - 50% (CIA + ESE)
DATE: 25-11-2019


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 UNIT OFFICER / SECTION HEAD


 CONTROLLER OF EXAMINATIONS

Annamalai Nagar, Tiruchirappalli - 620 018, Tamil Nadu, South India.

Website : cauverycollege.ac.in Phone : 0431 - 2763939, 2751232 Fax : 0431 - 2751234

Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



RESEARCH AND PUBLICATION ETHICS (RPE)

Course Code: PH23RPE

Credits: 2

Hours: 3

UNIT – 1: Philosophy And Ethics

Introduction to Philosophy: definition, nature and Scope, Concept, Branches - Ethics: definition, moral philosophy, nature of moral judgements and reaction.

UNIT – 2: 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 – 3: Publication Ethics

Publication 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 contributorship - Identification of publication misconduct, complaints and appeals - Predatory publishers and journals.

UNIT – 4: 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., Elsevierjournal Finder, Springer Journal Suggester, etc.,

UNIT – 5: Publication Misconduct

Group Discussions: Subject specific ethical issues, FFP, authorship – Conflicts of interest – Complaints and appeals: Examples and fraud from India and abroad. Software tools: Use of plagiarism software like Turnitin, Urkund and other open source software tools.

UNIT – 6: Databases And Research Metrics

Databases - Indexing databases - Citation databases: Web of Science, Scopus, etc. Research Metrics - Impact Factor of Journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score - Metrics: h-index, g index, i10 index, altmetrics.

Reference:

1. Bird, A.(2006).Philosophy of Science.Routledge
2. MacIntyre, Alasdair (1967) A Short History of Ethics. London
3. P.Chaddah, (2018) Ethics in Competitive Research: Do not get Scooped; do not getPlagiarized, ISBN :978-9387480865 National Academy of Sciences,
4. National Academy of Engineering and Institute of Medicine. (2009). On Being aScientist: A Guide to responsible conduct in Research: Third Edition, National Academies Press.
5. Resnik, D.B.(2011) What is ethics in research & why is it important. National institute of Environmental Health Science, 1-10 Retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm> .Beall, J: (2012) Predatory publishers are corrupting open access. Nature, 489(7415), 179-179. <https://doi.org/10.1038/489179a>
6. Indian National Science Academy (INSA), Ethics in Science Education, Research andGovernance (2019), ISBN: 978-81-939482-1-7. http://www.insaindia.res.in/pdf/Ethics_Book.pdf.

J. T. Selvi
 Dr. J. TAMILSELVI, MBA, M.Phil., Ph.D., SET., NET.,
 PROFESSOR & HEAD
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Dr. Arul K.
 Dr. ARUL K., M.Com., MBA, M.Phil., PGDCA, Ph.D.
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V. Vijayalakshmi
 Principal
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 Tamilnadu.

Dr. M. Neela
 Dr. M. NEELA
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 Research Advisor & Associate Professor
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 Annamalai Nagar, Trichy-620 018.



Plagiarism -- IPR Filing -Ethical Issues in Research.

Text books:

1. Kothari C.R (2005), Research Methods for Science, Published by Oxford Press
2. ROIG (M) (2006) Avoiding plagiarism, self-plagiarism, and other questionable writing Practices: A guide to ethical writing.

References:

1. Dipak Kumar Bhattacharya (2006), Research Methodology, Published by Excel Books
2. Bryman, Alan & Emma Bell (2007), Business Research Methods, Published by Oxford Press
3. Chadha, Narender K (2016), 5th Applied Psychometry, Published by Sage

M. Gayathri

Dr. M. GAYATHRI
M.Com., MBA., MHRM., M.Phil., SET., NET., Ph.D.,
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V. Gomathi

Dr.(Mrs)V.GOMATHI, M.Com., M.Phil., PGDPM, Ph.D.,
Research Advisor and Assistant Professor,
Department of Commerce,
Government Arts College,
Tiruverumbur, Tiruchirappalli - 620 018

N. Savithri

Prof.Dr.(Mrs)N.SAVITHRI, M.Com., M.Phil., Ph.D.,
RESEARCH ADVISOR AND HEAD
DEPARTMENT OF COMMERCE
CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)
TIRUCHIRAPPALLI - 18.



CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK


BHARATHIDASAN UNIVERSITY
(Re-accredited with "A" Grade by National Assessment and Accreditation Council (NAAC))
TIRUCHIRAPPALLI - 620 024, TAMILNADU, INDIA
Ph.D. STATEMENT OF MARKS AND GRADES
Examinations of ~~UG, PG, and Ph.D.~~ Programmes Under Choice Based Credit System (CBCS)

APRIL 2021
FOLIO No. : PG/E 0023795

Name of the Candidate: **JANAKI S** Register No. **2020122778585**
 Degree: **Ph.D.** Programme: **COMMERCE (Course Work)** Years of Study: **2019**
 Centre: **42 - CAUVERY COLLEGE FOR WOMEN TIRUCHIRAPPALLI-620 018**

Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Month & Year
		CIA	ESE	Total Max-100					
1-PH20FFM	FUNDAMENTALS OF FINANCIAL MANAGEMENT	24	50	74	7.5	A++	4	PASS	APR2021
1-PH20FMS	FINANCIAL MARKETS AND SERVICES	24	62	86	9.0	D++	4	PASS	APR2021
1-PH20RPE	RESEARCH AND PUBLICATION ETHICS	24	61	85	8.5	D+	2	PASS	APR2021
***** END OF STATEMENT *****									

Declaration: A candidate is declared to have completed the Ph.D Course work Programme successfully only when the Cumulative Credits Earned is a minimum of 10 Passing Minimum: CIA-40%; ESE-40% and 50% in Total (CIA+ESE).



Current Semester Performance				Cumulative Performance				Classification
WAM	GPA	GRADE	CREDIT	WAM	GPA	GRADE	CREDIT	
81.00	8.30	D+	10	81.00	8.30	D+	10	---

For Details of Grade & Grade point, see overleaf, AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
 Passing Minimum: Regular Programmes - CIA - 40%, ESE - 40% and Total - 50% (CIA + ESE)
 For PG Programmes - ESE - 40% and Total - 50% (CIA + ESE)

DATE: 26-07-2022

UNIT OFFICER / SECTION HEAD

S. Suresh

Annamalai Nagar, Tiruchirappalli - 620 018, Tamil Nadu, South India.

Website : cauverycollege.ac.in Phone : 0431 - 2763939, 2751232 Fax : 0431 - 2751234

Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



RESEARCH METHODOLOGY

Code: PH18RM

Objectives:

The primary objective of this course is to develop a research orientation among the scholars and to acquaint them with fundamentals of research methods.

Course Outcomes:

1. Understand the process of research
2. Understand the concepts of sampling and tools for data collection and analysis.
3. Learn how to enter the collected data
4. Learn complex random samplings designs
5. Understand the statistical tools suitable for the research problem
6. Exploring the quantitative the qualitative methods.
7. Discuss the importance of Report Writing.

Unit I: Foundation of Research

- 1.1 Meaning and Nature of Research
- 1.2 Types of Research - Exploratory, Descriptive, and casual research, Experimental
- 1.3 Formation of Research Problems and Hypotheses
- 1.4 Identification of Variables
- 1.5 Review of existing Literature
- 1.6 Research Design

Unit II: Measurement and Sampling

- 2.1 Measurement Scales - Nominal Scale, Ordinal Scale, Ratio Scale, Criteria for good measurement, Attitude Measurement, Likert's scale, Semantic differential scale, Thurstone scale, Equal appearing interval scale, Comparative rating scale, Non Comparative rating scale.
- 2.2 Ranking and Rating Scales
- 2.3 Sampling- Types, Frames, Unit, Sampled Size and Sampling Errors.
- 2.4 Methods of Sampling - Random Sampling and Non- Random Sampling



Unit III: Methods of Data Collection- Quantitative Methods

- 3.1 Field Study
- 3.2 Experimental Methods
- 3.3 Survey and Web survey methods
- 3.4 Development of Scales/ Questionnaire/ Schedules/ Test
- 3.5 Formulation of Questions and their Testing
- 3.6 Reliability and validity

Unit IV: Methods of Data Collection- Qualitative Methods

- 4.1 Observational Methods
- 4.2 Focus Group Discussions
- 4.3 Case studies
- 4.4 Content analysis
- 4.5 Content and Narrative
- 4.6 Ethnography

Unit V: Research Report

- 5.1 Report Writing
- 5.2 Intellectual Property Reporting
- 5.3 Structure of Thesis
- 5.4 Testing of Plagiarism
- 5.5 IPR Filing
- 5.6 Ethical Issues in Research



Text books:

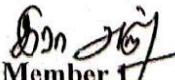
1. Kothari C.R (2005), Research Methods for Science, Published by Oxford Press
2. ROIG (M) (2006) Avoiding plagiarism, self-plagiarism, and other questionable writing Practices: A guide to ethical writing.

References:

1. Dipak Kumar Bhattacharya (2006), Research Methodology, Published by Excel Books
2. Bryman, Alan & Emma Bell (2007), Business Research Methods, Published by Oxford Press
3. Chadha, Narender K (2016), 5th Applied Psychometry, Published by Sage


Research Supervisor

Dr. R. SEETHALAKSHMI, M.Com., MBA, M.Phil., Ph.D.,
Research Advisor & Assistant Professor
R.G. & Research Department of Commerce
Cauvery College for Women
Tiruchirappalli-620 018


Member 1

Dr. R. ARUL, M.Com., M.B.A., M.Phil., PGDCA., Ph.D.,
RESEARCH ADVISOR
ASSISTANT PROFESSOR
PG. DEPARTMENT OF COMMERCE COMPUTER APPLICATION
ST. JOSEPH'S COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI-620 002


Member 2

Dr. G. BALAMURUGAN, M.B.A., M.Phil.,
Assistant Professor,
Dept. of Management Studies,
Anna University-Trichy,
Thiruchirappalli - 620 024.



CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)


NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION - III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK



BHARATHIDASAN UNIVERSITY

(Re-accredited with "A" Grade by National Assessment and Accreditation Council (NAAC))
 TIRUCHIRAPPALLI - 620 024, TAMILNADU, INDIA


SEPTEMBER 2018
 FOLIO No. : PGRE 0027151

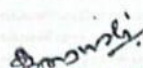
Ph.D. STATEMENT OF MARKS AND GRADES


Examinations of Post-Graduate Programmes Under Choice Based Credit System (CBCS)

Name of the Candidate KANAGAVALLI G						Register No. 25781			
Degree Ph.D.		Programme COMMERCE (Course Work)				Years of Study 2018			
Centre 42 - CAUVERY COLLEGE FOR WOMEN TIRUCHIRAPPALLI - 620 018									
Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Month & Year
		CIA	ESE	Total Max-100					
1-PH18SRM	STRATEGIC HUMAN RESOURCE MANAGEMENT,	31	46	77	8.0	D	4	PASS	SEP2018
1-PH18RS	RECRUITMENT AND SELECTION,	32	49	81	8.5	D+	4	PASS	SEP2018
1-PH18RM	RESEARCH METHODOLOGY,	30	50	80	8.0	D	4	PASS	SEP2018
***** END OF STATEMENT *****									
Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 12. Passing Minimum: CIA-40%; ESE-40% and 50% in Total (CIA+ESE).									
Current Semester Performance				Cumulative Performance				Classification	
WAM	GPA	GRADE	CREDIT	WAM	GPA	GRADE	CREDIT		
79.33	8.16	D+	12	79.33	8.16	D+	12		

For Details of Grade & Grade point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
 Regular Programmes - CIA - 40%, ESE - 40% and Total - 50% (CIA + ESE)
 Passing Minimum: Regular Programmes - ESE - 40% and Total - 50% (CIA + ESE)
 DATE: 3-10-2018


 UNIT OFFICER / SECTION HEAD


 CONTROLLER OF EXAMINATIONS



Controller of Examinations
Tiruchirappalli-24
OFFICE SEAL

ANY SIGNATURE OR STAMP OUTSIDE THIS CIRCLE WILL BEAK THE UNIVERSITY DOCUMENT INVALID

Annamalai Nagar, Tiruchirappalli - 620 018, Tamil Nadu, South India.

Website : cauverycollege.ac.in Phone : 0431 - 2763939, 2751232 Fax : 0431 - 2751234

Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY – 18

EXTERNAL MARKS: 75

CREDITS: 2

INTERNAL MARKS: 25

COURSE CODE:23PHDRPE1

TOTAL MARKS:100

COURSE TITLE: RESEARCH AND PUBLICATION ETHICS

THEORY:

Unit I: PHILOSOPHY AND ETHICS

Introduction to philosophy: definition - nature and scope - concept, branches Ethics: definition, moral philosophy, nature of moral judgements and reactions

Unit II: SCIENTIFIC CONDUCT

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

Unit III: PUBLICATION ETHICS

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 behaviour and vice versa, types
5. Violation of publication ethics, authorship and contributor ship
6. Identification of publication misconduct, complaints and appeals
7. Predatory publishers and journals

PRACTICE:

Unit IV: OPEN ACCESS PUBLISHING

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.

RPE 05: PUBLICATION MISCONDUCT

A. Group Discussions

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23/11/23


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23/11/23

[Handwritten signature]
23/11/23

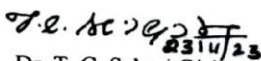


BOOKS/ REFERENCES:

1. Garg, B.L., Karadia, R., Agarwal, F. and Agarwal, U.K., 2002. An introduction to Research Methodology, RBSA Publishers.
2. Kothari, C.R., 1990. Research Methodology: Methods and Techniques. New Age International. 418p. 3. Sinha, S.C. and Dhiman, A.K., 2002. Research Methodology, Ess Ess Publications. 2 volumes.
3. A Hand Book of Methodology of Research, Rajammall, P. Devadoss and K. Kulandaivel, RMM Vidyalaya press, 1976
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8. Research Methodology, Mukul Gupta, Deepa Gupta – PHI Learning Private Ltd., New Delhi, 2011.
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10. Sinha, S.C. and Dhiman, A.K., 2002. Research Methodology, Ess Ess Publications. 2 volumes. 4. Trochim, W.M.K., 2005. Research Methods: the concise knowledge base, Atomic Dog Publishing. 270p.


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**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY – 18****EXTERNAL MARKS: 75****CREDITS: 4****INTERNAL MARKS: 25****COURSE CODE:23PHDRM1****COURSE TITLE: RESEARCH METHODOLOGY****TOTAL MARKS:100****Unit I: Introduction**

Definition of Research – Qualities of Researcher – Techniques for Research Identification of the problem – determining mode of attack – literature survey – references – awareness of current status of the art = abstraction of a research paper = possible ways of getting abreast of current literature – Role of scholar and guide.

Unit II: Techniques of Scientific Writing

Scientific Writing – definition – organizing a scientific paper – Title – listing of authors and address – abstract – introduction – materials and methods section – results and discussion section – acknowledgement – references – design of effective tables – effective illustrations – manuscript – submission – review process – publishing process – reprints – review paper – conference report = oral and poster presentation = thesis = usage of English.

Unit III: Data Analysis and Interpretation Basic concepts

Definitions on data and error – various types of data and their error – propagation of errors – four steps to meaningful experimental results. Basic statistical concepts – best estimate of true value of data – measure of dispersion – confidence level – central limit – significance test – chi square test for goodness of fit – criteria for goodness of fit. Graphical Representation – equations – functional relationships – sequential differences – method of extended differences = method of least squares. Analysis and Interpretation using MS-XL and Origin.

Unit IV: Research Instruments

Working principles and characterization studies: UV-VISIBLE, IR, FTIR, XRD, SEM, TEM, SPM, Hardness tester, Hall effect, four probe, Ultrasonic interferometer, Dielectric measurement (solid/liquid) & Thermal Analyzer (DSC & DTA).

Unit V: Applied Mathematical Functions

Integral representations – applications of Fourier series to periodic functions and forced vibrations. Fourier Transform theory: Fourier Transform of a Time Dependent Function – Some Important Theorems – The Convolution theorem – The Gaussian Wave Packet in Quantum Mechanics – Three-dimensional Fourier transform – The use of Fourier transforms in solving differential equations.

S. Po
23/4/23

T. R. M.
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23/11/23



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

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

Unit V: DATABASES AND RESEARCH METRICS

A. Databases


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

B. Research Metrics

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

REFERENCES:

1. Bird, A. (2006). Philosophy of Science. Routledge. Macintyre, Alasdair (1967) A Short History of Ethics London.
2. P. Chaddah, (2018) Ethics in Competitive Research: Do not get scooped, do not get plagiarized, ISBN:9789387480865
3. National Academy of Sciences, National Academy of Engineering and Institute of Medicine, (2009). On Being a Scientist: A Guide to Responsible Conduct in Research Third Edition National Academies Press
4. Resnik, D. B. (2011). What is ethics in research & why is it important. National Institute of Environmental Health Sciences, 1-10. Retrieved from <https://www.nichs.nih.gov/research/resources/bioethics/whatis/index.cfm>
5. Beall, J. (2012), Predatory publishers are corrupting open access. Nature, 489(7415), 179-179, <https://doi.org/10.1038/489179a>
6. Indian National Science Academy (INSA). Ethics in Science Education, Research and Governance (2019). ISBN:978-81-939482-1-7. <http://www.insaindia.res.in/d/Ethics Book.pdf>


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External Max. Marks: 75

Credits: 2

Internal Max. Marks: 25

Total Passing Minimum: 50

CAUVERY COLLEGE FOR WOMEN(AUTONOMOUS), TIRUCHIRAPPALLI – 18

Ph.D., DEGREE – PHYSICS

PAPER I

PAPER TITLE: RESEARCH AND PUBLICATION ETHICS

PAPER.CODE: 22PHDRPE1

Credit:4

Max.Marks:75

Min.Marks:30

Unit I: Philosophy and Ethics

Introduction to Philosophy: definition, nature, scope, concept, branches.

Ethics: Definition, moral philosophy, nature of moral judgements and reactions.

Unit II: 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 III: Publication Ethics

Publication ethics: definition, introduction and importance, Best Practices/standards setting initiatives and guidelines: COPE, WAME, etc. Conflicts of Interest, Publication misconducts definition, concept, problems that lead to unethical behavior and vice-versa, types, Violation of publication ethics, authorship and contributor ship, identification of publication misconduct, complaints and appeals, Predatory publishers and journals.

Unit IV: 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 suggester, etc.

Unit V: Publication Misconduct

Group Discussions: Subject specific ethical issues, FFP, authorship, Conflicts of Interest. Complaints and appeals: examples and fraud from India and abroad.

Software tools: Use of Plagiarism software like Turnitin, Urkund and other open source software tools.



Unit VI:Databases and research metrics

Databases:Indexing databases.Citation Databases:Web of science,Scopus etc.

Research Metrics:Impact factor of Journal as per journal citation report, SNIP, SJR, IPP, Cite Score.**Metrics:**h-index,g-index,I 10 index,altmetrics.

References:

1. Bird,A(2006).Philosophy of Science,Routledge.
2. MacIntyre,Alasdair(1967).A short History of Ethics.London.
3. P.Chaddah(2018)Ethics in competitive research;Do not get scooped;do not get plagiarized.ISBN:978-9387480865
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5. Indian National Science Academy (INSA),Ethics in Science Education,Research and Governance(2019),ISBN:978-81-939482-1-7.
7.http://www.insindia.res.in/pdf/Ethics_book.pdf.

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 (Research Supervisor)
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 ASSISTANT PROFESSOR
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CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK

BHARATHIDASAN UNIVERSITY
(Accredited with A+ Grade by NAAC in the Third Cycle)
TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.

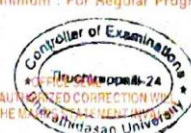
Ph.D. **STATEMENT OF MARKS AND GRADES** JUL. 2023
Examinations of Postgraduate Programmes Under Choice Based Credit System (CBCS)

Name of the Candidate DEVAKI S		Register No. BDU2220212780032		Folio No. 01219					
Degree Ph.D.	Programme PHYSICS (Course Work)			Years of Study 2022					
Centre 42 - CAUVERY COLLEGE FOR WOMEN TIRUCHIRAPPALLI 620 018									
Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Month & Year
		CIA	ESE	Total Max-100					
1-22PHDRPE1	RESEARCH AND PUBLICATION ETHICS	25	70	95	10	0	2	PASS	JUL2023
1-22PHDPHY2B	NANOMATERIALS AND THEIR APPLICATIONS	25	72	97	10	0	4	PASS	JUL2023
1-22PHDPHY3B	SYNTHESIS AND CHARACTERIZATION OF NANOMATERIALS	25	70	95	10	0	4	PASS	JUL2023
***** END OF STATEMENT *****									

Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 10.
DATE: 22-08-2023

Current Semester Performance				Cumulative Performance				Performance
WAM	SGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT	
95.80	10.00	0	10	95.80	10.00	0	10	

For details of Grade & Grade point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
Passing Minimum : For Regular Programmes - CIA - 40%, ESE - 40%, and Total - 50% (CIA + ESE)



ANY UNAUTHORIZED CORRECTION OR ALTERATION WILL BE PENALIZED
Tiruchirappalli-24
Bharathidasan University

A

UNIT OFFICER / SECTION HEAD

S. Suresh

CONTROLLER OF EXAMINATIONS

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Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TIRUCHIRAPPALLI – 18

Ph.D., DEGREE – PHYSICS

PAPER I Credits: 2

RESEARCH AND PUBLICATION ETHICS

(SUB. CODE: 22PHDRPE1)

UNIT 1: PHILOSOPHY AND ETHICS

Introduction to philosophy: definition, nature and scope, concept, branches - Ethics: definition, moral philosophy, nature of moral judgments and reactions.

UNIT 2: 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 3: PUBLICATION ETHICS

Publication 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 behavior and vice versa, types- Violation of publication ethics, authorship and contributorship - Identification of publication misconduct, complaints and appeals - Predatory publishers and journals.

UNIT 4: 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 Suggester, etc.

UNIT 5: PUBLICATION MISCONDUCT

Group Discussions : Subject specific ethical issues, FFP, authorship - Conflicts of interest- Complaints and appeals: examples and fraud from India and abroad.

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

UNIT 6: DATABASES AND RESEARCH METRICS

Databases: Indexing databases - Citation databases: Web of Science, Scopus, etc.



Research Metrics: Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score-Metrics: h-index, g index, i10 index, Altmetrics.

References

1. Bird, A. (2006). Philosophy of Science. Routledge.
2. MacIntyre, Alasdair (1967) A Short History of Ethics. London.
3. P. Chaddah, (2018) Ethics in Competitive Research: Do not get scooped; do not get plagiarized, ISBN:978- 9387480865
4. National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009). On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition. National Academies Press.
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6. Beall, J. (2012). *Predatory publishers are corrupting open access.* Nature, 489(7415), 179-179.
7. Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance(2019) , ISBN:978-81-939482-1- 7. <http://www.insaindia.res.in/pdf/EthicsBook.pdf>

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Tamilnadu.



CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)


NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK



BHARATHIDASAN UNIVERSITY

(Accredited with A+ Grade by NAAC in the Third Cycle)


TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.

STATEMENT OF MARKS AND GRADES

Ph.D. APR. 2023
Examinations of Post-Graduate Programmes Under Choice Based Credit System (CBCS)

Name of the Candidate VIDHYA J				Register No. BDU2220212779986				Folio No. 01117			
Degree Ph.D.		Programme PHYSICS (Course Work)						Years of Study 2022			
Centre 42 - CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TIRUCHIRAPPALLI 620 018											
Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade Credit	Result	Month & Year			
		CIA	ESE	Total Max-100							
1-22PHDRPE1	RESEARCH AND PUBLICATION ETHICS	25	70	95	10	0	2	PASS	APR2023		
1-22PHDPHY2A	NANOMATERIALS AND ITS APPLICATIONS	25	71	96	10	0	4	PASS	APR2023		
1-22PHDPHY3A	CHARACTERIZATION TECHNIQUES	25	71	96	10	0	4	PASS	APR2023		
***** END OF STATEMENT *****											
<p>Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 10. DATE:13-07-2023</p>											
Current Semester Performance				Cumulative Performance				Performance			
WAM	SGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT				
95.80	10.00	0	10	95.80	10.00	0	10				

For details of Grade & Grade point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
Passing Minimum in Regular Programmes - CIA - 40%, ESE - 40%, and Total - 50% (CIA + ESE)



OFFICE SEAL
ANY UNAUTHORIZED CORRECTION WILL
MAKE THE MARKS STATEMENT INVALID

UNIT OFFICER / SECTION HEAD

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Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



External Max. Marks: 75

Credits: 4

Internal Max. Marks: 25

SUB. CODE: 22PHDPHY1

Total Passing Minimum: 50

CAUVERY COLLEGE FOR WOMEN(AUTONOMOUS), TIRUCHIRAPPALLI – 18

Ph.D., DEGREE – PHYSICS

COURSE I: RESEARCH METHODOLOGY

Unit I: Introduction

Definition of Research – Qualities of Researcher – Techniques for Research
Identification of the problem – determining mode of attack – literature survey – references –
awareness of current status of the art – abstraction of a research paper – possible ways of getting
abreast of current literature – Role of scholar and guide.

Unit II: Techniques of Scientific Writing

Scientific Writing – definition – organizing a scientific paper – Title – listing of authors
and address – abstract – introduction – materials and methods section – results and discussion
section – acknowledgement – references – design of effective tables – effective illustrations –
manuscript – submission – review process – publishing process – reprints – review paper –
conference report – oral and poster presentation – thesis – usage of English.

Unit III: Data Analysis and Interpretation Basic concepts

Definitions on data and error – various types of data and their error – propagation of
errors – four steps to meaningful experimental results. Basic statistical concepts – best estimate
of true value of data – measure of dispersion – confidence level – central limit– significance test
– chi square test for goodness of fit – criteria for goodness of fit. Graphical Representation –
equations – functional relationships – sequential differences – method of extended differences –
method of least squares. Analysis and Interpretation using MS-XL and Origin.



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Working principles and characterization studies: UV-VISIBLE, IR, FTIR, XRD, SEM, TEM, SPM, Hardness tester, Hall effect, four probe, Ultrasonic interferometer, Dielectric measurement (solid/liquid) & Thermal Analyzer (DSC & DTA).

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REFERENCE

1. *Research in Education*, Best, McGraw Hill, in 1986.
2. *How to write and publish a scientific paper* – (4th Edn.), Robert A. Day.
3. *Instrumentation Measurement Analysis*, BC Nakra, KK Chaudhry, Tata McGraw Hill 2004/2e (Relevant Sections from Chapter 2, 21, 22)
4. *Lecture material* – collection from Internet.
5. *Mathematical Physics*, AK Ghatak, IC Goyal & SJ Chua Macmillan. Delhi, 2002, Ch. (secs.) 8(8.2-8.4), 9(9.3 & 9.4), 10(10.3,10.5,10.6,10.8-10.10, 10.14)


Dr. K. KANNAGI

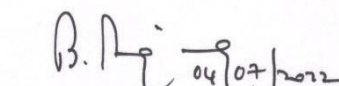
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External Max. Marks: 75

Credits: 2

Internal Max. Marks: 25

SUB. CODE: 22PHDPHY2

Total Passing Minimum: 50

CAUVERY COLLEGE FOR WOMEN(AUTONOMOUS), TIRUCHIRAPPALLI – 18

Ph.D., DEGREE – PHYSICS

COURSE II: RESEARCH AND PUBLICATION ETHICS

THEORY

Unit I: PHILOSOPHY AND ETHICS

Introduction to philosophy: definition - nature and scope - concept, branches

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

Unit II: SCIENTIFIC CONDUCT

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

Unit III: PUBLICATION ETHICS

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 behaviour and vice versa, types
5. Violation of publication ethics, authorship and contributor ship
6. Identification of publication misconduct, complaints and appeals
7. Predatory publishers and journals



PRACTICE

Unit IV: OPEN ACCESS PUBLISHING

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, SpringerJournal Suggester, etc.

• RPE 05: PUBLICATION MISCONDUCT

A. Group Discussions

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

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

Unit v: DATABASES AND RESEARCH METRICS

A. Databases

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

B. Research Metrics

1. Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, CiteScore
2. Metrics: h-index, g index, i10 index, altmetrics

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6. Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019), ISBN:978-81-939482-1-7. [http://www.insaindia.res.in/pdf/Ethics Book.pdf](http://www.insaindia.res.in/pdf/Ethics%20Book.pdf)


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Dr. R. RAMESH BABU

(Doctoral Committee Member)

Associate Professor,
Department of Physics,
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Tiruchirappalli-620 024.



CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK

BHARATHIDASAN UNIVERSITY
(Accredited with A+ Grade by NAAC in the Third Cycle)
TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA. FEB. 2023

Ph.D. **STATEMENT OF MARKS AND GRADES**
Examinations of Post-Graduate Programmes Under Choice Based Credit System (CBCS)

Name of the Candidate SHANMUGAPRIYA B		Register No. BDU221.0212779795	Folio No. 01001	
Degree Ph.D.	Programme PHYSICS (Course Work)		Years of Study 2022	
Centre 42 - CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TIRUCHIRAPPALLI 620 018				

Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Month & Year
		CIA	ESE	Total Max-100					
1-22PHDPHY1	RESEARCH METHODOLOGY	24	68	92	10	0	4	PASS	FEB2023
1-22PHDPHY2	RESEARCH AND PUBLICATION ETHICS	23	70	93	10	0	2	PASS	FEB2023
1-22PHDPHY3	NANOTECHNOLOGY	23	69	92	10	0	4	PASS	FEB2023
1-22PHDPHY4	NANOTECHNOLOGY AND ITS APPLICATIONS	24	68	92	10	0	4	PASS	FEB2023
***** END OF STATEMENT *****									

Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 14.
DATE: 15-03-2023

Current Semester Performance				Cumulative Performance				Performance
WAM	SGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT	
92.14	10.00	0	14	92.14	10.00	0	14	-----

For details of Grade & Grade point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
Passing Minimum: For Regular Programmes - CIA - 40%, ESE - 40% and Total - 50% (CIA + ESE)

UNIT OFFICER / SECTION HEAD

CONTROLLER OF EXAMINATIONS

ANY UNAUTHORIZED CORRECTION WILL MAKE THE MARKSHEET INVALID

Annamalai Nagar, Tiruchirappalli - 620 018, Tamil Nadu, South India.

Website : cauverycollege.ac.in Phone : 0431 - 2763939, 2751232 Fax : 0431 - 2751234

Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



Max. Marks: 75

Credits: 2

SUB. CODE: 22PHDRPE1

Internal Max. Marks: 25

Total Passing Minimum: 50

CAUVERY COLLEGE FOR WOMEN(AUTONOMOUS), TIRUCHIRAPPALLI – 18

Ph.D., DEGREE – PHYSICS

COURSE I : RESEARCH AND PUBLICATION ETHICS

THEORY

Unit I: PHILOSOPHY AND ETHICS

Introduction to philosophy: definition - nature and scope - concept, branches

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

Unit II: SCIENTIFIC CONDUCT

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

Unit III: PUBLICATION ETHICS

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 behaviour and vice versa, types
5. Violation of publication ethics, authorship and contributor ship
6. Identification of publication misconduct, complaints and appeals
7. Predatory publishers and journals

PRACTICE

Unit IV: OPEN ACCESS PUBLISHING

1. Open access publications and initiatives
2. SHERPA/RoMEO online resource to check publisher copyright & self-



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**

A. Group Discussions

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

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

Unit v: DATABASES AND RESEARCH METRICS

A. Databases

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

B. Research Metrics

1. Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, CiteScore
2. Metrics: h-index, g-index, i10 index, altmetrics

References

1. Bird, A. (2006). *Philosophy of Science*. Routledge.
2. MacIntyre, Alasdair (1967) *A Short History of Ethics*. London.
3. P. Chaddah, (2018) *Ethics in Competitive Research: Don't get scooped; don't get plagiarized*, ISBN: 978-9387480865
4. National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009). *On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition*. National Academies Press.
5. Resnik, D. B. (2011). What is ethics in research & why is it important. *National Institute of Environmental Health Sciences*, 1-10. Retrieved from



<https://www.niehs.nih.gov/research/resources/bioethics/whatis>

/index.cfrnBeall,J.(2012).Predatorypublishersarecorruptingopenaccess.Nature,48
9(7415),179-179.<https://doi.org/10.1038/489179a>

6. Indian National Science Academy (INSA), Ethics in Science Education,
Research and Governance(2019),ISBN:978-81-939482-1-
7.<http://www.insaindia.res.in/pdf/EthicsBook.pdf>


04/07/22
Dr.K.KANNAGI

(Research Supervisor)

Assistant Professor,
Department of Physics,
Cauvery College for women (A),
Tiruchirappalli-620 018.


4/7/22
Dr.A.T.RAVICHANDRAN

(Doctoral Committee Member)

Associate Professor,
Department of Physics,
National College (A)
Tiruchirappalli-620 001.


4/7/22
Dr.V.BALACHANDRAN

(Doctoral Committee Member)

Assistant Professor,
Department of physics,
A.A.Government arts college,
Musiri-621 211.



CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)


NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK



BHARATHIDASAN UNIVERSITY

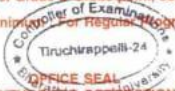
(Accredited with A+ Grade by NAAC in the Third Cycle)
TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.

Ph.D. STATEMENT OF MARKS AND GRADES FEB. 2023

Examinations of Post Graduate Programmes Under Choice Based Credit System (CBCS)

Name of the Candidate KIRUTHIKA R A		Register No. RDU2220212779796		Folio No. 01002					
Degree PH.D.	Programme PHYSICS (Course Work)			Years of Study 2022					
Centre 42 - CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TIRUCHIRAPPALLI 620 018									
Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Month & Year
		CIA	ESE	Total Max-100					
1-22PHDRPE1	RESEARCH AND PUBLICATION ETHICS	24	70	94	10	0	2	PASS	FEB2023
1-22PHDPHY2	NANOTECHNOLOGY	23	69	92	10	0	4	PASS	FEB2023
1-22PHDPHY3	NANOTECHNOLOGY AND ITS APPLICATIONS	24	68	92	10	0	4	PASS	FEB2023
***** END OF STATEMENT *****									
<p>Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 10. DATE: 21-03-2023</p>									
Current Semester Performance				Cumulative Performance				Performance	
WAM	SGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT		
92.40	10.00	0	10	92.40	10.00	0	10		


For details of Grade & Grade point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
Passing Minimum of Examinations - CIA - 40%, ESE - 40% and Total - 50% (CIA + ESE)



OFFICE SEAL
Controller of Examinations
Tiruchirappalli-24

ANY UNAUTHORIZED CONNECTION WILL
MAKE THE MARKS STATEMENT INVALID

UNIT OFFICER / SECTION HEAD



CONTROLLER OF EXAMINATIONS

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Website : cauverycollege.ac.in Phone : 0431 - 2763939, 2751232 Fax : 0431 - 2751234

Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



Max. Marks: 75

Credits: 2

SUB. CODE: 22PHDRPE1

Internal Max. Marks: 25

Total Passing Minimum: 50

CAUVERY COLLEGE FOR WOMEN(AUTONOMOUS), TIRUCHIRAPPALLI – 18

Ph.D., DEGREE – PHYSICS

COURSE I : RESEARCH AND PUBLICATION ETHICS

THEORY

Unit I: PHILOSOPHY AND ETHICS

Introduction to philosophy: definition - nature and scope - concept, branches

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

Unit II: SCIENTIFIC CONDUCT

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

Unit III: PUBLICATION ETHICS

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 contributor ship
6. Identification of publication misconduct, complaints and appeals
7. Predatory publishers and journals

PRACTICE

Unit IV: OPEN ACCESS PUBLISHING

1. Open access publications and initiatives
2. SHERPA/RoMEO online resource to check publisher copyright & self-



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**

A. Group Discussions

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

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

Unit v: DATABASES AND RESEARCH METRICS

A. Databases

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

B. Research Metrics

1. Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, CiteScore
2. Metrics: h-index, g-index, i10index, altmetrics

References

1. Bird, A. (2006). *Philosophy of Science*. Routledge.
2. MacIntyre, Alasdair (1967) *A Short History of Ethics*. London.
3. P. Chaddah, (2018) *Ethics in Competitive Research: Don't get scooped; don't get plagiarized*, ISBN: 978-9387480865
4. National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009). *On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition*. National Academies Press.
5. Resnik, D. B. (2011). What is ethics in research & why is it important. *National Institute of Environmental Health Sciences*, 1-10. Retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis>



<https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm> Beall, J. (2012). Predatory publishers are corrupting open access. Nature, 489(7415), 179-179. <https://doi.org/10.1038/489179a>

6. Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019), ISBN:978-81-939482-1-7.
http://www.insaindia.res.in/pdf/Ethics_Book.pdf


04/07/22

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Assistant Professor,
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Cauvery College for Women (A),
Tiruchirappalli-620 018.


4/7/22

Dr. K. SELVARAJU

(Doctoral Committee Member)

Assistant Professor,
Department of Physics,
Government Arts College,
Ariyalur-621 713.


4/7/22

Dr. V. BALACHANDRAN

(Doctoral Committee Member)

Assistant Professor,
Department of physics,
A.A.Government Arts College,
Musiri-621 211.



CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)


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Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK



BHARATHIDASAN UNIVERSITY

(Accredited with A+ Grade by NAAC in the Third Cycle)
TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.

Ph.D. **STATEMENT OF MARKS AND GRADES** FEB. 2023

Examinations of Post Graduate Programmes Under Choice Based Credit System (CBCS)


Name of the Candidate SANKARI P		Register No. BDU2220212779984		Folio No. 01003	
Degree PH.D.	Programme PHYSICS (Course Work)			Years of Study 2022	
Centre 42 - CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TIRUCHIRAPPALLI 620 018					

Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Month & Year
		CIA	ESE	Total Max-100					
1-22PHDRPE1	RESEARCH AND PUBLICATION ETHICS	23	69	92	10	0	2	PASS	FEB2023
1-22PHDPHY2	NANOTECHNOLOGY	24	68	92	10	0	4	PASS	FEB2023
1-22PHDPHY3	NANOTECHNOLOGY AND ITS APPLICATIONS	23	70	93	10	0	4	PASS	FEB2023
***** END OF STATEMENT *****									

Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 10.
DATE: 21-03-2023

Current Semester Performance				Cumulative Performance				Performance
WAM	SGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT	
92.40	10.00	0	10	92.40	10.00	0	10	-----


For details of Grade & Grade point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
Passing Minimum - For Regular Programmes - CIA - 40%, ESE - 40% and Total - 50% (CIA + ESE)



Tiruchirappalli-24
OFFICE SEAL

ANY UNAUTHORIZED CORRECTION WILL
MAKE THE MARKS STATEMENT INVALID

UNIT OFFICER / SECTION HEAD



CONTROLLER OF EXAMINATIONS

Annamalai Nagar, Tiruchirappalli - 620 018, Tamil Nadu, South India.

Website : cauverycollege.ac.in Phone : 0431 - 2763939, 2751232 Fax : 0431 - 2751234

Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



Department of Mathematics

Name : R. SOUNDARIA
Reg.No. : BDU2020182778759

Credits :2

MAPH20RPE

RESEARCH AND PUBLICATION ETHICS

UNIT I

PHILOSOPHY AND ETHICS:

Introduction to Philosophy – Definition, nature and scope, concept, branches

Ethics – Definition, moral philosophy, nature of moral judgements and reactions

Scientific Conduct - Ethics with respect to science and research – Intellectual honesty and research integrity – Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP).

UNIT II

PUBLICATION ETHICS:

Publication Ethics: Definition, introduction and importance – Best practices / standards setting initiatives and guidelines: COPE, WAME, etc. – Conflicts of interest – Violation of publication ethics, authorship and contributorship.

Redundant publications: duplicate and overlapping publications, salami slicing- Selective reporting and misrepresentation of data.

UNIT III

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 Suggester etc.

UNIT IV

PUBLICATION MISCONDUCT:

Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types- Identification of publication misconduct, complaints and appeals – Predatory publishers and journals.

Software tools: Use of plagiarism software like Turnitin, Urkund and other open-source software tools



UNIT V

Databases: Indexing databases – Citation databases: Web of Science, Scopus, etc.

Research Metrics – Impact Factor of journal as per Journal Citation report, SNIP, SJR, IPP, Cite Score

Metrics: h-index, g index, i10 index, altmetrics

References:

1. Adil E. Shamoo and David B. Resnik , *Responsible Conduct of Research*, Oxford University Press, 2003
2. Bird, A. (2006), *Philosophy of Science*, Routledge.
3. Beall, J. (2012), *Predatory Publishers are corrupting open access*, Nature, 489(7415), 179-179 <https://doi.org/10.1038/489179a>
4. Chaddah, P., (2018), *Ethics in competitive Research: do not get plagiarized*, ISBN: 978 – 9387480865
5. MacIntyre, Alasdair (1967), *A short story of Ethics*, London.
6. National Academy of Sciences, National Academy of Engineering and Institute of Medicine, (2209), *On Being a Scientist: A Guide to Responsible Conduct in Research*, Third Edition, National Academic Press.
7. Paul Oliver, *The Student's Guide to Research Ethics*, Open University Press, 2003
8. Resnik, D.B. (2011), *What is ethics in research & why is it important*, National Institute of Environmental Health Sciences, 1-10, Retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm>

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Research Guide & Assistant Professor
PG & Research Department of Mathematics
Cauvery College for Women (Autonomous)
Trichy - 620 018.

Dr. J. MARIA JOSEPH,
M.Sc., M.Phil B Ed , Ph.D.,
Assistant Professor in Mathematics
St. Joseph's College (Autonomous)
Tiruchirappalli-620 002.

Dr. S. SHUNMUGAPRIYA
Asst. Professor of Mathematics
Rajah Serfoji Govt. College (Autonomous)
THANJAVUR-613 005



CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)


NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

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NAAC - Cycle IV SSR

CRITERION – III





RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK



BHARATHIDASAN UNIVERSITY

(Accredited with A+ Grade by NAAC in the Third Cycle)
TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.

Ph.D. **STATEMENT OF MARKS AND GRADES** FEB. 2022
Examinations of Post Graduate Programmes Under Choice Based Credit System (CBCS)

Name of the Candidate SOUNDARIA R		Register No. BDU2020182778759		Folio No. 0197					
Degree Ph.D.	Programme MATHEMATICS (Course Work)			Years of Study 2020					
Centre 42 - CAUVERY COLLEGE FOR WOMEN TIRUCHIRAPPALLI 620 018									
Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Month & Year
		CIA	ESE	Total Max-100					
1-MAPH20RPE	RESEARCH AND PUBLICATION ETHICS	24	67	91	10	0	2	PASS	FEB2022
1-MAPH20FST	FUZZY SET THEORY	24	68	92	10	0	4	PASS	FEB2022
1-MAPH20IM	INVENTORY MODELS	24	66	90	10	0	4	PASS	FEB2022
***** END OF STATEMENT *****									
									
<p>Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 10. DATE: 07-04-2022</p>									
Current Semester Performance				Cumulative Performance				Performance	
WAM	SGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT		
91.00	10.00	0	10	91.00	10.00	0	10		
<p>For details of Grade & Grade point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations. Passing Minimum : For Regular Programme - 40%, ESE - 40% and Total - 50% (CIA + ESE)</p>									
 OFFICE SEAL ANY UNAUTHORIZED CORRECTIONS MAKE THE MARKS STATEMENT INVALID				 UNIT OFFICER / SECTION HEAD		 CONTROLLER OF EXAMINATIONS			

Annamalai Nagar, Tiruchirappalli - 620 018, Tamil Nadu, South India.

Website : cauverycollege.ac.in Phone : 0431 - 2763939, 2751232 Fax : 0431 - 2751234

Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



Name : N. SINDHUJA
Reg.No. : BDU2210182779719

Credits :4

MAPH22RM

RESEARCH METHODOLOGY

UNIT I

Meaning-Concept-Nature-Steps-Types and Characteristics of research-Scientific Inquiry Philosophical and Sociological foundations of research-Interdisciplinary approach and its implications in various research area.

UNIT II

Qualitative and quantitative methods of research like Historical-case study-ethnography, exposit facto-documentary and content analysis-survey (Normative,descriptive, evaluative etc.) field and laboratory experimental studies-Characteristics of methods and their implications in research area

UNIT III

Research proposal and its elements-Formulation of research problem-criteria of sources and definition-Development of objectives and characteristics of objectives-Development hypotheses and applications.

UNIT IV

Concept of sampling and other concepts related to sampling-Probability and non-probability samples-their characteristics and implications-Tools of data collections, their types, attributes and uses-Redesigning- research tools-like questionnaire-opinionnaire-observation-interviews-scales and tests etc.

UNIT V

Analysis of qualitative data based on various tools-Analysis of quantitative data and its presentation with tables, graphs etc-Statistical tools and techniques of data analysis-measures of central tendency-dispersion-Decision making with hypothesis testing through parametric and non-parametric tests-Validity and delimitations of research findings.



REFERENCES

1. Abdolhossini, A. (2012). The effects of cognitive and meta-cognitive methods of teaching mathematics. *Procedia Social and Behavioral Sciences*, 46, 5894–5899. doi:10.1016/j.sbspro.2012.06.535
2. Dinet, J., Chevalier, A., & Tricot, A. (2012). Information search activity: An overview. *Revue Européenne de Psychologie Appliquée/European Review of Applied Psychology*, 62(2), 49–62. doi:10.1016/j.erap.2012.03.0042. Pauline Vyoung: Scientific Social Surveys and Research.
3. Panneerselvam, R., *Research Methodology*, Prentice Hall Of India, New Delhi, 2004
4. Kothari: *Research Methodology*.
5. Festinger. L & D. Katz: *Research Methods in Behavioral Science*, <https://psycnet.apa.org/record/1954-03542-000>
6. Sellitz, Et Al: *Research Methods in Social Relations*, <https://www.worldcat.org/title/research-methods-in-social-relations/oclc/489920669>

Dr. K. KALAIARASI, M.Sc., M.Phil., Ph.D.,
Research Guide & Assistant Professor
PG & Research Department of Mathematics
Cauvery College for Women (Autonomous)
Trichy - 620 018.

Dr. M. SUMATHI M.Sc., M.Phil., M.B.A., PG D.C.A., Ph.D.,
Assistant Professor & Research Advisor
PG & Research Department of Mathematics
Khadir Mohideen College, Adirampattinam
Thanjavur-Dist. 614 701. Cell: 93632 56249

Dr. P. MURUGANANTHAM
M.Sc., M.Phil., Ph.D., B.Ed., PGDCA.,
Assistant Professor of Mathematics
Jamal Mohamed College (Autonomous)
Tiruchirappalli - 620 020.



Name :N. SINDHUJA
Reg.No. : BDU2210182779719

Credits :2

MAPH22RPE

RESEARCH AND PUBLICATION ETHICS

UNIT I

PHILOSOPHY AND ETHICS:

Introduction to Philosophy – Definition, nature and scope, concept, branches

Ethics – Definition, moral philosophy, nature of moral judgements and reactions

Scientific Conduct - Ethics with respect to science and research –Intellectual honesty and research integrity – Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP).

UNIT II

PUBLICATION ETHICS:

Publication Ethics: Definition, introduction and importance – Best practices / standards setting initiatives and guidelines: COPE, WAME, etc. – Conflicts of interest — Violation of publication ethics, authorship and contributorship.

Redundant publications: duplicate and overlapping publications, salami slicing- Selective reporting and misrepresentation of data.

UNIT III

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 Suggester etc.

UNIT IV

PUBLICATION MISCONDUCT:

Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types- Identification of publication misconduct, complaints and appeals – Predatory publishers and journals.

Software tools: Use of plagiarism software like Turnitin, Urkund and other open-source software tools



UNIT V

Databases: Indexing databases – Citation databases: Web of Science, Scopus, etc.

Research Metrics – Impact Factor of journal as per Journal Citation report, SNIP, SJR, IPP, Cite Score

Metrics: h-index, g index, i10 index, altmetrics

References:

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2. Bird, A. (2006), *Philosophy of Science*, Routledge.
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7. Paul Oliver, *The Student's Guide to Research Ethics*, Open University Press, 2003
8. Resnik, D.B. (2011), *What is ethics in research & why is it important*, National Institute of Environmental Health Sciences, 1-10, Retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm>

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Trichy - 620 018.

Dr. M. SUMATHI M.Sc., M.Phil., M.B.A., PG.DCA, Ph.D.,
Assistant Professor & Research Advisor
PG & Research Department of Mathematics
Khadir Mohideen College, Adirampattinam
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Dr. P. MURUGANATHAM
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Assistant Professor of Mathematics
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Tiruchirappalli - 620 020.



CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

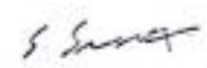
NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK

BHARATHIDASAN UNIVERSITY										
(Accredited with A+ Grade by NAAC in the Third Cycle)										
TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.										
Ph.D. STATEMENT OF MARKS AND GRADES					OCT., 2022					
Examinations of Post-Graduate Programmes Under Choice Based Credit System (CBCS)										
Name of the Candidate					Register No.			Folio No.		
SINDHUJA N					BDU2210182779719			0750		
Degree		Programme					Years of Study			
Ph.D.		MATHEMATICS (Course Work)					2022			
Centre 42 - CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TIRUCHIRAPPALLI 620 018										
Sem	Course Code	Course Title	Marks Secured			Grade Point	Grade	Credits	Result	Month & Year
			CIA	ESE	Total Max-100					
I	HAPH22RM	RESEARCH METHODOLOGY	24	66	90	10	0	4	PASS	OCT2022
I	HAPH22RPE	RESEARCH AND PUBLICATION ETHICS	25	67	92	10	0	2	PASS	OCT2022
I	HAPH22FST	FUZZY SET THEORY	25	65	90	10	0	4	PASS	OCT2022
I	HAPH22IHML	INVENTORY MODELS WITH MACHINE LEARNING	24	65	89	9	A+	4	PASS	OCT2022
***** END OF STATEMENT *****										
<p>Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 14.</p> <p>DATE: 17-11-2022</p>										
Current Semester Performance				Cumulative Performance				Performance		
WAM	CGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT			
90.00	9.71	0	14	90.00	9.71	0	14	-----		
<p>For more details visit: www.cauverycollege.ac.in or see overleaf. AA - Absent, RA - Reappearances, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.</p> <p>For U. Programmes - CIA - 40%, ESE - 40% and Total - 80% (CIA + ESE)</p>										
 CONTROLLER OF EXAMINATIONS										

Annamalai Nagar, Tiruchirappalli - 620 018, Tamil Nadu, South India.

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Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



Name : S. SWATHI
Reg.No. : BDU2210182779782

Credits :4

MAPH22RM

RESEARCH METHODOLOGY

UNIT I

Meaning-Concept-Nature-Steps-Types and Characteristics of research-Scientific Inquiry Philosophical and Sociological foundations of research-Interdisciplinary approach and its implications in various research area.

UNIT II

Qualitative and quantitative methods of research like Historical-case study-ethnography, exposit facto-documentary and content analysis-survey (Normative,descriptive, evaluative etc.) field and laboratory experimental studies-Characteristics of methods and their implications in research area

UNIT III

Research proposal and its elements-Formulation of research problem-criteria of sources and definition-Development of objectives and characteristics of objectives-Development hypotheses and applications.

UNIT IV

Concept of sampling and other concepts related to sampling-Probability and non-probability samples-their characteristics and implications-Tools of data collections, their types, attributes and uses-Redesigning- research tools-like questionnaire-opinionnaire-observation-interviews-scales and tests etc.

UNIT V

Analysis of qualitative data based on various tools-Analysis of quantitative data and its presentation with tables, graphs etc-Statistical tools and techniques of data analysis-measures of central tendency-dispersion-Decision making with hypothesis testing through parametric and non-parametric tests-Validity and delimitations of research findings.



REFERENCES

1. Abdolhossini, A. (2012). The effects of cognitive and meta-cognitive methods of teaching mathematics. *Procedia Social and Behavioral Sciences*, 46, 5894–5899. doi:10.1016/j.sbspro.2012.06.535
2. Dinet, J., Chevalier, A., & Tricot, A. (2012). Information search activity: An overview. *Revue Européenne de Psychologie Appliquée/European Review of Applied Psychology*, 62(2), 49–62. doi:10.1016/j.erap.2012.03.0042. Pauline Vyoung. Scientific Social Surveys and Research.
3. Panneerselvam, R., *Research Methodology*, Prentice Hall Of India, New Delhi, 2004
4. Kothari: *Research Methodology*.
5. Festinger, L & D. Katz: *Research Methods in Behavioral Science*, <https://psycnet.apa.org/record/1954-03542-000>
6. Sellitz, Et Al: *Research Methods in Social Relations*, <https://www.worldcat.org/title/research-methods-in-social-relations/oclc/489920669>

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Name : S. SWATHI

Reg.No. : BDU2210182779782

Credits :2

MAPH22RPE

RESEARCH AND PUBLICATION ETHICS

UNIT I

PHILOSOPHY AND ETHICS:

Introduction to Philosophy – Definition, nature and scope, concept, branches

Ethics – Definition, moral philosophy, nature of moral judgements and reactions

Scientific Conduct - Ethics with respect to science and research –Intellectual honesty and research integrity – Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP).

UNIT II

PUBLICATION ETHICS:

Publication Ethics: Definition, introduction and importance – Best practices / standards setting initiatives and guidelines: COPE, WAME, etc. – Conflicts of interest – Violation of publication ethics, authorship and contributorship.

Redundant publications: duplicate and overlapping publications, salami slicing- Selective reporting and misrepresentation of data.

UNIT III

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 Suggester etc.

UNIT IV

PUBLICATION MISCONDUCT:

Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types- Identification of publication misconduct, complaints and appeals – Predatory publishers and journals.

Software tools: Use of plagiarism software like Turnitin, Urkund and other open-source software tools



UNIT V

Databases: Indexing databases – Citation databases: Web of Science, Scopus, etc.

Research Metrics – Impact Factor of journal as per Journal Citation report, SNIP, SJR, IPP, Cite Score

Metrics: h-index, g index, i10 index, altmetrics

References:

1. Adil E. Shamoo and David B. Resnik , *Responsible Conduct of Research*, Oxford University Press, 2003
2. Bird, A. (2006), *Philosophy of Science*, Routledge.
3. Beall, J. (2012), *Predatory Publishers are corrupting open access*, Nature, 489(7415), 179-179 <https://doi.org/10.1038/489179a>
4. Chaddah, P., (2018), *Ethics in competitive Research: do not get plagiarized*, ISBN: 978 – 9387480865
5. MacIntyre, Alasdair (1967), *A short story of Ethics*, London.
6. National Academy of Sciences, National Academy of Engineering and Institute of Medicine, (2209), *On Being a Scientist: A Guide to Responsible Conduct in Research*, Third Edition, National Academic Press.
7. Paul Oliver, *The Student's Guide to Research Ethics*, Open University Press, 2003
8. Resnik, D.B. (2011), *What is ethics in research & why is it important*, National Institute of Environmental Health Sciences, 1-10, Retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm>

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CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK

BHARATHIDASAN UNIVERSITY
(Accredited with A+ Grade by NAAC in the Third Cycle)
TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.

PH.D. - STATEMENT OF MARKS AND GRADES OCT. 2022


Examinations of Post-Graduate Programmes Under Choice Based Credit System (CBCS)


Name of the Candidate SWATHI S		Register No. BDU22101R2779782		Folio No. 0751					
Degree Ph.D.	Programme MATHEMATICS (Course Work)			Years of Study 2022					
Centre 42 - CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TIRUCHIRAPPALLI 620 018.									
Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade/Credit	Result	Month & Year	
		CIA	ESE	Total Max-100					
1-MAPH22RH	RESEARCH METHODOLOGY	24	69	93	10	0	4	PASS	OCT2022
1-MAPH22RPE	RESEARCH AND PUBLICATION ETHICS	23	65	88	9	A+	2	PASS	OCT2022
1-MAPH22FST	FUZZY SET THEORY	24	66	90	10	0	4	PASS	OCT2022
1-MAPH22IHML	INVENTORY MODELS WITH MACHINE LEARNING	24	65	89	9	A+	4	PASS	OCT2022
***** END OF STATEMENT *****									


Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 14.
DATE:17-11-2022

Current Semester Performance				Cumulative Performance				Performance
WAM	EQPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT	
90.28	9.57	0	14	90.28	9.57	0	14	-----

For details of the marking scheme, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
Passing Criteria for Post-graduate Programmes - CIA - 40%, ESE - 40% and Total - 50% (CIA + ESE)


 ANY UNAUTHORIZED CORRECTION WILL
MAKE THE MARKS STATEMENT INVALID


 UNIT OFFICER / SECTION HEAD


 CONTROLLER OF EXAMINATIONS

Annamalai Nagar, Tiruchirappalli - 620 018, Tamil Nadu, South India.

Website : cauverycollege.ac.in Phone : 0431 - 2763939, 2751232 Fax : 0431 - 2751234

Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI-24

CENTRE: CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY – 18

Ph.D – Course Work – Syllabus – Paper I – Research and Publication Ethics-CREDITS 2

Course code- 22PHIDMAT01

UNIT I

PHILOSOPHY AND ETHICS:

Introduction to Philosophy – Definition, nature and scope, concept, branches

Ethics – Definition, moral philosophy, nature of moral judgements and reactions

Scientific Conduct - Ethics with respect to science and research – Intellectual honesty and research integrity – Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP).

UNIT II

PUBLICATION ETHICS:

Publication Ethics: Definition, introduction and importance – Best practices / standards setting initiatives and guidelines: COPE, WAME, etc. – Conflicts of interest — Violation of publication ethics, authorship and contributorship.

Redundant publications: duplicate and overlapping publications, salami slicing- Selective reporting and misrepresentation of data.

UNIT III

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 Suggester etc.

UNIT IV

PUBLICATION MISCONDUCT:

Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types- Identification of publication misconduct, complaints and appeals – Predatory publishers and journals.

Software tools: Use of plagiarism software like Turnitin, Urkund and other open-source software tools



UNIT V

Databases: Indexing databases – Citation databases: Web of Science, Scopus, etc.

Research Metrics – Impact Factor of journal as per Journal Citation report, SNIP, SJR, IPP, Cite Score

Metrics: h-index, g index, i10 index, altmetrics

References:

1. Adil E. Shamoo and David B. Resnik , *Responsible Conduct of Research*, Oxford University Press, 2003
2. Bird, A. (2006), *Philosophy of Science*, Routledge.
3. Beall, J. (2012), *Predatory Publishers are corrupting open access*, Nature, 489(7415), 179-179 <https://doi.org/10.1038/489179a>
4. Chaddah, P., (2018), *Ethics in competitive Research: do not get plagiarized*, ISBN: 978 – 9387480865
5. MacIntyre, Alasdair (1967), *A short story of Ethics*, London.
6. National Academy of Sciences, National Academy of Engineering and Institute of Medicine, (2209), *On Being a Scientist: A Guide to Responsible Conduct in Research*, Third Edition, National Academic Press.
7. Paul Oliver, *The Student's Guide to Research Ethics*, Open University Press, 2003
8. Resnik, D.B. (2011), *What is ethics in research & why is it important*, National Institute of Environmental Health Sciences, 1-10, Retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm>

Dr.G.Janaki

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Dr.Manju Somanath

DC Member

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Dr. K. Kalaiarasi

DC Member

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CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK


BHARATHIDASAN UNIVERSITY
(Accredited with A+ Grade by NAAC in the Third Cycle)
TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.


STATEMENT OF MARKS AND GRADES
Examinations of Post-Graduate Programmes Under Choice Based Credit System (CBCS)


PH.D. APR. 2023

Name of the Candidate GOWRI SHANKARI A				Register No. BDU2220182779933				Folio No. 01120			
Degree Ph.D.		Programme MATHEMATICS (Course Work)						Years of Study 2022			
Centre 42 - CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TIRUCHIRAPPALLI - 620 018											
Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade Credit	Result	Month & Year			
		CIA	ESE	Total Max-100							
1-22PHDMAT01	RESEARCH AND PUBLICATION ETHICS	23	69	92	10	0	2	PASS	APR2023		
1-22PHDMAT02	NUMBER THEORY	24	73	97	10	0	4	PASS	APR2023		
1-22PHDMAT03	ALGEBRA	24	72	96	10	0	4	PASS	APR2023		
***** END OF STATEMENT *****											
Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 10. DATE:13-07-2023											
Current Semester Performance				Cumulative Performance				Performance			
WAM	SGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT				
95.60	10.00	0	10	95.60	10.00	0	10	-----			

For details of Grade & Grade point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
Passing Minimum - For Regular Programmes - CIA - 40%, ESE - 40%, and Total - 50% (CIA + ESE)


 CONTROLLER OF EXAMINATIONS
 TIRUCHIRAPPALLI - 620 018
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 UNIT OFFICER / SECTION HEAD


 CONTROLLER OF EXAMINATIONS

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Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI-24

CENTRE: CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY – 18

Ph.D – Course Work – Syllabus – Paper I – Research and Publication Ethics-CREDITS 2

Course code- 22PHDMAT01

UNIT I

PHILOSOPHY AND ETHICS:

Introduction to Philosophy – Definition, nature and scope, concept, branches

Ethics – Definition, moral philosophy, nature of moral judgements and reactions

Scientific Conduct - Ethics with respect to science and research – Intellectual honesty and research integrity – Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP).

UNIT II

PUBLICATION ETHICS:

Publication Ethics: Definition, introduction and importance – Best practices / standards setting initiatives and guidelines: COPE, WAME, etc. – Conflicts of interest – Violation of publication ethics, authorship and contributorship.

Redundant publications: duplicate and overlapping publications, salami slicing- Selective reporting and misrepresentation of data.

UNIT III

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 Suggester etc.

UNIT IV

PUBLICATION MISCONDUCT:

Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types- Identification of publication misconduct, complaints and appeals – Predatory publishers and journals.

Software tools: Use of plagiarism software like Turnitin, Urkund and other open-source software tools

UNIT V

Databases: Indexing databases – Citation databases: Web of Science, Scopus, etc.

Research Metrics – Impact Factor of journal as per Journal Citation report, SNIP, SJR, IPP, Cite Score

Metrics: h-index, g index, i10 index, altmetrics



References:

1. Adil E. Shamoo and David B. Resnik, *Responsible Conduct of Research*, Oxford University Press, 2003
2. Bird, A. (2006), *Philosophy of Science*, Routledge.
3. Beall, J. (2012), *Predatory Publishers are corrupting open access*, Nature, 489(7415), 179-179 <https://doi.org/10.1038/489179a>
4. Chaddah, P., (2018), *Ethics in competitive Research: do not get plagiarized*, ISBN: 978 – 9387480865
5. MacIntyre, Alasdair (1967), *A short story of Ethics*, London.
6. National Academy of Sciences, National Academy of Engineering and Institute of Medicine, (2209), *On Being a Scientist: A Guide to Responsible Conduct in Research*, Third Edition, National Academic Press.
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8. Resnik, D.B. (2011), *What is ethics in research & why is it important*, National Institute of Environmental Health Sciences, 1-10, Retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm>


22/03/2023
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22/3/2023
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22/03/2023
Dr. V. Pandichelvi

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CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)


NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK



BHARATHIDASAN UNIVERSITY

(Accredited with A+ Grade by NAAC in the Third Cycle)

TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.

STATEMENT OF MARKS AND GRADES

Examinations of Post Graduate Programmes Under Choice Based Credit System (CBCS)


Name of the Candidate SANGEETHA P		Register No. BUU2220182780114	Folio No. 01117
Degree Ph.D.	Programme MATHEMATICS (Course Work)		Years of Study 2022
Centre - 42 - CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TIRUCHIRAPPALLI - 620 018			


Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade	Credits	Result	Month & Year
		CIA	ESE	Total Max-100					
1-22PHDMAT01	RESEARCH AND PUBLICATION ETHICS	23	69	92	10	0	2	PASS	APR202
1-22PHDMAT02	NUMBER THEORY	24	70	94	10	0	4	PASS	APR202
1-22PHDMAT03	ALGEBRA	24	73	97	10	0	4	PASS	APR202
***** END OF STATEMENT *****									

Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 10.
DATE: 15-07-2023

Current Semester Performance				Cumulative Performance				Performance
WAM	CGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT	
94.80	10.00	D	10	94.80	10.00	D	10	

For details of Grade & Grade point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations, Missing -
Weightage for Programmes - CIA - 40%, ESE - 40%, and Total - 80% (CIA + ESE)


 UNIT OFFICER / SECTION HEAD


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Department of Computer Science

CANDIDATE NAME : R RITA JENIFER
REG. NO. : BDU2120412779310
RESEARCH ADVISOR : DR. V. SINTHU JANITA
CREDITS : 2

CORE COURSE - I: RESEARCH AND PUBLICATION ETHICS

Unit I

Philosophy and Ethics: Introduction to philosophy – definition - nature and scope - concept - branches. Ethics: Definition - moral philosophy - nature of moral judgements and reactions.

Unit II

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 III

Publication 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 contributorship - Identification of publication misconduct, complaints and appeals - Predatory publishers and journals.

Unit IV

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 Suggester, etc.

Unit V

Publication Misconduct: Group Discussion: Subject specific ethical issues, FFP, authorship - Conflicts of interest - Complaints and appeals: examples and fraud from India and abroad - Software tools: Use of plagiarism software like Turnitin, Urkund and other open source software tools.

Unit VI

Databases and Research Metrics: Databases: Indexing databases - Citation databases: Web of Science, Scopus etc. Research Metrics: Impact factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score - Metrics: h-index, g index, i10 index, altmetrics.

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TIRUCHIRAPPALLI

Dr. T. Lucia Agnes Beena
DC Member

Dr. T. LUCIA AGNES BEENA
Assistant Professor in Computer Science
St. Joseph's College (Autonomous)



References

Bird, A. (2006), Philosophy of Science. Routledge.

MacIntyre, Alasdair (1967), A Short History of Ethics. London.

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Beall, J. (2012), Predatory publishers are corrupting open access. Nature, 489(7415), 179-179. <https://doi.org/10.1038/489179a>

Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019), ISBN: 978-81-939482-1-7. http://www.insaindia.res.in/pdf/Ethics_Book.pdf

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Research Advisor

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Dr.S. Panneer Arokiaraj
DC Member

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Associate Professor
PG & Research Dept. of Computer Science
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Dr. T. Lucia Agnes Beena
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Assistant Professor in Computer Science
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CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)


NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK



BHARATHIDASAN UNIVERSITY

(Accredited with A+ Grade by NAAC in the Third Cycle)
TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.

Ph.D. **STATEMENT OF MARKS AND GRADES** JUN. 2022

Examinations of Post-Graduate Programmes Under Choice Based Credit System (CBCS)


Name of the Candidate RITA JENIFER R		Register No. BDU2120412779310		Folio No. 0467	
Degree Ph.D.	Programme COMPUTER SCIENCE (Course Work)			Years of Study 2021	
Centre 42 - CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TIRUCHIRAPPALLI 620 018					

Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Month & Year
		CIA	ESE	Total Max-100					
1-CPE-RPE	RESEARCH AND PUBLICATION ETHICS	23	62	85	9	A+	2	PASS	JUN2022
1-PH21IOT	INTERNET OF THINGS	24	63	87	9	A+	4	PASS	JUN2022
1-PH21AIOT	ATTACKS IN INTERNET OF THINGS	24	63	87	9	A+	4	PASS	JUN2022
***** END OF STATEMENT *****									

Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 10.
DATE:12-07-2022

Current Semester Performance				Cumulative Performance				Performance
WAM	SGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT	
86.60	9.00	0	10	86.60	9.00	0	10	-----

For details of Grade & Grade point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
Passing Minimum Marks in Choice Based Credit Programmes - CIA - 40%, ESE - 40% and Total - 50% (CIA + ESE)



ANY UNAUTHORIZED SIGNATURE WILL
MAKE THE STATEMENT INVALID

UNIT OFFICER / SECTION HEAD

S. Suresh

CONTROLLER OF EXAMINATIONS

Annamalai Nagar, Tiruchirappalli - 620 018, Tamil Nadu, South India.

Website : cauverycollege.ac.in Phone : 0431 - 2763939, 2751232 Fax : 0431 - 2751234

Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



Name of the Candidate: V.Vasodha (Reg.No.: BDU212841279273)

Subject Code: CPE-RPE Credits: 3

CORE COURSE - I: RESEARCH AND PUBLICATION ETHICS

Unit I
Philosophy and Ethics: Introduction to philosophy – definition - nature and scope - concept - branches. Ethics: Definition - moral philosophy - nature of moral judgments and actions.

Unit II
Scientific Conduct: Ethics with respect to science and research - Intellectual honesty and research integrity - Scientific misconduct: Fabrication, Falsification and Plagiarism (FFP) - Endorsing publications; duplicate and overlapping publications, salami slicing - Selective reporting and misrepresentation of data.

Unit III
Publication Ethics: Definition, introduction and importance - Best practices/standards writing 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 contributorship - Identification of publication misconduct, complaints and appeals - Predatory publishers and journals.

Unit IV
Open Access Publishing: Open access publications and initiatives - SHERPA/ RabRIO online resource to check publisher copyright & self-archiving policies - Software tool to identify predatory publications developed by SPPU - Journal finder/journal suggestion tools viz. JANU, Elsevier Journal Finder, Springer Journal Suggester, etc.

Unit V
Publication Misconduct: Group Discussion: Subject specific ethical issues, FFP, authorship - Conflicts of interest - Complaints and appeals: examples and trial from India and abroad - Software tools: Use of plagiarism software like Turnitin, iThenticate and other open source software tools.

Unit VI
Database and Research Metrics: Database: Indexing databases - Citation databases: Web of Science, Scopus etc. Research Metrics: Impact factor of journal as per Journal Citation Report, SNIP, SIR, IPI, Cite Score - Metrics: h-index, g-index, I10 index, altmetrics.


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 Head, PG & Research
 Department of Computer Science



References

- Hill, A. (2006), Philosophy of Science. Routledge.
- Mackay, Alasdair (1967), A Short History of Ethics. London.
- P. Chaddah, (2018), Ethics in Competitive Research: Do not get accepted; do not get plagiarized, ISBN: 978-9387480365.
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- Reed, J. (2017), Precovery publishers are corrupting open access. Nature, 549(7415), 179-179. <https://doi.org/10.1038/549179a>
- Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance(2019), ISBN: 978-81-939482-1-7. http://www.insaonline.net.in/pdf/Ethics_Book.pdf



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CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

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NAAC - Cycle IV SSR

CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK

BHARATHIDASAN UNIVERSITY
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TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.

Ph.D. **STATEMENT OF MARKS AND GRADES** JUL. 2022
Examinations of ~~PASS COURSE~~ Programmes Under Choice Based Credit System (CBCS)

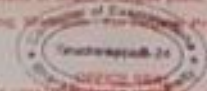
Name of the Candidate YASOORA V		Register No. BDU2120412779273		Roll No. 0527	
Degree Ph.D.	Programme COMPUTER SCIENCE (Course Work)			Years of Study 2021	
Centre 42 - CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TIRUCHIRAPPALLI 620 018					


Seri Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Month & Year
		CIA	ESE	Total Max-100					
1-CPE-RPE	RESEARCH AND PUBLICATION ETHICS	23	58	81	9	A+	2	PASS	JUL 2022
1-PH2110T	INTERNET OF THINGS	24	60	84	9	A+	4	PASS	JUL 2022
1-PH21R10T	ROUTING IN INTERNET OF THINGS	24	62	86	9	A+	4	PASS	JUL 2022
***** END OF STATEMENT *****									

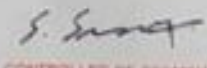
Declaration: A candidate is declared to have completed the Ph.D Course Work Programmes successfully only when the Cumulative Credits Earned is a minimum of 10.
DATE: 01-08-2022

Current Semester Performance				Cumulative Performance				Performance
WAM	CGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT	
84.20	9.00	D	10	84.20	9.00	D	10	

For details of Grade & Grade point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
Passing Requirement for Examinations Programmes - CIA - 40%, ESE - 40% and Total - 80% (CIA + ESE)


 ANY UNAUTHORIZED CORRECTION WILL
MAKE THE MARKS STATEMENT INVALID


 UNIT OFFICER / SECTION HEAD


 CONTROLLER OF EXAMINATIONS

Annamalai Nagar, Tiruchirappalli - 620 018, Tamil Nadu, South India.

Website : cauverycollege.ac.in Phone : 0431 - 2763939, 2751232 Fax : 0431 - 2751234

Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



Name of the Candidate: R. SRIDEVI (Reg. No:BDU2120412779050)

Subject Code: CPE-RPE

Credits: 2
Internal Marks: 25
External Marks: 75

CORE COURSE - I: RESEARCH AND PUBLICATION ETHICS

Unit I

Philosophy and Ethics: Introduction to philosophy – definition - nature and scope - concept - branches. Ethics: Definition - moral philosophy - nature of moral judgements and reactions.

Unit II

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 III

Publication 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 contributorship - Identification of publication misconduct, complaints and appeals - Predatory publishers and journals.

Unit IV

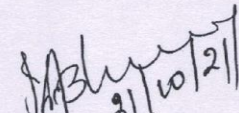
Open Access Publishing: Open access publications and initiatives - SHERPA/ RoMEO online resource to check publisher copyright & self-archiving policies - Software tool to identify predatory publications developed by SPPU - Journal finder/journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer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

Unit V

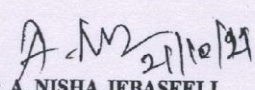
Publication Misconduct: Group Discussion: Subject specific ethical issues, FFP, authorship - Conflicts of interest - Complaints and appeals: examples and fraud from India and abroad - Software tools: Use of plagiarism software like Turnitin, Urkund and other open source software tools.

Unit VI

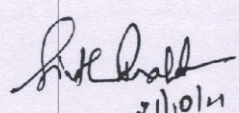
Databases and Research Metrics: Databases: Indexing databases - Citation databases: Web of Science, Scopus etc. Research Metrics: Impact factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score - Metrics: h-index, g index, i10 index, altmetrics.


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References

Bird, A. (2006), Philosophy of Science. Routledge.

MacIntyre, Alasdair (1967), A Short History of Ethics. London.

P. Chaddah, (2018), Ethics in Competitive Research: Do not get scooped; do not get plagiarized, ISBN: 978-9387480865.

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Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019), ISBN: 978-81-939482-1-7. http://www.insaindia.res.in/pdf/Ethics_Book.pdf

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CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION – III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK

BHARATHIDASAN UNIVERSITY
(Accredited with A+ Grade by NAAC in the Third Cycle)
TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.

PH.D. STATEMENT OF MARKS AND GRADES JUN. 2022

Examinations of Post Graduate Programmes Under Choice Based Credit System (CBCS)


Name of the Candidate SRIDEVI R.		Register No. BOJ212041E779050		Folio No. 0466	
Degree Ph.D.	Programme COMPUTER SCIENCE (Course Work)			Years of Study 2021	
Centre 42 - CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TIRUCHIRAPPALLI 620 018					

Sem Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Month & Year
		CIA	ESE	Total Max:100					
I-CPE-RPE	RESEARCH AND PUBLICATION ETHICS	23	63	86	9	A+	2	PASS	JUN2022
I-PH2110T	INTERNET OF THINGS	24	62	86	9	A+	4	PASS	JUN2022
I-PH21R1GT	ROUTING IN INTERNET OF THINGS	24	67	91	10	A	4	PASS	JUN2022
***** END OF STATEMENT *****									

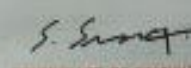
Declaration: A candidate is declared to have completed the Ph.D. Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 10.
DATE: 12-07-2022

Current Semester Performance				Cumulative Performance				Performance			
WAM	SGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT				
88.00	9.40	0	10	88.00	9.40	0	10				

For details of Grade & Credit point, see website. A++ - Absent, A+ - Pass with Distinction, A - Consistently Meritorious Achievement, ESE - End Semester Examinations.
Passing Minimum in all programmes - CIA - 30%, ESE - 40% and Total - 50% (CIA + ESE).


 CONTROLLER OF EXAMINATIONS

UNIT OFFICER / SECTION HEAD


 CONTROLLER OF EXAMINATIONS

ANY UNAUTHORIZED SIGNATURE OR ALTERATION WILL MAKE THE MARKS STATEMENT INVALID

Annamalai Nagar, Tiruchirappalli - 620 018, Tamil Nadu, South India.

Website : cauverycollege.ac.in Phone : 0431 - 2763939, 2751232 Fax : 0431 - 2751234

Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



DEPARTMENT OF MICROBIOLOGY

Course Code:22PHDMBCW1

RESEARCH METHODOLOGY

Objectives

- To gain highlights the various postulates of research problems, research design, writing a thesis and modern statistical methods.
- Detailed study about research problem individually in a perfect scientific method

Unit I: Meaning of Research - Function of Research
Meaning of Research - Function of Research – Characteristics of Research –Steps involved in Research – Research in Pure and Applied Sciences - Inter Disciplinary Research. Factors which hinder Research – Significance of Research - Research and scientific methods – Research Process– Criteria of good Research – Problems encountered by Researchers – Literature review.

Unit II: Identification of Research Problem
Selecting the Research problem – Necessity of defining the problem – Goals and Criteria for identifying problems for research. Perception of Research problem – Techniques involved in defining the problem –Source of problems – Personal consideration.

Unit III: Research Design
Formulation of Research design – Need for Research design – Features of a good design – Important concepts related to Research design. Different research designs – Basic principles of experimental designs – Computer and internet in designs.

Unit IV: Interpretation and Report Writing
Meaning and Technique of interpretation – Precautions in interpretation – Significance of report writing – Different steps in writing a report – Layout of a Research report. Types of report – Mechanics of writing a research report – Precautions for writing research report – Conclusion.

Unit V: Statistical Techniques and Tools
Introduction of statistics – Functions – Limitations – Measures of central tendency - Arithmetic mean – Median – Mode – Standard deviation – Co-efficient of variation (Discrete serious and continuous serious) – Correlation - Regression – multiple Regression. Sampling distribution – Standard error – Concept of point and interval estimation – Level of significance – Degree of freedom – Analysis of variance – One way and two-way classified data – ‘F’-test.

P. Sumithra
17/8/2022
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Course Code:22PHDMBCW2

Research and Publication Ethics

Objectives

- To understand the philosophy of science and ethics, research integrity and publication ethics. To identify research misconduct and predatory publications.
- To understand indexing and citation databases, open access publications, research metrics (citations, h-index, impact Factor, etc.). To understand the usage of plagiarism tools.

Unit-I: Philosophy and Ethics

Introduction to philosophy: definition, nature and scope concept, branches. Ethics: definition, moral philosophy, nature of moral judgments and reactions.

Unit - II: 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- III: Publication Ethics

Publication 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 Practice.

Unit-IV: Open Access Publishing (PRACTICE)

Open access publications and initiatives. SHERPA/ROMEIO 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 Suggester, etc.

Unit -V: Publication Misconduct (PRACTICE)

Subject specific ethical issues, FFP, authorship Conflicts of interest Complaints and appeals: examples and fraud from India and abroad. Use of plagiarism software like Turnitin, Urkund and other open-source software tools

P. Sumithra
17/8/2022
Dr. P. SUMITHRA, M.Sc., M.Phil., M.Ed., Ph.D.
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Srimad Andavan Arts and Science College
T.V. Koil, Trichy - 05.

P.F. Steffi
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Cauvery College for Women,
Annamalai Nagar, Trichy-18.

S. Jenny
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Tiruchirappalli - 620 018.



V. Jayalatha
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Annamalai Nagar,
Tiruchirappalli - 620 018,
Tamilnadu.



SUB CODE: 23PHDMBCW1

PAPER I

RESEARCH AND PUBLICATION ETHICS

UNIT 1: PHILOSOPHY AND ETHICS

Introduction to philosophy: definition, nature and scope, concept, branches-Ethics: definition, moral philosophy, nature of moral judgements and reactions.

UNIT 2: 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 3: PUBLICATION ETHICS

Publication 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 behavior and vice versa, types-Violation of publication ethics, authorship and contributorship-Identification of publication misconduct, complaints and appeals-Predatory publishers and journals.

UNIT 4: 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 Suggester, etc.

UNIT 5: PUBLICATION MISCONDUCT

Group Discussions-Subject specific ethical issues, FFP, authorship-Conflicts of interest-Complaints and appeals: examples and fraud from India and abroad-Software tools-Use of plagiarism software like Turnitin, Urkund and other open source software tools.

UNIT 6: DATABASES AND RESEARCH METRICS

Databases-Indexing databases-Citation databases: Web of Science, Scopus, etc.-Research Metrics-Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score-Metrics: h-index, g index, i10 index, altmetrics.



References

1. Bird, A. (2006). Philosophy of Science. Routledge.
2. MacIntyre, Alasdair (1967) A Short History of Ethics. London.
3. P. Chaddah, (2018) Ethics in Competitive Research: Do not get scooped; do not get plagiarized, ISBN:978- 9387480865
4. National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009). On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition. National Academies Press.
5. Resnik, D. B. (2011). What is ethics in research & why is it important. National Institute of Environmental Health Sciences, 1-10. Retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm> Beall, J. (2012). Predatory publishers are corrupting open access. Nature, 489(7415), 179-179. <https://doi.org/10.1038/489179a>
6. Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance(2019) , ISBN:978-81-939482-1- 7. <http://www.insaindia.res.in/pdf/EthicsBook.pdf>

1. N. Reehana
9/5/2023

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2. V. Aruna
9/05/2023

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Assistant Professor
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Annamalainagar, Tiruchirappalli - 620 018.

3. S. Jeyabharathi
9/5/2023

Dr.S. JEYABHARATHI
M.Sc.,M.Phil.,PGDBI.,MLT.,Ph.D.,NET
Associate Professor,
PG and Research Department of Microbiology
Cauvery College for Women(A)
Tiruchirappalli - 620 018.

2



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Annamalainagar,
Tiruchirappalli - 620 018.
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TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.

Ph.D. **STATEMENT OF MARKS AND GRADES** MAY. 2022

Examinations of Post-Graduate Programmes Under Choice Based Credit System (CBCS)


Name of the Candidate SANDHIYA T		Register No. BDU2210282779815		Folio No. 0397	
Degree Ph.D.	Programme MICROBIOLOGY (Course Work)			Years of Study 2022	
Centre 42 - CAUVERY COLLEGE FOR WOMEN(AUTONOMOUS) TIRUCHIRAPPALLI 620 018					

Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Month & Year
		CIA	ESE	Total Max-100					
L-22PHDMBCW1	RESEARCH METHODOLOGY	25	65	90	10	0	4	PASS	MAY2022
L-22PHDMBCW2	RESEARCH AND PUBLICATION ETHICS	24	66	90	10	0	2	PASS	MAY2022
L-22PHDMBCW3	MEDICAL MICROBIOLOGY	25	65	90	10	0	4	PASS	MAY2022
L-22PHDMBCW4	PHARMACOLOGY AND TOXICOLOGY	25	67	92	10	0	4	PASS	MAY2022
***** END OF STATEMENT *****									


Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 14.
DATE: 07-06-2022

Current Semester Performance				Cumulative Performance				Performance
WAM	SGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT	
90.57	10.00	0	14	90.57	10.00	0	14	-----

For details of Grade & Grade point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
Passing Minimum in Examinations Programmes - CIA - 40%, ESE - 40% and Total - 50% (CIA + ESE)


 ANY UNAUTHORISED ALTERATION OR DELETION WILL MAKE THE MARKS STATEMENT INVALID

UNIT OFFICER / SECTION HEAD


 CONTROLLER OF EXAMINATIONS

Annamalai Nagar, Tiruchirappalli - 620 018, Tamil Nadu, South India.

Website : cauverycollege.ac.in Phone : 0431 - 2763939, 2751232 Fax : 0431 - 2751234

Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com



CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION - III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK

BHARATHIDASAN UNIVERSITY
(Accredited with A+ Grade by NAAC in the Third Cycle)
TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.

Ph.D. **STATEMENT OF MARKS AND GRADES** JAN. 2023
Examinations of Postgraduate Programmes Under Choice Based Credit System (CBCS)


Name of the Candidate THIRUMALAIYAMMAL B		Register No. BDU2220282779994		Folio No. 0975	
Degree Ph.D.	Programme MICROBIOLOGY (Course Work)			Years of Study 2022	
Centre 42 - CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TIRUCHIRAPPALLI 620 018					


Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Month & Year
		CIA	ESE	Total Max-100					
1-22PHDMBCW1	RESEARCH METHODOLOGY	18	52	70	8	A	4	PASS	JAN2023
1-22PHDMBCW2	RESEARCH AND PUBLICATION ETHICS	18	54	72	8	A	2	PASS	JAN2023
1-22PHDMBCW8	ENVIRONMENTAL MICROBIOLOGY AND BIODEGRADATION	17	52	69	7	B+	4	PASS	JAN2023
1-22PHDMBCW9	ALGAL TECHNOLOGY	16	55	71	8	A	4	PASS	JAN2023
***** END OF STATEMENT *****									

Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 14.
DATE: 08-03-2023

Current Semester Performance				Cumulative Performance				Performance
WAM	SGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT	
70.28	7.71	A	14	70.28	7.71	A	14	-----

For details of Grade & Grade point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
Passing Minimum - For Degree Programmes - CIA - 40%, ESE - 40% and Total - 50% (CIA + ESE)


 ANY UNAUTHORISED COPIES WILL MAKE THE MARKS STATEMENT INVALID


 UNIT OFFICER / SECTION HEAD

CONTROLLER OF EXAMINATIONS

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Department of Tamil



தமிழாய்வுத்துறை
காவேரி மகளிர் கல்லூரி
(தன்னாட்சி)



முனைவர் பட்ட ஆய்வறிஞர்குழு அறிக்கை
பார்வை எண் : BDU2220632779956

“தமிழ்மொழி வளர்ச்சிக்குக் கணினியும் இணையமும்” எனும் தலைப்பில் பகுதிநேர முனைவர் பட்ட ஆய்வை மேற்கொண்டுள்ள செல்வி கு. நிவேதா அவர்களுக்கான முனைவர் பட்ட ஆய்வறிஞர் குழுக் கூட்டம் காவேரி மகளிர் கல்லூரி (தன்னாட்சி), தமிழாய்வுத்துறையில் 06.06.2022 திங்கட்கிழமை அன்று காலை 11.00 மணியளவில் நடைபெற்றது. ஆய்வறிஞர்குழு உறுப்பினர்கள் பேரா. முனைவர் ச. இராமலட்சுமி, தலைவர், தமிழாய்வுத்துறை, காவேரி மகளிர் கல்லூரி (தன்னாட்சி), திருச்சிராப்பள்ளி 620018 மற்றும் முனைவர் ஜா.பெஞ்சமின் ஆரோன் டைட்டஸ், உதவிப்பேராசிரியர், தமிழாய்வுத்துறை, தூய வளனார் தன்னாட்சிக் கல்லூரி, திருச்சிராப்பள்ளி 620002, ஆகிய இருவரும் கலந்துக் கொண்டனர்.

“தமிழ்மொழி வளர்ச்சிக்குக் கணினியும் இணையமும்” என்னும் ஆய்வுத் தலைப்புக்குத் தேவையான முதன்மைச் சான்றுகளையும், துணைமைச் சான்றுகளையும் ஆய்வாளர் திறம்பட ஆய்வறிஞர்குழுவின் முன்பாக சமர்ப்பித்தார். ஆகவே ஆய்வாளர் மேற்குறித்த தலைப்பில் தொடர்ந்து ஆய்வு நிகழ்த்தலாம் என்று ஆய்வறிஞர்குழு பல்கலைக்கழகத்திற்கு பரிந்துரை செய்கிறது.

ஆய்வாளர் ஆய்வியல் நிறைஞர் (M.Phil) பட்டத்தை நிறைவு செய்துள்ளதால் பாரதிதாசன் பல்கலைக்கழக முனைவர் பட்ட விதிமுறைகளின்படி கீழ்க்காணும் மூன்று தாள்களை (Course Work) ஆய்வறிஞர்குழு பரிந்துரை செய்கிறது. கீழ்க்கண்ட தாள்களை முதுகலையில் ஆய்வாளர் பயிலவில்லை என்றும் சான்றளிக்கப்படுகிறது.

1. ஆய்வு மற்றும் வெளியீட்டு அறநெறிகள் (PhTA22PT01)
2. கணினியும் தமிழும் (PhTA22PT02)
3. இணையமும் தமிழும் (PhTA22PT03)

ஆய்வறிஞர்குழு உறுப்பினர்கள்

சு. பெஞ்சமின் ஆரோன் டைட்டஸ் 6/6/2022

முனைவர் ஜா. பெஞ்சமின் ஆரோன் டைட்டஸ்
உதவிப்பேராசிரியர்,
தமிழாய்வுத்துறை,
தூய வளனார் தன்னாட்சிக் கல்லூரி,
திருச்சிராப்பள்ளி 620002

முனைவர் ச. இராமலட்சுமி 6/6/22

முனைவர் ச. இராமலட்சுமி
தலைவர், தமிழாய்வுத்துறை,
காவேரி மகளிர் கல்லூரி (தன்னாட்சி),
திருச்சிராப்பள்ளி - 620018

முனைவர் பகுதிநேர
நெறியாளர்,
உதவிப்பேராசிரியர்,
தமிழாய்வுத்துறை,
காவேரி மகளிர் கல்லூரி (தன்னாட்சி),
திருச்சிராப்பள்ளி - 620018

முனைவர் ச. இராமலட்சுமி 6/6/22

முனைவர் ச. இராமலட்சுமி
தலைவர், தமிழாய்வுத்துறை,
காவேரி மகளிர் கல்லூரி (தன்னாட்சி),
திருச்சிராப்பள்ளி - 620018



Principal
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Annamalai Nagar,
Tiruchirappalli - 620 018,
Tamilnadu.

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Phone : 0431 - 2751232 E-mail : tam@cauverycollege.ac.in



Paper Code : PhTA22PT01

Credits : 02

RESEARCH AND PUBLICATION ETHICS

Objectives:

- To acquire knowledge on basics of Philosophy of Science and ethics.
- To Study Identification of Publication misconduct.
- To learn about the Plgiarism tools.

Unit 1: Philosophy and Ethics

1. Introduction to Philosophy: definition nature and scope, Concept, brnches.
2. Ethics: definition, moral philosophy, nature of moral judgements and reactions.

Unit 2: Scientific conduct

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

Unit 3: Publication Ethics

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

Unit 4: Open access publishing

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

Unit5: Publication Misconduct

- A. Group Dicussion
1. Sunject specific ethical issues, FFP, authorship
 2. Conflicts of interest.
 3. Complaints and appeals: examples and fraud from and abroad.
- B. Software Tools
- Use of plagiarism software like Turnitin, Urkund and other open source software tools.

Unit 6 : Database and Research Metrics

- A. Database
1. Indexing databases.
 2. Citation database: Web of Science, Scope etc.
- B. Research Meterics
1. Impact factor of Journal as per Journals citation Report, SNIP,SJR, IPP, Cite Score..
 2. Meterics: h – index, g index, g-h Index, i10 index, h-b index, z-index and altmetrics



References:

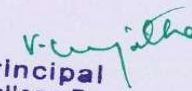
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16/6/22

முனைவர். பி. சசி ரேகா
உதவிப் பேராசிரியர்
தமிழாய்வுத்துறை
காவேரி மகளிர் கல்லூரி (தன்னாட்சி)
திருச்சிராப்பள்ளி-620 018.
Email: p.sasirekha18@gmail.com


16/6/22
பேரா.முனைவர். ச. இராமலட்சுமி
தலைவர், தமிழாய்வுத்துறை
காவேரி மகளிர் கல்லூரி (தன்னாட்சி)
திருச்சி - 620 018




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CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION - III

RESEARCH ETHICS IN THE RESEARCH METHODOLOGY COURSE WORK

BHARATHIDASAN UNIVERSITY
(Accredited with A+ Grade by NAAC in the Third Cycle)
TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.

Ph.D. **STATEMENT OF MARKS AND GRADES** OCT. 2022
Examinations of Post Graduate Programmes Under Choice Based Credit System (CBCS)

Name of the Candidate NIVETHA K		Register No. BDU2220632779956	Folio No. 0754	
Degree Ph.D.	Programme TAMIL (Course Work)		Years of Study 2022	
Centre 42 - CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TIRUCHIRAPPALLI 620 018				

Sem. Course Code	Course Title	Marks Secured			Grade Point	Grade	Credit	Result	Month & Year
		CIA	ESE	Total Max-100					
1-PHTA22PT01	RESEARCH AND PUBLICATION ETHICS	22	50	72	8	A	2	PASS	OCT2022
1-PHTA22PT02	COMPUTER AND TAMIL	23	47	70	8	A	4	PASS	OCT2022
1-PHTA22PT03	INTERNET AND TAMIL	23	48	71	8	A	4	PASS	OCT2022
***** END OF STATEMENT *****									

Declaration: A candidate is declared to have completed the Ph.D Course Work Programme successfully only when the Cumulative Credits Earned is a minimum of 10.
DATE: 21-11-2022

Current Semester Performance				Cumulative Performance				Performance
WAM	SGPA	GRADE	CREDIT	WAM	CGPA	GRADE	CREDIT	
70.80	8.00	A+	10	70.80	8.00	A+	10	-----

For details of marking point, see overleaf. AAA - Absent, RA - Reappearance, CIA - Continuous Internal Assessment, ESE - End Semester Examinations.
Passing Requirement: For Post Graduate Programmes - CIA - 40%, ESE - 40% and Total - 50% (CIA + ESE)

CONTROLLER OF EXAMINATIONS

UNIT OFFICER / SECTION HEAD

ANY UNAUTHORIZED CORRECTION WILL MAKE THE MARKS STATEMENT INVALID

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