3.4.1

1. Inclusion of Research Ethics in the Research Methodology course work

THEORY OF HISTORY AND METHODS OF RESEARCH

Programme : M.Phil., Semester : I Course Code : 20MHIC11

Part : Core - 1 Hours : 6 Credits : 4

Course Outcomes:

CO1: Trace the definitions and theories in historical studies.

CO2: Ability to learn the scientific research methodology in history.

CO3: Discuss thesis and dissertation writing practice for the research scholars.

UNIT I

Meaning and Nature of History – Definition - Art or Science - Lessons of History -Causation and Change - Role of Ideas - Role of Individuals - Theory of Repetition - Concept of Progress - Recent Trends - Post-Modernism - Annals School - Subaltern Studies.

UNIT II

Philosophy of History - Theological Interpretation - St. Augustine - Historical Determinism -Romantic Idealism - Immanuel Kant and Hegel: Great man theory - Thomas Carlyle; Dialectical Materialism - Karl Marx -A.J. Toynbee - Theory of Challenge and Response.

<u>UNIT III</u>

Development of Historical Method - Aims, Objectives and Kinds of Research – Sources -Primary and Secondary - Sources for History of India - Ancient, Medieval and Modern - Sources for History of Tamil Nadu - Ancient, Medieval and Modern.

UNIT IV

Requisites of a Scholar - Selection of Topic for Research – Collection of Data -Bibliographical Collection - Card file – Analysis - External and Internal Criticism - Synthetic Operation - Preparation of outline.

UNIT V

Writing of History - Formulation of Hypothesis – Objectivity and Subjectivity - Mechanics of Thesis Writing - Requirements for M.Phil. Dissertation and Ph.D. thesis - Foot Notes – Documentation -Bibliography, Notes and References – Appendix – Preparing a research paper. Research project and thesis – Publication - Proof Reading Techniques - Index, Dell net, Sodhganga etc. - Ethics in Historical writing – Plagiarism



PRINCIPAL Hajee Karutha Rowther Howdia Colleg∈ (Autonomous) UTHAMAPALAYAM-625533.

7

M.Phil COMMERCE

	Course Code	Course Title	Category	L	Т	Р	Credit
-	20MCRC11	Research Methodology	Core	90			-4

Preamble

To provide awareness and skills to distinguish between the theoretical issues of research and practical consideration of research design and also to inculcate the skill of data collection and data analyses and dissemination.

Course Outcomes (CO)

On the successful completion of this course, scholars will be able to

No.	Course Outcomes	Knowledge Level (According to Bloom's Taxonomy)
COI	Explain the key elements of social research and identification of research problem and research gap	К2,К3 & К4
CO2	Focusing the appropriate research route (methodology, framing and testing of hypothesis)	K2. K3 & K4
CO3	Explain the instruments to be used in planning and analyzing the primary and secondary data to conduct scholarly research project	K2, K3 & K4
CO4	Explore the relevant statistical tools to be applied in supporting the research issues	K2. K3 & K4
CO5	Focusing the exercise involved in the preparation of report writing	K2. K3. K4 & K5

K1 – Knowledge K2 – Understand K3- Apply K4 – Evaluate K5 - Create

Mapping of CO with PO

	PO 1	PO 2	PO 3	PO 4	PO 5
COI	S	S	S	S	S
CO2	S	S	M	S	S
CO3	S	S	S	S	S
CO4	S	S	M	S	S
CO5	S	S	S	S	
S- Strong	M-	Medium	L-Lo	W.	

SYLLABUS

UNIT I

Research – Definition – Objectives – Types: Pure, applied – Methods: Case Study, Survey – Research Problem – Definition, essentials, Sources – Research Design – Meaning, steps and significant.

UNIT H

Sampling – Meaning, steps criteria – Methods – Sampling error – Hypothesis – Concepts, steps, sources – Testing of Hypothesis – Chi-square test, 't' test, 'z' test and 'f' test – Limitations.

UNIT III

Data Collection – Primary – Sources techniques – Observation – Interview types, essentials and limitations – Questionnaire & Schedule – Designing – Reliability & Validity – Scaling technique – Pre-testing – Pilot study.

UNIT IV

Data Processing: Meaning, steps – interpretation – Analysis of data – Types of Analysis – Tools of analysis – Correlation-regression, Multivariate analysis.

UNIT V

Report writing – Meaning, target groups – Format – steps in writing – Introduction to Areas of Research. Ethics in Report writing – Plagiarism –Submission of Report



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RESEARCH METHODOLOGY

Programme	: M. PHIL English	Part	: Core - I
Semester	: 1	110010	: 6
Course Code	: 20MENC11	Credits	: 4

Course Outcomes

CO1: Identify the research areas and to develop new

ideas CO2: Ability to write and present research

thesis/ proposals

CO3: Apply the methods and dimensions of research methodology

UNIT I

A. Research and Writing

- 1. The Research Paper as a Form of Exploration
- 2. The Research Paper as a Form of Communication
- 3. Selecting a Topic
- 4. Conducting Research
- 5. Compiling a Working Bibliography
- 6. Evaluating Sources
- 7. Taking Notes
- 8. Outlining
- 9. Writing Drafts
- 10. Language and Style

B. Plagiarism

- 1. Definition of Plagiarism
- 2. Consequences of Plagiarism
- 3. ation Sharing Today
- 4. Unintentional Plagiarism
- 5. Forms of Plagiarism
- 6. When Documentation is Not Needed
- 7. Other Issues Such as Reusinga Research Paper Collaborative work and Copyright Infringement

UNIT II

The Mechanics of Writing

- 1. Spelling
- 2. Punctuation
- 3. Italics (Underlining)
- 4. Names of Persons

5. Numbers

6. Titles of the Works in the Research Paper

7. Quotations

8. Capitalization and Personal Names in Languages

UNIT III

The Format of the Research Paper

- 1. Margins
- 2. Text Formatting
- 3. Heading and Title
- 4. Page Numbers
- 5. Tables and Illustrations
- 6. Paper and Printing
- 7. Correction and Insertions
- 8. Binding
- 9. Electronic Submission

UNIT IV

A. Documentation: Preparing the List of Works Cited

- 1. Documenting Resources
- 2. MLA Style
- 3. List of Works Cited
- 4. Citing Periodical and Nonperiodical Print Publications
- 5. Citing Web Publications
- 6. Citing Additional Common Resources
- 7. More than One Publication Medium

B. Documentation: Citing Sources in the Test

- 1. Parenthetical Documentation and the List of Works Cited
- 2. Information Required in Parenthetical Documentation
- 3. Readability
- 4. Sample References
- 5. Using Notes with Parenthetical Documentation

UNIT V

A. Other Systems of Documentation

- 1. Endnotes and Footnotes
- 2. Author Data System
- 3. Number System
- 4. Specialized Style Manual

B. Abbreviation

- 1. Introduction
- 2. Time Designation
- 3. Geographic Names
- 4. Common Scholarly Abbreviation
- 5. Publisher's Name
- 6. Symbols and Abbreviation Used in Proofreading and Correction



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I Semester

OBJECTIVES

- 1. To Know the primary and secondary sources in literature survey
- 2. To Understand the concept of documentations in thesis writing
- 3. To Learn the needs of various tests in error analysis
- 4. To Study the C language and its applications in chemistry
- 5. To Ascertain various instrumentation methods

UNIT 1- Literature search

Searching the chemical literature, primary sources- journals and patents, secondary sources-Beilstein, reviews, periodicals-serials-monograph and text booksdictionaries, encyclopedias, catalogues and index of tabulated data, location data, location of published and comprehensive account of research with special reference to physical, organic and inorganic chemistry. Inductive and deductive reasoning-role of experimentation-interpretation of results-formation-testing and rejection of hypothesis- Getting idea on impact factor of journals-Leading funding agencies in India- Submission of research project proposals.

UNIT 2 - Thesis writing

Thesis layout: Format of title page, certificates, declaration, Preface, acknowledgements and table contents. Text of the thesis: Chapter division and subdivision-use of centered reading, side heading and paragraph heading. Quotations: When, what and how to use quotations, interpolation of quotations. Footnotes, tables and figures: Format.conventions and referencing. Documentation: Methodology of writing references-MLA and APA style. Editing and evaluating: Basic idea of editing, revising and evaluating the thesis. Ethics and research Plagiarism.

UNIT 3 - Error in chemical analysis and statistics

Classification of errors-accuracy-precision-minimization of errors-mean-standard deviation-Normal or Gaussian distribution-Reliability of results-Confidence interval-comparisionofresults-Student's t-test, F test, paired t-test-correlation and regression-the least square method for deriving calibration plots like straight line-Analysis of variance (ANOVA)- Pearson correlation coefficient-r value.

UNIT 4 - Computers in chemistry

Data types: int, short, long int, float, double and long double; variable and scope. Global and static operators: assignment, caching. precedence automatic register and associatively:programselection:if-else operators-ternary switch logical operator statement:Repetition:while.do-while and for loops, gotostatement;functions, void, Return statement, invoking functions, passing arguments-protyping.

Array: Single dimensional arrays.accessing arrays.initializing and copying arrays.array as function arguments-multidimensional arrays.

Simple C programming applications in chemistry such as van der waals equation, pH titration, kinetics, radioactive decay, evaluation of lattice energy and ionic radii from experimental data. Use of computer in literature search, significance of chemdraw-drawing chemical structure-paste them in the text.

UNIT 5 - Analytical Chemistry

Electro Chemical methods: Voltammetry – principles-linear sweapvoltammetry-cyclic voltammetry, differential pulse voltammetry-electrodes and electrolytes- pulse polarographic methods-applications.

Principles and instrumentations of Atomic Force Microscopy(AFM), powder XRD.Scanning Electron Microscopy(SEM). Transmission Electron Microscopy (TEM)and HRTEM. Scanning Tunneling Spectroscopy(STS), Scanning Tunneling Microscopy(STM). Thermo gravimetric Analysis(TGA). Differential Thermal Analysis(DTA). Differential Scanning Colorimetry(DSC)



PRINCIPAL Hajee Karutha Rowther Howdia College (Autonomous) UTHAMAPALAYAM-625533.

6

3.4.1

2. Research Ethics Committee members and minutes for the Last five years



Hajee Karutha Rowther Howdia College, Uthamapalayam

Meeting of Ethics Committee

Minutes

Date: 1/7/2019

Venue: Office of the CIAE

Time: 10.30 am

Agenda

· Use of Plagiarism Software

Members Present

Name	Signature
Dr. H. Mohamed Meeran, Principal, Chairman.	He
Dr. S. Varghese Jeyaraj, Coordinator.	Dinnis
Dr. M. Charles Robert, Member.	and 2
Dr. K. Abdul Rahim, Member.	& Its lie Rehing
Dr. A. Sulthan Mohideen, Member.	N. Juken el-hikacy

Decisions Taken

- It has been resolved to instruct the staff members who are about the submit their PhD theses, to contact the Librarian, Madurai Kamaraj University to register their names for the purpose of plagiarism checking process.
- It has been resolved to instruct the staff who shall submit their theses to obtain relevant certificate for the completion of plagiarism check up from the Madurai Kamaraj University.



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PRINCIPAL Hajee Karutha Rowther Howdia College (Autonomous) UTHAMAPALAYAM-625533.



Hajee Karutha Rowther Howdia College, Uthamapalayam

Meeting of Ethics Committee

Minutes

Date: 2/7/2018

Venue: IQAC office

Time: 11.00 am

Agenda

· Plagiarism Software

Members Present

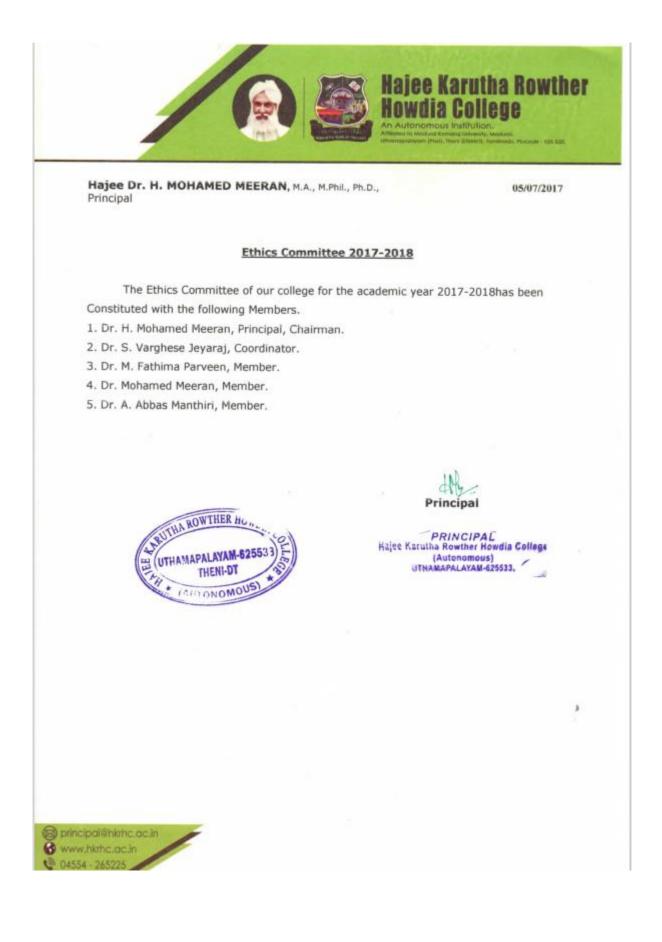
Name	Signature		
Dr. H. Mohamed Meeran, Principal, Chairman.			
Dr. S. Varghese Jeyaraj, Coordinator.	ormer		
Dr. M. Fathima Parveen, Member.	M. Impalen		
Dr. M. Mohamed Meeran, Member.	of up oferral		
Dr. A. Abbas Manthiri, Member.	A. Klas Mary.		

Decisions Taken

- It has been resolved to instruct the staff engaged in research to get their contents checked through Plagiarism software.
- It has been resolved to inform the staff publishing research articles to make use of the Plagiarism Software available with Shanlax publications with which our college has signed MoU for this purpose.



PRINCIPAL Hajee Karutha Rowther Howdia College (Autonomous) UTHEAN SLAYAM-625533



Hajee Karutha Rowther Howdia College, Uthamapalayam

Meeting of Ethics Committee

Minutes

Date: 10/7/2017

Venue: Office of the Academic Deans

Time: 10.30 am

Agenda

· Publications of Books

Members Present

Name	Signature
Dr. H. Mohamed Meeran, Principal, Chairman.	dille
Dr. S. Varghese Jeyaraj, Coordinator.	amis
Dr. M. Fathima Parveen, Member.	M. In-palen
Dr. M. Mohamed Meeran, Member.	of de openan
Dr. A. Abbas Manthiri, Member.	A. Allas Maxing.

Decisions Taken

- · It has been resolved to inform the staff members to publish books with ISBN
- It has been resolved to intimate the staff members, to inform the Universities and Colleges to recommend their books as prescribed text books in their Institutions.
- It has been resolved to instruct the staff engaged in research to strictly adhere to the ethics



PRINCIPAL Hajee Karutha Rowther Howdia College (Autonomous) UTHAMAPALAYAM-625533.



Hajee Karutha Rowther Howdia College, Uthamapalayam

Meeting of Ethics Committee

Minutes

Date: 8/7/2016

Venue: Office of the IQAC

Time: 11.00 am

Agenda

- · Discussion on Research Publications of Books
- · Discussion on Research Articles.

Members Present

Name	Signature
Dr. H. Mohamed Meeran, Principal, Chairman.	Alle
Dr. S. A. Noor Mohamed, Coordinator.	1 Ett
Dr. G. Ramanan, Member,	Amar
Dr. M. Kamal Nasar, Member.	the Da
Dr. S. Hasan Banu, Member.	S. Hasan Barn

Decisions Taken

- It has been decided to instruct the staff members to publish their books with ISBN.
- It has been decided to instruct the staff members to publish their research articles only in the U.G.C approved journals



PRINCIP AL Hajee Karutha Rowther Howdia College (Autonomous) UTHAMAPALAYAM-625533.



Hajee Karutha Rowther Howdia College, Uthamapalayam

Meeting of Ethics Committee

Minutes

Date: 6/7/2015

Venue: Office of the Academic Deans

Time: 11.00 am

Agenda

- · Discussion on Research guidelines of the University
- Discussion on Research Topics.

Members Present

Name	Signature
Dr. H. Mohamed Meeran, Principal, Chairman.	dib
Dr. K. Nathar, Coordinator.	X. malts
Dr. G. Ramanan, Member.	Buner
Dr. M. Kamal Nasar, Member.	in Us
Dr. S. Hasan Banu, Member.	S. Harau Dam

Decisions Taken

- It has been decided to insist the teaching staff to strictly follow the research guidelines published by the Universities in the book lets, issued to the staff at the time of Ph.D. registration
- It has been decided to advice the teaching staff to select research topics which will be useful for solving the social problems.



PRINCIPAL Hajee Karutha Rowther Howdia College (Autonomous) UTHAMAPALAYAM-625533

3.4.1

3. Plagiarism checking Software

Copyleaks Inc.

700 Canal St. Stamford, Connecticut 06902 United States +1 855-633-9355 support@copyleaks.com

Bill to The Principal IND hkrhcollege@gmail.com

\$109.90 due Jun 26, 2021

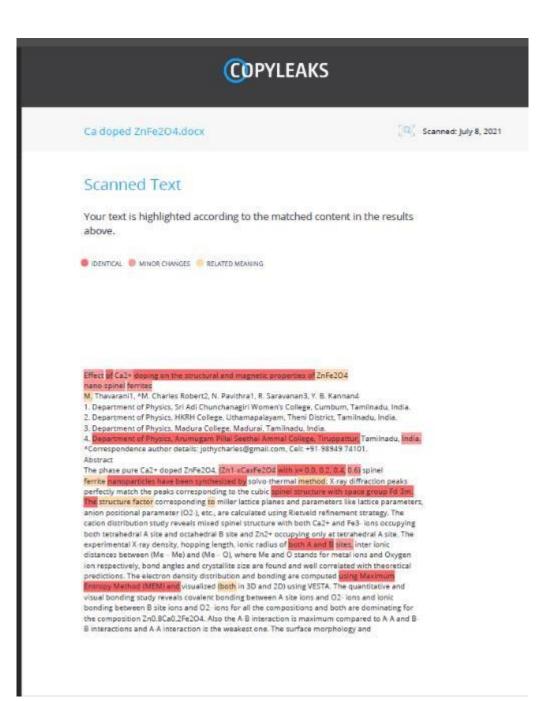
Invoice numberBF7C8AFE-0001Date of issueJun 26, 2021Date dueJun 26, 2021

Invoice

Description	Qty	Unit price	Amount
JUN 26, 2021 - JUN 26, 2022			
Education (per pages)	1,200	\$109.90 per 1200	\$109.90
		Subtotal	\$109.90
		Amount due	\$109.90

Pay \$109.90 with card Visit https://invoice.stripe.com/i/acct_1IFasMEbGD5vhCjO/invst_Jk1lhccHl7FGxUV3UHWWNYnrqNCcmCW

Ca doped ZnFe20 Scanned on: July 8,				
0verall Similarity Score	726			
Words with Minor Changes Words with Related Meaning	123 83			
Ommited Words	0			
COPYLEAKS Main Website Education Businesses				



3.4.1

4. Research Advisory Committee members and minutes for the Last five years



Hajee Karutha Rowther Howdia College Uthamapalayam

Meeting of Research Advisory Committee

Minutes

Date: 1/7/2019

Venue: CIAE Room

Time: 11.00 am

Agenda:

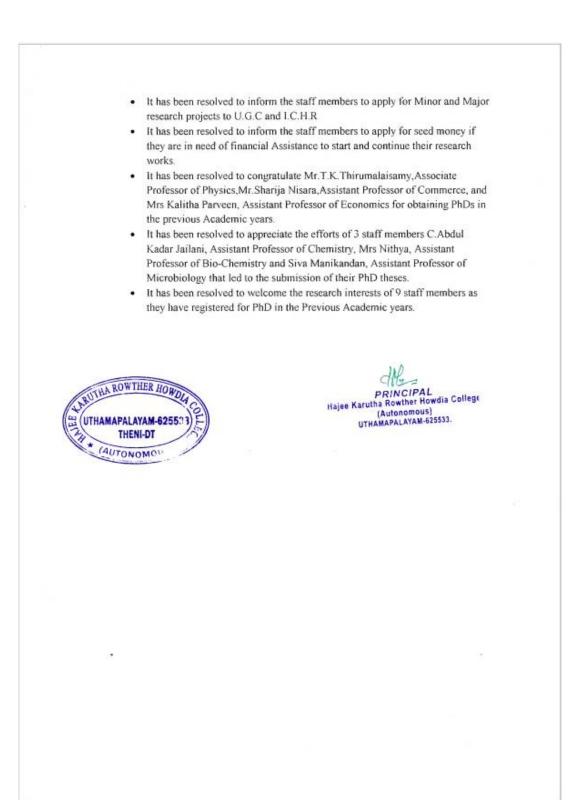
- To advice the staff members to get their research articles placed in scopes ,H.Index and citation
- · To instruct the staff to apply for research projects.
- · To inform the staff to apply for seed money
- To convey congratulation to PhD awarded staff and the staff submitted their PhD theses.

Members Present

Name	Signature
Dr. H. Mohamed Meeran, Principal, Chairman.	dt
Dr. S. Varghese Jeyaraj, Coordinator.	Samo
Dr. T. K. Thirumalaisamy, Member.	Quinny
Dr. M. Santhi, Member.	Missou
Dr. M. Mohamed Meeran, Member.	of . and of anne
Dr. A. Abbas Manthiri, Member.	A. Alles Mary

Decisions Taken

 Due weightage is given to the research articles with scopes, H.Index and citation in the NACC Accreditation. Therefore it has been resolved to advice the staff members to publish their articles with the value of stated research platforms.





Hajee Karutha Rowther Howdia College Uthamapalayam

Meeting of Research Advisory Committee

Minutes

Date: 2/7/2018

Venue: IQAC Room

Time: 10.30 am

Agenda:

- · To discuss the list of U.G.C approved journals
- · To congratulate the 3 staff members for their completion of PhDs. .
- To acknowledge the efforts of 3 staff members for their submission of PhD theses.

Members Present

Name	Signature
Dr. H. Mohamed Meeran, Principal, Chairman.	He.
Dr. S. Varghese Jeyaraj, Coordinator.	erms
Dr. B. Akbar Ali, Member.	Junet
Dr. K. Shahul Hameed, Member.	RSUIJEA
Dr. M. Peer Mohamed, Member.	M.Jami,
Dr. A. Mohamed Mansoor, Member.	And wow we
Dr. M. Santhi, Member.	Misse

Decisions Taken

- It has been resolved to instruct the staff members to keep on referring to the U.G.C website to make note of the U.G.C approved journals so as to publish research articles only in the list given by the U.G.C.
- It has been resolved to congratulate Mr.P.Murugan, Assosiate Professor of Tamil, Mr Sajid Ahamed, Assistant Professor of Microbiology and Mrs Kavimani, Assistant Professor of B.B.A for their successful completion of PhDs.

- It has been resolved to acknowledge the efforts of Mr.T.K. Thirumalaisamy, Associate Professor of Physics, Mrs Kalitha Parveen, Assistant Professor of Tamil, Mrs Sharija Nisara, Assistant Professor of Commerce towards their submission of PhD theses.
- It has been resolved to instruct those who registered for PhD and M.Phil holders to complete the PhD as soon as possible



PRINCIPAL Hajee Karutha Rowther Howdia College (Autonomous) UTHAMAPALAYAM-625533.



Hajee Karutha Rowther Howdia College Uthamapalayam

Meeting of Research Advisory Committee

Minutes

Date: 10/7/2017

Venue: Office of the Academic Deans

Time: 11.30 am

Agenda:

- To congratulate the staff obtained PhD.
- To congratulate the two staff submitted PhD theses.
- · To instruct the two staff registered for PhD to speed up their theses works.
- To acknowledge the M.Phil degrees of 3 staff.
- Publication of research articles only in the U.G.C recognised journals.

Members Present

Name	Signature
Dr. H. Mohamed Meeran, Principal, Chairman.	He
Dr. S. Varghese Jeyaraj, Coordinator.	52mmB
Dr. B. Akbar Ali, Member.	Surret
Dr. K. Shahul Hameed, Member.	RSUUD
Dr. M. Peer Mohamed, Member.	M.P-m/s
Dr. A. Mohamed Mansoor, Member.	Somo manm
Dr. M. Santhi, Member.	M. 5_52,-

Decisions Taken

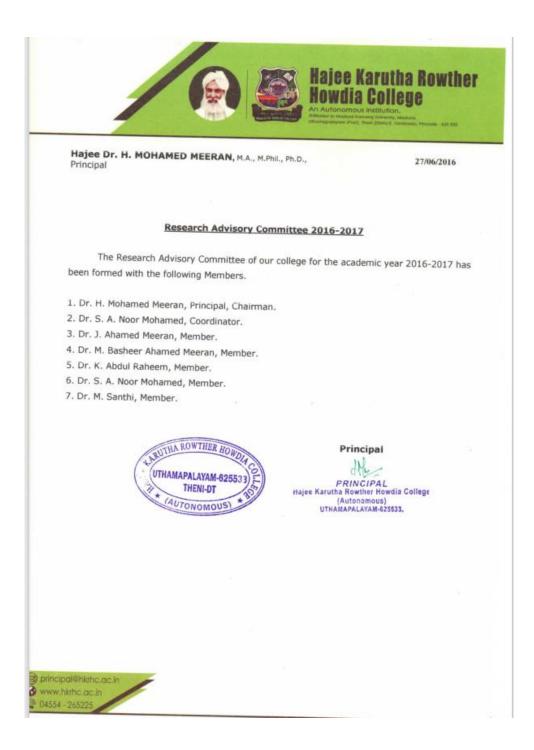
- It has been resolved to congratulate Mr. Abdul Khader, Assistant Professor of Tamil and Mrs Anitha, Assistant Professor of Maths for the successful completion of PhDs.
- It has been decided to recognise the efforts of Mrs Kavimani, Assistant Professor of B.B.A and Mr.Sajid Ahamed, Assistant Professor of Microbiology that led them to submit their PhD theses.

- It has been decided instruct Mr. Mohamed Abdul Khader, Assistant Professor of Commerce and Mr Shibadullah, Assistant Professor of Commerce C.A to finish their PhDs at the earliest.
- · It has been resolved to instruct the M.Phil holders to register for PhD
- It has been resolved to inform the staff to publish their research only in the U.G.C approved journals so as to get incentives.



PRINCIPAL Hajee Karutha Rowiner Howdia College (Autonomous) UTHAMAPALAYAM-625533.

4.2



Hajee Karutha Rowther Howdia College Uthamapalayam

Meeting of Research Advisory Committee

Minutes

Date: 30/6/2016

Venue: IQAC Room

Time: 10.30 am

Agenda:

- · To congratulate the staff who obtained PhD.
- · To provide incentives for the publications of research articles.
- · To ask the staff doing PhD to expedite their works.
- · To appreciate the efforts of the staff for their submission of PhD theses.
- · To congratulate the staff for the completion of M.Phil. Degrees.

Members Present

Name	Signature
Dr. H. Mohamed Meeran, Principal, Chairman.	Alle
Dr. S. A. Noor Mohamed, Coordinator.	3-171
Dr. J. Ahamed Meeran, Member.	Amile
Dr. M. Basheer Ahamed Meeran, Member.	M. Bark Ahrson
Dr. K. Abdul Rahim, Member.	K. Abdul Rohin.
Dr. N. Mohamed Sameem, Member.	N. M. Jong
Dr. M. Santhi, Member.	N.M. Jong.

Decisions Taken

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- It has been resolved to congratulate Major Dr. M. Hakeem, Associate Professor of Chemistry, Dr.Pon Mozhi, Assistant professor of I.T and Dr.Geetha, Assistant Professor of Bio Chemistry for obtaining PhD.
- It has been resolved to provide better incentives to the staff, publishing research articles in the U.G.C recognised journals.

- It has been resolved to advice the 10 staff members who registered for PhD to expedite their PhD works.
- It has been resolved to encourage the staff members to publish research articles in the U.G.C recognized journals.
- It has been resolved to appreciate the efforts of Mr.P.Perumal and Mrs.Anitha, Assistant Professors to submit their PhD theses.
- It has been resolved to acknowledge the M.Phil degrees of the two staff members



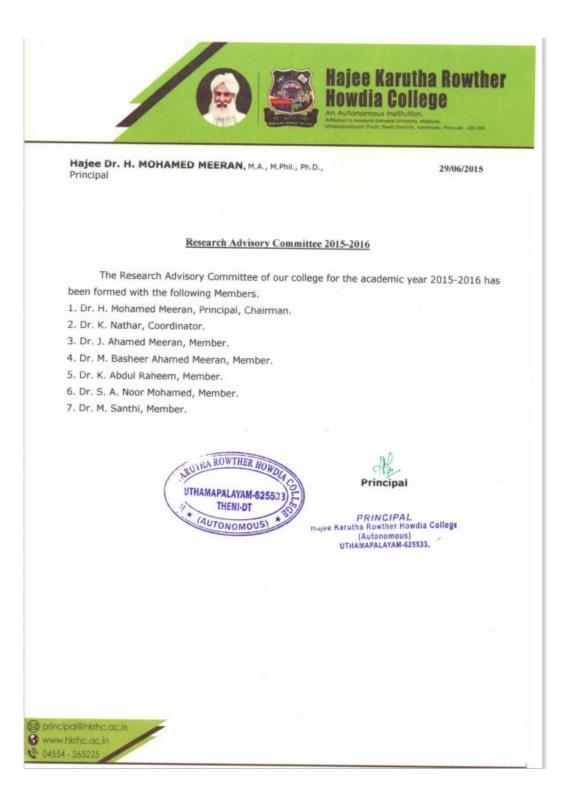
PRINCIPAL Hajee Karutha Rowther Howdia College (Autonomous) UTHAMAPALAYAM-625533.

- It has been decided instruct Mr. Mohamed Abdul Khader, Assistant Professor of Commerce and Mr Shibadullah, Assistant Professor of Commerce C.A to finish their PhDs at the earliest.
- · It has been resolved to instruct the M.Phil holders to register for PhD
- It has been resolved to inform the staff to publish their research only in the U.G.C approved journals so as to get incentives.



5.0

PRINCIPAL Hajee Karutha Rowiner Howdia College (Autonomous) UTHAMAPALAYAM-625533.



Hajee Karutha Rowther Howdia College Uthamapalayam

Meeting of Research Advisory Committee

Minutes

Date: 6/7/2015

Venue: Office of the Academic Deans

Time: 11.00 am

Agenda:

- · To congratulate the staff obtained PhD.
- · To instruct the staff to register for PhD.
- · To encourage the staff to publish research articles.
- To discuss research projects.

Members Present

Name	Signature
Dr. H. Mohamed Meeran, Principal, Chairman.	dthe.
Dr. K. Nathar, Coordinator.	2 wate
Dr. J. Ahamed Meeran, Member.	thingthe
Dr. M. Basheer Ahamed Meeran, Member.	I Buch tender
Dr. K. Abdul Rahim, Member.	K. Ashe Rohin.
Dr. S. A. Noor Mohamed, Member.	8.54

Decisions Taken

- It has been resolved to congratulate the staff members who have completed PhD degrees in the Academic Year 2014-2015.
- Since the number of staff with PhD is yet to be increased, it has been resolved to instruct the staff members who have not registered for PhD, to do the same at the earliest.
- It has been resolved to encourage the staff members to publish research articles in the U.G.C recognized journals.
- It has been resolved to advice the staff members to apply for minor and major research projects getting funds from the U.G.C and other funding agencies.



PRINCIPAL Hajee Karutha Rowther Howdia College (Autonomous) UTHAMAPALAYAM-625533.