



INTER UNIVERSITY CENTRE FOR TEACHER EDUCATION
REGIONAL INSTITUTE OF EDUCATION, MYSORE
(NCERT, NEW DELHI)

CERTIFICATE IN
EDUCATIONAL RESEARCH METHODOLOGY
(CERM)

A blended learning programme with a focus on educational research methods



Offered by the
INTER UNIVERSITY CENTRE FOR TEACHER EDUCATION
REGIONAL INSTITUTE OF EDUCATION
Mysuru-570006

ABOUT THE PROGRAMME

The Certificate in Educational Research Methodology (CERM) is a programme designed for a target group of professionals working in formal or informal government or private systems of education having a concern and responsibility for conducting research. This 16-credit programme, organised under four modular courses and a project work, can be completed in six months. However, registration for the programme is valid for a maximum period of two years. The programme is designed as a Web-based blended learning programme, wherein the major instructional inputs are provided online on a moodle platform. There would be two contact programmes with a gap of six months for completing or undertaking assigned activities. The certificate can be pursued on a part time basis, which is of particular relevance to those who are already working in various capacities under school and teacher education.

THE TARGET GROUP

This Certificate in Educational Research Methodology is meant for educational functionaries who have the responsibility to conduct research at various levels of education - primary, upper primary, secondary and senior secondary. They may also be trainers and teacher educators working at the block, district and state levels in institutions such as BRC, DIET, CTE, IASE and SIE/SCERT.

Apart from the functionaries in the government sector, this certificate programme is intended for educational researchers in the non-governmental and private institutions and agencies.

The programme also is meant for individuals who have an interest/stake in school and teacher education such as university faculty, educational consultants and those who wish to be independent researchers in the field of education.

OBJECTIVES

The objectives of the CERM are to improve the capacity of functionaries to (a) develop competencies in planning and execution of educational research, and (b) writing research reports, of both quantitative and qualitative nature. The certificate programme provides an opportunity to familiarise oneself with current methodological and theoretical understandings in the field of educational research. They will be provided with modalities necessary for conducting educational research.

DURATION

The programme is of six month duration. During the course of the six months, there will be two contact programmes of five days duration, one at the beginning and the other at the end of six months.

ELIGIBILITY

The certificate programme will have both deputed and non-deputed candidates (in-service and pre-service). The candidates aspiring to join the certificate programme should have a master's degree in any subject with exposure to research methods and/or dissertation as a component of the master's degree programme.

PROGRAMME OUTLINE

The CERM is organised under 4 modular courses and a project work. Each modular course consists of four units and thus the programme has a total of 16 units and a project work. Each module is of 3 credits and the project work has 4 credits. Thus the total number of credits for the programme is 16 credits.

PANORAMA OF MODULAR COURSES, CREDITS AND ORGANISATIONAL SCHEDULE

Sl. No	CODE	TITLE	Credits		Assessment*	Transaction Schedule
			Th	Pr		
1	CERM-1	Planning for Research	2	1	<ul style="list-style-type: none"> ▪ Unit End Assignments, ▪ Participation in discussion forums, ▪ Practicum, ▪ Quizzes on the units, ▪ Term End Viva-voce 	First month after orientation
2	CERM-2	Methodology of Research	2	1		Second month after orientation
3	CERM-3	Collecting and Analysing Data	2	1		Third month after orientation
4	CERM-4	Proposal and Report Writing	2	1		Fourth month after orientation
5	CERM-5	Project work on Preparing Research Report	-	4		<ul style="list-style-type: none"> ▪ Assessment of the research report ▪ Viva-voce
			8	8		

* Assessment will be done on a 10 point grading system as recommended by the UGC

CERM-1: PLANNING FOR RESEARCH

Unit 1: Introduction to Research: Nature and Types

Unit 2: Identification of a Research Problem

Unit 3: Review of Related Literature

Unit 4: Variables and Formulation of Hypotheses

PRACTICUM - 1

1) Select a topic of research that you would work on further in this certificate programme and write the following after library work.

- a) Detailed Analysis of the problem being studied and the rationale for undertaking the study
- b) The theoretical/conceptual/empirical basis of the study
- c) Variables and their operational definition

2) On the topic detailed in practicum 1,

- a) Write a review of related literature
- b) Write the objectives/research questions

- c) Write the hypothesis, if any
- d) Method of research proposed (quantitative/qualitative and descriptive/experimental etc.

ASSESSMENT: Weightage of this module in the overall programme is 20 percent

Items of Assessment	Weightage
Unit End Assignments	25
Participation in discussion forums	10
Practicum	30
Quizzes on the units	25
Term End Viva-voce	10

CERM-2: METHODOLOGY OF RESEARCH

Unit 5: Methods of Research

Unit 6: Sampling

Unit 7: Tools and Techniques of Research

Unit 8: Scales of Measurement and Basics of Statistics

PRACTICUM - 2

On the topic selected by you in module 1, write the methodological details consisting of the following:

- a) Population, Sample, Sampling procedure and Sample Size
- b) Decide the Tools to be used in the study and their nature (both selected and developed by the researcher) and develop/select the tools
- c) Delimitations of the study

ASSESSMENT: Weightage of this module in the overall programme is 20 percent

Items of Assessment	Weightage
Unit End Assignments	25
Participation in discussion forums	10
Practicum	30
Quizzes on the units	25
Term End Viva-voce	10

CERM-3: COLLECTING AND ANALYSING DATA

Unit 9: Managing Data Collection

Unit 10: Analysis of Quantitative Data: Parametric

Unit 11: Analysis of Quantitative Data: Non-Parametric

Unit 12: Qualitative Data Coding, Authenticity and Analysis

PRACTICUM - 3

Administer the tools on a sample and perform statistical analysis using a software for quantitative data and perform coding and analysis of qualitative data

ASSESSMENT: Weightage of this module in the overall programme is 20 percent

Items of Assessment	Weightage
Unit End Assignments	25
Participation in discussion forums	10
Practicum	30
Quizzes on the units	25
Term End Viva-voce	10

CERM-4: PROPOSAL AND REPORT WRITING

Unit 13: Writing a Research Proposal

Unit 14: Ethics of Research

Unit 15: Writing a Quantitative Research Report

Unit 16: Writing a Journal Article

PRACTICUM - 4

- 1) Prepare a research proposal on a research problem selected in the earlier practicum. You can use the format of the research project suggested by ERIC (NCERT), or UGC, or ICSSR.
- 2) Prepare an executive summary including implications based on the results obtained in the analysis performed in Practicum 3.

ASSESSMENT: Weightage of this module in the overall programme is 20 percent

Items of Assessment	Weightage
Unit End Assignments	25
Participation in discussion forums	10
Practicum	30
Quizzes on the units	25
Term End Viva-voce	10

CERM-5: PROJECT WORK ON PREPARING RESEARCH REPORT (4 credits)

This module would take the candidates through the following activities which culminate into submission of a research report

- Selecting a research problem of one's own interest
- Undertaking a review of related literature
- Formulating objectives, research questions and hypotheses
- Deciding the method of research and Preparing a research design
- Developing Instruments
- Selection of Sample
- Data collection and data analysis
- Preparing the research report
- Presentation of the findings of the research

Note: Course 5 pertaining to project work shall be completed within 6 months i.e. stipulated time of the Certificate programme. However, candidate may be allowed flexibility in submitting the project report to the maximum of 3 more months with prior approval of the programme coordinator.

SCHEME OF EVALUATION

Total Credits: 16 Credits

Mode of evaluation will be as stipulated for each modular course and following modes will be employed for deciding the CGPA for the entire programme.

- Unit End Assignments
- Practicum
- Participation in discussion forums
- Presentation of the Research Report
- Assessment of the Research Report
- Quizzes on the units
- Term End Viva-voce

Each modular course shall have 20 percent weightage in deciding the final grade.

TRANSACTION METHODOLOGY

The CERM is offered as an online programme with two contact programmes, one at the beginning and the other at the end of six months. The gap of time between the two contact programmes is meant for completing or undertaking assigned activities, which are at an application level and form an essential part of the continuous assessment. A candidate who has enrolled for the CERM would be provided with an access to the learning material specially designed on all the units of the programme. The student has to complete the assigned activities under each of the units/modules as per instruction provided.

CONTACT DETAILS

DR. Y. Sreekanth

Principal & Chairman, IUCTE

e-mail: riemysore@rediffmail.com

DR. V. D. Bhat

Coordinator,

Phone: +91821-2411212

e-mail: bhatvd@gmail.com

DR. M. S. Talwar

Director, IUCTE

e-mail:

projectiucte@gmail.com

ABOUT THE INSTITUTION

The MHRD, Govt. of India has established two Inter University Centres for Teacher Education in the country of which one is located at the Regional Institute of Education, Mysuru with southern India as its jurisdiction. Since its inception, the IUCTE, RIE Mysuru has embarked on several initiatives and programmes to achieve the objectives for which it has been established. You may like to see the programmes organised by the IUCTE on our web site at <http://iucte.zoliye.com/>.

Postal address:

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Manasagangothri

Mysuru-570006

India