



Central University of Himachal Pradesh

(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)

Dharamshala, Himachal Pradesh-176215



NAAC Criterion-I

Key Indicator – 1.3.2

**Brochure and course content or syllabus
along with course outcome of value added
course offered**

1.3.2 Evidences



Department of Education

Central University of Himachal Pradesh, Dharamshala,

Kangra



Central University of Himachal Pradesh

(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)

Dharamshala, Himachal Pradesh-176215



INDEX

Department of Education

S. No.	DESCRIPTION	Page No.
1	Brochure and course content or syllabus along with course outcome of value added course offered	1-9



School of Education Central University of Himachal Pradesh

(Established under Central Universities Act 2009)

PO BOX: 21, DHARAMSHALA, DISTRICT KANGRA – 176215, HIMACHAL PRADESH

www.cuhimachal.ac.in; Phone: 01892 237285-2237289, 229330; Fax: 01892 237286

Course Code: TTR 602

Course Name: Development and Standardization of Research Tools

Credits Equivalent: 4 Credits (One credit is equivalent to 10 hours of lectures / organized classroom activity / contact hours; 5 hours of laboratory work / practical / field work / Tutorial / teacher-led activity and 15 hours of other workload such as independent individual/ group work; obligatory/ optional work placement; literature survey/ library work; data collection/ field work; writing of papers/ projects/dissertation/thesis; seminars, etc.)

Course Objectives/Outcomes: on completion of the course, the students will be able to:

CO1 Describe meaning and need of research tools.

CO2 Understand various types of research tools.

CO3 Explain principles of tool construction.

CO4 Select the appropriate type of research tools for their respective study.

CO5 Develop competency in writing the items for research tool.

CO6 Edit the items of the research tool.

Attendance Requirements:

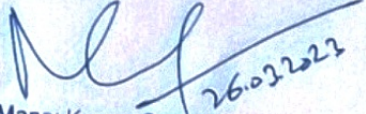
Students are expected to attend all lectures in order to be able to fully benefit from the course. A minimum of 75% attendance is a must failing which a student may not be permitted to appear in examination.

Evaluation Criteria:

1. Mid Term Examination: 25%
2. End Term Examination: 50%
3. Continuous Internal Assessment: 25% i.e. 25 marks out of 100
 - Seminar: 10 marks
 - Assignments: 15 marks

Course Contents:

UNIT-I: (10 hrs)


Prof. Manoj Kumar Saxena
जाचार्य मनोज कुमार सक्सेना
Head, Department of Education
अध्यक्ष, शिक्षा विभाग
Central University of Himachal Pradesh, Dharamshala
चल प्रदेश केन्द्रीय विश्वविद्यालय, धर्मशाला

- Mukhopadhyay, M. (1990). *Educational Technology: Challenging Issues*, Sterling Publishers Pvt. Ltd., New Delhi.
- Sampathet, al. (1981). *Introduction to Educational Technology*, Sterling Publishers Pvt. Ltd.
- Sharma, B.M. (1994). *Media and Education*, New Delhi: Commonwealth Publishers.
- Venkataiah, N. (1996). *Educational technology*, New Delhi: APII Publishing Corporation.
- Anand Rao, B. & Ravishankar: *Readings in Educational Technology*, Himalaya Publishing House, Ramdoot Dr. Bhalerao Marg, Bombay - 04.
- Chauhan S. S. *A Text Book of Programmed Instruction*, (2nd Ed). Sterling Publishers Pvt Ltd., New Delhi / Bangalore.
- Dharma, O.P & Bhatnagar O.O. *Educational and Communication for Development*, Oxford and IBG, New Delhi.
- Goldberg, Alvin & Carl, E. *Group Communication*, Prentice Hall, Inc. New Jersey.
- H.Keith. *Introducing CAI: Practical guide to writing CAI Programmes*, Chapman and Hall, London.
- Patel I.J et al., *A Hand Book of Programmed Learning*, CASE, Baroda.
- Ronald H Anderson: *Selecting and Developing Media for Instruction*, Van Nostrand Reinhold, New York.
- Ruhela S. P. (2001): *Some Aspects of Educational Technology*.
- Sharma R.A. *Programmed Instruction: An Instructional Technology*, Loyal Bank Depot, Meerut (UP).

Course Outcome	Programme Outcomes	Programme Outcomes	Programme Outcomes	Programme Outcomes	AI	Programme Specific Outcomes	Programme Specific Outcomes	Programme Specific Outcomes
1	2	3	4	5	6	7	8	9
CO1	1	2	3	4		1	2	3
CO2	1	2	3	-			2	2
CO3	1	2	3	-		1	2	1
CO4	1	2	3	-		-	2	-
CO5	1	2	-	3		-	2	3
CO6	-	2	3	3		1	2	3
						-	-	3

 26.03.2023

Prof. Manoj Kumar Saxena
आचार्य मनोज कुमार सक्सेना
Head, Department of Education
अध्यक्ष, शिक्षा विभाग
Central University of Himachal Pradesh Dharamshala
हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय, धर्मशाला

Manoj Kumar Saxena
मनोज कुमार सक्सेना
Department of Education
शिक्षा विभाग
Himachal Pradesh Dharamshala
हिमाचल प्रदेश विश्वविद्यालय, धर्मशाला

- Educational Technology- Its Meaning, Nature and Scope
- Evolution of Educational Technology: Continuum from audio-visuals to educational technology to information and communication technologies.
- Approaches of Educational Technology- Hardware approach, Software approach and System approach.

UNIT II:

- Communication: Concept, Nature, Process, Components and its Types
- Factors affecting classroom communication, How to improve classroom communication
- Communication Continuum from teaching to learning in the light of face to face and virtual communication.

UNIT III:

- Levels and Phases of teaching.
- Micro teaching, Simulated teaching and Team Teaching
- Flanders' Interaction Analysis

UNIT IV:

- Origin and Basic Principles of Programmed Instruction
- Types: Linear, Branching and Mathetics Model
- Steps in the Development of Programmed Instructional Materials, Content Analysis, Writing frames, Tryout, Editing and Validation

UNIT V:

- Recent Trends in Educational Technology development in India, SWAYAM, Open Educational Resources, MOOCs, Flipped classroom, cybercrime, cyber ethics.
- E-Learning and its various types, Online education in India
- Use of Social Media in Education in India

Suggested Readings:

- Adam, D.M. (1985). *Computers and Teacher Training: A Practical guide*. The Haworth Pren, Inc., N.Y.
- Behera, S.C. (1991). *Educational Television Programmes*, Deep and Deep Publications, New Delhi.
- Coburn, P. et al. (1985). *Practical Guide to Computers in Education*, Addison - Wesley Publishing Company, Inc.
- Das, R.C. (1993). *Educational Technology - A Basic Text*, Sterling Publishers Pvt. Ltd.
- Evaut, M. *The International Encyclopedia of Educational Technology*.
- Graeme, K. (1969). *Blackboard to Computers: A Guide to Educational Aids*, London, Ward Lock.
- Ilaas, K.B. & Packer, H.Q. (1990). *Preparation and Use of Audio Visual Aids*, 3rd Edition, Prentice Hall, Inc.
- Kumar, N. & Chandiram, J. (1967). *Educational Television in India*, New Delhi: Arya Book Depot.
- Kumar, K.L. (2008). *Educational Technology*, New Age International Pvt. Ltd. Publishers, New Delhi
- Mukhopadhyay, M. (1990). *Year Book 1988*, All India Association for Educational Technology

Prof. Manoj Kumar Saxena

Head, Department of Education

अध्यक्ष, शिक्षा विभाग
Central University of Himachal Pradesh Dharamshala
हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय, धर्मशाला

Manoj Kumar Saxena
Head, Department of Education
Himachal Pradesh Dharamshala
अध्यक्ष, धर्मशाला



School of Education
Central University of Himachal Pradesh
(Established under Central Universities Act 2009)
PO BOX: 21, DHARAMSHALA, DISTRICT KANGRA - 176215,
HIMACHAL PRADESH

www.cuhimachal.ac.in; Phone: 01892 237285-2237289, 229330; Fax: 01892 237286

Course Code: TTR408

Credit: 4 (Level 4)

Course Name: Educational Technology

Credits Equivalent: 4 Credits (One credit is equivalent to 10 hours of lectures / organized classroom activity / contact hours; 5 hours of laboratory work / practical / field work / Tutorial / teacher-led activity and 15 hours of other workload such as independent individual/ group work; obligatory/ optional work placement; literature survey/ library work; data collection/ field work; writing of papers/ projects/dissertation/thesis; seminars, etc.)

Course Objectives/Outcomes: On completion of the course, the students will be able to:

CO1 Describe meaning and need of Educational Technology.

CO2 Understand various approaches of Educational Technology.

CO3 Explain principles of Classroom Communication.

CO4 Define various levels of teaching.

CO5 Develop competency in using Flanders' Interaction Analysis.

CO6 Discuss Programmed Instruction Material

Attendance Requirements:

Students are expected to attend all lectures in order to be able to fully benefit from the course. A minimum of 75% attendance is a must failing which a student may not be permitted to appear in examination.

Evaluation Criteria:

Mid Term Examination: 25%

End Term Examination: 50%

Continuous Internal Assessment: 25% i.e. 25 marks out of 100


26.03.2023


Prof. Manoj Kumar Saxena
आचार्य मनोज कुमार सक्सेना
Head, Department of Education
अध्यक्ष, शिक्षा विभाग
Central University of Himachal Pradesh, Dharamshala
हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय, धर्मशाला

Course Contents:

UNIT I:

Manoj Kumar Saxena
आचार्य मनोज कुमार सक्सेना
Head, Department of Education
अध्यक्ष, शिक्षा विभाग
Central University of Himachal Pradesh, Dharamshala
हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय, धर्मशाला

Course Outcome s	Programme Outcomes	Programme Outcomes	Programme Outcomes	Programme Outcomes	AI	Programme Specific Outcomes	Programme Specific Outcomes	Programme Specific Outcomes
	1	2	3	4		1	2	3
CO1	1	2	3	-			2	2
CO2	1	2	-	-		1	2	-
CO3	1	2	3	-		-	2	-
CO4	1	2	3				2	3
CO5	1	2	-	3		1	2	3
CO6	-	2	3	3		-	-	3


 Mangi Kumar Saxena
 प्रो. मनोज कुमार सक्सेना
 Head, Department of Education
 अध्यापक, शिक्षा विभाग
 Himachal Pradesh Dharamshala
 हिमाचल प्रदेश विश्वविद्यालय, धर्मशाला

Unit 1: Measurement & Evaluation: An Introduction (6 Hours)

Educational Measurement and Evaluation, Concept, Functions, Principles, Taxonomy of instructional objectives, types of evaluation- Formative and Summative

Unit 2: Testing Tools and Techniques (8 Hours)

Evaluation Tools- Evaluation Techniques- Qualities of a good test- Norm referenced and Criterion referenced tests, Teacher made tests and standardized tests- Reliability: Methods of establishing reliability, factors affecting, interpretation and improving reliability, Validity: Types, factors affecting, interpretation and improving validity, Norms: types and characteristics

Unit 3: New Trends in Measurement and Evaluation (8 Hours)

Marking system, Grading System, Semester system, Choice Based Credit System (CBCS), Cumulative Grade Point Average (CGPA), Question banks, Use of computer in evaluation, Evaluation of Scholastic skills, Co-scholastic abilities, Evaluation of personal and social qualities, internal assessment

Unit 4: Construction of Tests (10 Hours)


Construction of an achievement test- Planning, preparation of blueprint, writing of items, Preparation of scoring key and marking scheme-Type of test items- Objective, short answer type and essay type-construction and use of diagnostic test- remedial teaching-construction of items for questionnaires, schedules, observation and interviews

Unit 5: Statistical Concept in Measurement & Evaluation(8 Hours)

Scoring and classification of scores- graphical representation of measures- measures of central tendency- measures of dispersion- correlation- normal probability of curve- standard scores

Suggested Readings:

- Sharma, R.A. Mental Measurement and Evaluation, Lall Book Depot, Meerut
- Anastasi, A (1982), Psychological Testing, Mac Millan, New York.
- Sivarajan, K. Trends and developments in modern educational practices, Calicut University Central co-operative stores, Calicut.
- Cronbach, L.J. (1964), Essentials of Psychological Testing, Harper and Row, New York.
- Ebel, R.L. and Frisbel, D.A. (1990). Essentials of Educational Measurement, Prentice Hall, New Delhi.
- Freeman, F.S. (1965), Theory and Practice of Psychological Testing, Holt, Rinehart & Winston, 1965.
- Gareet, H.E. (1973), Statistics in Education and Psychology, Vakils, Jeffer and Simons, Bombay.


Prof. Manoj Kumar Saxena
आचार्य मनोज कुमार सक्सेना
Head, Department of Education
अध्यक्ष, शिक्षा विभाग
Central University of Himachal Pradesh Dharamshala
दिल प्रदेश केन्द्रीय विश्वविद्यालय, धर्मशाला



School of Education Central University of Himachal Pradesh

(Established under Central Universities Act 2009)

PO BOX: 21, DHARAMSHALA, DISTRICT KANGRA – 176215, HIMACHAL PRADESH
www.cuhimachal.ac.in; Phone: 01892 237285-2237289, 229330; Fax: 01892 237286

Course Code: TTR - 469

Credit: 4

Course Name: Measurement and Evaluation in Education

Credits Equivalent: 4 Credits (One credit is equivalent to 10 hours of lectures / organized classroom activity / contact hours; 5 hours of laboratory work / practical / field work / Tutorial / teacher-led activity and 15 hours of other workload such as independent individual/ group work; obligatory/ optional work placement; literature survey/ library work; data collection/ field work; writing of papers/ projects/dissertation/thesis; seminars, etc.)

Course Objectives/Outcomes: on completion of the course, the students will be able to:

CO1 Understand concept, scope, need and relevance of educational measurement and evaluation.

CO2 Understand the concept of taxonomy of educational objectives

CO3 Explain the concepts of reliability, validity and norms.

CO4 Develop skills for the construction of various tools and techniques

CO5 Explain new trends like Grading System, CBCS, and CGPA.

CO6 Understand various statistical concepts.

Attendance Requirements:

Students are expected to attend all lectures in order to be fully benefit from the course. A minimum of 75% attendance is a must failing which a student may not be permitted to appear in examination.

Evaluation Criteria:

1. Mid Term Examination: 25%
2. End Term Examination: 50%
3. Continuous Internal Assessment: 25% i.e. 25 marks out of 100
 - Seminar: 10 marks
 - Assignments: 10 marks
 - Attendance: 5 marks


Course Contents:


26.03.2023

Prof. Manoj Kumar Saxena
आचार्य मनोज कुमार सक्सेना
Head, Department of Education
अध्यक्ष, शिक्षा विभाग
Central University of Himachal Pradesh, Dharamshala
हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय, धर्मशाला

Lecture 26	Reliability	Book-- 4	Chapter 3
Lecture 27	Reliability	Book-- 4	Chapter 3
Lecture 28	Reliability	Book-- 4	Chapter 3
Lecture 29	Reliability, Factors affecting Reliability	Book-- 4	Chapter 3
Lecture 30	Validity	Book 4	Chapter 2
Lecture 31	Validity	Book 4	Chapter 2
Lecture 32	Validity, Factors affecting Validity	Book 4	Chapter 2
Lecture 33	Items analysis	Book --4	Chapter 10
Lecture 34	Items analysis	Book --4	Chapter 10
Lecture 35	Items analysis	Book --4	Chapter 10
Lecture 36	Items analysis	Book --4	Chapter 10
Lecture 37	Norms, Their Type & Characteristics	Book --4	Chapter 11
Lecture 39	Preparation of Manual	Book --4	Chapter 11
Lecture 40	Administration procedure	Book --4	Chapter 12

Course Outcomes	Program me Outcomes 1	Program me Outcomes 2	Program me Outcomes 3	Program me Outcomes 4	AI	Program me Specific Outcomes	Program me Specific Outcomes	Program me Specific Outcomes
CO1	1	2	3	-		1	2	3
CO2	1	2	-	-			2	2
CO3	1	2	3	-		1	2	-
CO4	1	2	3	-		-	2	-
CO5	1	2	-	3		-	2	3
CO6	-	2	3	3		1	2	3
						-	-	3


 26.03.2023
 Prof. Manoj Kumar Saxena
 आचार्य मनोज कुमार सक्सेना
 Head, Department of Education
 अध्यक्ष, शिक्षा विभाग
 Central University of Himachal Pradesh, Dharamshala
 प्रदेश केन्द्रीय विश्वविद्यालय, धर्मशाला

Meaning of Research tools, Characteristics of good measuring research tools, Factors Influencing Test Scores Types of Tools - Essay type and different forms of objective type test items

UNIT-II (10 hrs)

Questionnaires, Schedules, Check-lists, Rating Scales, Opinionnaire,

UNIT-III (12 hrs)

Writing objective type test items, scrutinizing and editing, Reliability and Validity, their meaning, different methods of establishing reliability and validity, Factors affecting Reliability and Validity

UNIT-IV (4 hrs)

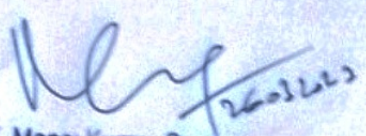
Items Analysis

UNIT-V (4 hrs)

Norms, their types and characteristics, Preparation of Manual and Administration procedure

Suggested Readings:

1. Garrett, H.E. (1981). *Statistics in Psychology and Education (Tenth Indian Reprint)*, Vails, Feffer & Simmons Ltd.
2. Kaul, L. (2011). *Methodology of Educational Research*, Vikas Publishing House Pvt. Ltd., Noida
3. Best, J. W. and Kahn, J. (1997) *Research in Education*. (7th ed.) New Delhi: Prentice - Hall of India Ltd.
4. Ansari, M.S. (2007). *Essentials of Measurement and Evaluation*, International Publishing House, Meerut


Prof. Manoj Kumar Saxena
आचार्य मनोज कुमार सक्सेना
Head, Department of Education
अध्यक्ष, शिक्षा विभाग
Central University of Himachal Pradesh Dharamshala
हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय, धर्मशाला