



CHRIST
UNIVERSITY

SCHOOL OF EDUCATION

CERTIFICATE COURSE SYLLABUS

2015-16

Certificate Course in Teaching & Learning

Description

Certificate course in Teaching & Learning is a certificate course offered by School of Education to all the UG students of Christ University for their partial fulfillment of UG courses. It develops the knowledge on lesson planning, skill of teaching, teaching methods, class room management, teaching process, ICT techniques, learning theories, learning process, and evaluation.

Learning Objectives

- To develop the skill of planning and writing of a lesson plan.
- To develop the skill of teaching.
- To acquaint with various teaching methods.
- To apply the skills of class room management in classrooms.
- To understand the meaning, nature and various theories of learning.
- To apply the process of teaching & learning in real situations
- To analyze the ICT techniques and evaluation required in Education.
- To synthesize the techniques of teaching.

Unit- 1 Education and Planning for teaching

06 Hours

Level of Knowledge – Conceptual and Basic

Meaning, nature and functions of education; Blooms & Anderson taxonomy of objectives, General objectives, listing of specification, writing instructional objectives, Evaluation approach Lesson planning, Writing lesson plan, introduction to unit plan, and year plan.

Unit- 2 Teaching Methods

08 Hours

Level of Knowledge – Application

Inductive method, Deductive method, Inducto-deductive method, Heuristic method, project method, Concept map, Collaborative method, problem solving method, Concept attainment model.

Unit- 3 Psychological Foundations of Learning

10 Hours

Level of Knowledge – Comprehension

Learning - Meaning and Nature; Learning Theories of learning - Trial and Error learning theory and laws of learning; Classical conditioning theory and its educational implications; Operant conditioning theory and its educational implications; Gestalt theory and its educational implications; Gagne's hierarchy of learning and its

educational implications; Constructivism – meaning and types- Cognitive constructivism – Piaget’s theory of cognitive development and social constructivism- Vygotsky theory of cognitive development and its educational implications; Concept formation; Concept learning - meaning, types, approaches to teach concepts; Learning in constructivist’s perspective.

Unit- 4 Educational Management
Level of Knowledge – Conceptual

05 Hours

Concept of freedom and discipline, ERP in Education, Role of teacher, Head master and non teaching staff, Time table, Accountability, School building, class management techniques, Laboratory and library.

Unit- 5 Philosophical and Sociological Perspectives in Learning
Level of Knowledge – Theoretical

08 Hours

Meaning and nature of philosophy, relationship between education and philosophy, Sociology of Education, social change, social mobility and socialization.

Unit- 6 Evaluation in Education
Level of Knowledge – Comprehension

08 Hours

Concept of Measurement and Evaluation, NRT, CRT, Formative, summative, CCE, portfolio assessment, Diagnostic testing, Grading, internal assessment, characteristics of a good question-paper, Electronic evaluation, credit system.

[Total: 45 Hours]

Skill Development

- Able to develop teaching learning strategies, and evaluation techniques
- Techniques of ICT for class room.
- Learning the art of teaching and learning
- Classroom management skills

References

Essential Reading

- Aggarwal, J. C. (2006). Psychology of Learning and Development. New Delhi: Shipra Publishing House Ltd.
- Bhatnagar, A. B. (1996). Advanced Educational Psychology. Meerut: Loyel Book Depot.
- Chauhan, S. S. (1987). Advanced Educational Psychology. New Delhi: Vikas Publishing House, Pvt. Ltd.
- Dandapani, S. A. (2003). Text Book of Advanced Educational Psychology. New Delhi: Anmol Publication.
- Das, R. C., & Vital, (1984). Curriculum and Evaluation. New Delhi: NCERT.

- Gagne, R. M. (1987). The Conditions of Learning.(3rd ed.). New York: Tinchart and Winston Inc.
- Kosslyn, S. M., & Rosenberg, R. S. (2001). Psychology: The brain, the person, the world. Needham Heights: Pearson Education Company.
- Kundu, C. L., & Tuttoo, D. N. (1985). Educational Psychology. New Delhi: Sterling Publishers Pvt. Ltd.
- Mangal S.K(2013). Advanced Educational Psychology, Prentice Hall Publications, New Delhi
- Munn, N. L. (1967). Introduction to psychology. Calcutta: Oxford & IBH Publishing Company.
- Passi, B. K., Goel, D. R., & Senapathy, H. K. (2004). Piagetian Teaching Model for Cognitive Development. Agra: Model Printers.
- Somashekar T V (2006) Educational Psychology, Nirmala Prakashana; Bangalore

Recommended Reading

- Harasim, L. (2012). Learning theories and online technologies. (1st ed., pp. 1-201). New York: Taylor & Francis Group. Retrieved from <http://www.amazon.com/Learning-Theory-Online-Technologies-Harasim-ebook/dp/B0073V0ZOA>
- Kilpatrick, William.H. , A defense of Philosophy in Education, Harvard teachers record. 1931.
- Murthy .S.K.Philosophical & Sociological foundations of Education, Ludhiana:Tandon Publications. 2000.
- Nevid, J. (2009). Essentials of psychology concepts and applications. (3rd ed., pp. 383-418). Belmont: Macmillan company.

CERTIFICATE COURSE

INFORMATION AND COMMUNICATION TECHNOLOGY IN EDUCATION

Learning objectives

- To understand the concept of Educational Technology, WEB 2 Technologies, ICT in school education and its application to teaching and learning.
- To explore the tools of educational technology.
- To acquire the knowledge and skill of current and future trends in Educational technology.
- To develop mastery in models of instructional design and enhance creativity and imagination of the learners.
- To become a critical user of ICT.
- To get equipped with presentation tools.
- To understand the concept of MOOC .

Unit- 1 Educational Technology

09 Hours

Level of Knowledge- Theoretical Knowledge

Meaning - Definition - Objectives-Forms of Educational Technology-Approaches of Educational Technology- Scope and Significance of Educational Technology - Role of technology in modern educational practices and in the classroom; Web 2 Technologies for classroom- advantages— learning concepts behind Web 2.0- educational responses

Unit-2 ICT in Education

10 Hours

Level of Knowledge- Theoretical and Practical Knowledge

Microsoft Word and its uses, Microsoft excel and its uses, Microsoft PowerPoint and its uses, Prezi – how to make a presentation and execute it. Massive Open Online Courses - Stanford Online, Coursera, Khan Academy, NPTEL, WizIQ,

Unit-3 Current and Future Trends in Educational Technology

11Hours

Level of Knowledge- Theoretical and Practical Knowledge

Social Media as a Teaching and Learning tool , iPads / tablets , Use of video to create global connections, The Flipped Classroom; Innovative Apps for Parent-Teacher Communication- Remind

Unit- 4 Smart Boards and Educational software

15Hours

Level of Knowledge - Theoretical and practical Knowledge

Smart Boards - Downloading the Smart board Software, Orienting the Smart board, Gallery, Floating tools , Customizing the pen tray , Handwriting recognition , Controlling objects , Adding images and text with cut and paste , Adding images to the Smart board gallery ,Inserting links and attachments , Inserting attachments , Hands-on practice.

Educational Softwares – Hot potato, Google classroom, Infographics, Padlet, Survey Monkey, A1 Academia, Moodles

[Total: 45 Hours]

References

Essential Reading

- Clarke C. (2014) Google's Latest Education Innovation: Google Classroom. Retrieved from <http://teach.com/education-technology/google-for-education>
- Kemp C. (2014) The current and future trends in Educational Technology. Retrieved from <http://mrkempnz.com/2014/09/the-current-and-future-trends-in-educational-technology.html>
- Fallows S. and Bhanot R. (2005) Quality Issues in ICT-Based Higher Education. Routledge. Retrieved from <https://www.questia.com/library/education/curriculum-and-instruction/educational-technology/ict-in-education>
- [TEACH.COM](http://teach.com/education-technology/parent-teacher-apps) (2015) 7 Innovative Apps for Parent-Teacher Communication. Retrieved from <http://teach.com/education-technology/parent-teacher-apps>

Jo Shan Fu (2013) ICT in Education: A Critical Literature Review and Its Implications. International Journal of Education and Development using Information and Communication Technology, Vol. 9, No. 1, April 1, 2013 . Retrieved from <https://www.questia.com/library/education/curriculum-and-instruction/educational-technology/ict-in-education>

Rodriguez, P.; Nussbaum, Miguel; Lopez, Ximena; Sepulveda, Marcos , (2010) A Monitoring and Evaluation Scheme for an ICT-Supported Education Program in Schools. Educational Technology & Society, Vol. 13, No. 2, April 2010 . Retrieved from <https://www.questia.com/library/education/curriculum-and-instruction/educational-technology/ict-in-education>

Wegerif R. and Dawes L. (2004) Developing Thinking and Learning with ICT: Raising Achievement in Primary Classrooms .Routledge Falmer. Retrieved from <https://www.questia.com/library/education/curriculum-and-instruction/educational-technology/ict-in-education>

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Kumar, K L (1997). Educational Technology: A Practical Textbook for Students, Teachers, Professionals and Trainers. New Delhi

Recommended Reading

Edwards Anthony, (2012) New Technology and Education (Contemporary Issues in Education Studies)

Ellis Viv, (2001) ICT, Pedagogy and the Curriculum: Subject to Change

Heinecke Walt, Adamy Pete, (2010) Evaluating Technology in Teacher Education: Lessons from the Preparing Tomorrow's Teachers for Technology

Prasad Janardan , Kaushik Kumari Vijay, (2002) Advanced Educational Technology, Kanishka Publisher

Rao. K. V.(2003), Educational Technology, APH Publishing

R. Imran. Shaikh (2013) Introduction to Educational Technology & ICT

Schwartz E. James, Beichner Robert J(1999): Essentials of Educational Technology; Allyn and Bacon,

Selwyn Neil,(2013) Education in a Digital World: Global Perspectives on Technology and Education

Sharma Ram Nath and Chandra SS(2006) Advanced Educational Technology; Atlantic Publishers

Soni, S K (2004). An Information Resource on Educational Technology for: Technical and Vocational Education and Training (TVET). New Delhi: Sarup & Sons Publishers.

CERTIFICATE COURSE FUNDAMENTALS OF TEACHING & LEARNING

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- To understand the process of teaching & learning.
- To learn the techniques of evaluation required in Education.

Meaning, nature and functions of education; Meaning and nature of philosophy, relationship between education and philosophy; Objectives of teaching: Blooms taxonomy of objectives, writing instructional objectives, Concept of Planning Instruction: Lesson planning, writing lesson plan.

Unit- 2 Teaching Methods

10 Hours

Level of Knowledge – Application

Inductive method, Deductive method, Inducto-deductive method, project method, Concept map, Collaborative method, problem solving method, Model of teaching.

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