DEVI AHILYA VISHWAVIDYALAYA,
INDORE

Syllabus
for

BACHELOR OF EDUCATION

Two year
B.ED. DEGREE COURSE

I , II, III & IV Semesters

2015-16 Academic Year and Onwards

Prof. S.K. Tiwari
Principal
Swa. Gulab Bai Yadav Smriti
Shiksha Mahavidhyalaya
BORAWAN (M.P.)

EPC 4: Understanding of ICT

Objectives: Upon the completion of the course the student-teachers will able to:

- Develop skill in handling computer and using word documents.

- Develop skill in computation, analysis and interpretation of data by using Excel Spread sheets.

- Understand the Educational implications of Power Point Presentation and its use in classroom context.

- Understand the applications of Information Technology in the field of teacher education programme and training.

Practicum :

1. **Computer Fundamental**
   - Instructions on operating the Computer
   - Connecting of all peripherals to CPU for a system
   - Switching on/off/restart
   - Inserting/removing a floppy from the floppy drive
   - Running a file from a floppy using floppy drive
   - Copying a file from hard disk to floppy disk
   - Inserting/removing a CD from the CD-ROM drive
   - Running a file from a CD-ROM using CD-ROM drive
   - Copying files from one drive to another
   - Creating a new folder
   - Running a file from hard disk
   - Connecting the printer and print out hard copies

2. **Exercise in Ms-Word**
   - Creating a new document
   - Formatting and editing of a document
   - Inserting pictures, objects, frames and tables
   - Practicing Mail-Merge facility
   - Working with the drawing tools

3. **Exercise in Ms-Excel**
   - Creating a new worksheet
   - Inserting and deleting rows/columns in worksheet
   - Formatting and editing of a document - sorting
   - Preparation of statement of marks and using of some statistical concepts – Descriptive Statistics
   - Preparation of School Time Table
   - Preparation of Tables

4. **Exercise in Ms-Power Point**
   - Preparation of MS-PowerPoint presentation using text, picture, sound, word art, clipart, and the other available tools with animation

5. **Exercise in Information and Communication Technology**
   - Browsing the Internet and down loading – search word using search engine
   - Working with Multimedia
   - Receiving/Sending of E mail and attachment

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CC 2. Educational Technology & ICT

Objectives: Upon the completion of the course the student-teachers will able to:

- Explain meaning, components, functions of computer and its historical backgrounds.

- Understand the computer peripherals and its Organization in computer system.

- Develop skill in handling computer and using word documents.

- Develop skill in computation, analysis and interpretation of data by using Excel Spread sheets.

- Understand the Educational implications of Power Point Presentation and its use in classroom context.

- Understand the applications of Information Technology in the field of teacher education programme and training.

CONTENT

Unit 1 : Fundamentals of Computer

1.1 History and Generations of Computer

1.2 Meaning, Definition and Characteristics of Computer

1.3 Basic Functions of Computer - Input-Process-Output Concepts

1.4 Anatomy of Computer

1.5 Classification of Computers:

    1.5.1 Based on size and capacity (Micro, Mini, Mainframe and Super Computers.)

    1.5.2 Based on working principle (Analog, Digital and Hybrid Computers.)

Unit 2: Computer Organization: Hardware and Software

2.1 Input Devices:

    2.1.1 Key Board, Mouse, Scanner, Digital Camera, Mike, Digital Board

2.2 Central Processing Unit:

    Arithmetic and Logic Unit, Control Unit and Memory Units.

2.3 Memory Devices (Storage devices):

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M.Ed. CURRICULUM

(TWO YEAR SEMESTER)

As per

NCTE Regulation - 2014

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INDORE
2015

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COURSE 3: INFORMATION AND COMMUNICATION TECHNOLOGY

OBJECTIVES

- To enable students to understand the scope of ICT and its pedagogic applications.
- To help students to understand the meaning of ICT integration in teaching learning and other academic tasks.
- To acquaint students with basics of Computer System and their functions.
- To familiarize students with the computer software and hardware approaches in education.
- To help them acquire instructional applications of Internet and web resources.
- To develop competency among students to use Online and Offline electronic resources.
- To empower students in handling applications like MS-Word and MS-Excel.
- To help students to explore the environment of WINDOW Operating System.

CONTENT

UNIT I: INTRODUCTION TO COMPUTER SYSTEM

Parts of Computer and their functions, Input and Output Devices used in Research Process, Memory, Modern Components of different Hardware like laptop, tablet , smart mobiles.

UNIT II: OPERATING SYSTEMS:

(a) WINDOWS: Concept and Features, Creating folders, Shortcuts and their application. Internet Explorer.

(b) ANDROID: Basic features- Interface, Application (Apps), Memory Management (RAM, ROM) Security and Privacy, Uses of Smartphone and Tablet, and their applications.

UNIT III: MS OFFICE

(a) **MS Word:** Different Menus and ribbon: Home, Insert, Page Layout, References, Mailings and Review, Functions of Office button, Customize Quick Access Toolbar.

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(b) Power point: Different Menus and ribbons, making slides. Custom Slide Show.

(c) MS-Excel: Different Menus and ribbon, Charts and their Functions in the field of Education, Application of Function Library.

UNIT IV: INTERNET

(a) Online Surfing, Online Conferencing, Creation & Use of e-mail, Chat, Use of Search Engines , Use of Online Dictionaries, Translator, Plagiarism Software, Use of Cloud Computing, Utility of Different Topologies in the field of Education .

(b)World Wide Web - Access information, reliability of information. Web Page and Home   Page, Use of Internet in Teaching-Learning Process. Down loading Information, Uses and   Abuses of INTERNET.

UNIT V: USES AND APPLICATIONS

Computer in Teaching Learning Process, Library, Administration,   Guidance and Counselling, In Evaluation Process. NMEICT, Use of Sakshat : A One –Stop Education Portal .

(a)   Computer in Research

ACTIVITIES

- Power-point presentation on any topic
- Formatting of Document
- Analysis of the different application software packages with reference to their use in education.
- Preparation of a project report by using various application software packages and its critical appraisal.

REFERENCES

Adam, D.M. *Computers and Teacher Training: A Practical guide,* The Haworth Pren, Inc., N.Y., 1995.

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Walizer, M.H. and Wiehir, P.H.: Research Method and Analysis- Searching for Relationships. New York: Harper and Raw Publishers, 1978.

COURSE 17: DISSERTATION

M.Ed. students will submit a report of the dissertation work, carried out by them during the coursework in two typed copies. A soft copy of the same in the form of CD will necessarily be enclosed along with each hard copy of the dissertation report. At the end of the fourth semester, the student will be assessed by an external examiner on the basis of the submitted report and an open presentation of the research work, preferably through power point mode. The presentation will be open to available faculty members, fellow students, and other interested persons. The internal marks will be given by the allotted supervisor on the basis of the students' work during the entire semester.

An external examiner will not normally assess more than 25 students in a day.

M.ED. TWO YEARS
ADVANCE LEVEL COURSES
COURSE 4/8/12/16: EDUCATIONAL TECHNOLOGY- I

OBJECTIVES:

- To familiarise student with the concept of educational technology.
- To equip student with fundamentals of system approach for solving educational problems scientifically.
- To make students aware of different types of instructional material.
- To enable students to understand the role of mass media in education.
- To make student familiar with the role of educational technology in education.
- To acquaint students with the challenges and opportunities emerging in integrating new technology in educational process.

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CONTENT

UNIT I: CONCEPT OF EDUCATIONAL TECHNOLOGY

Educational technology: concept, definition, meaning, nature, scope, & significance, Teaching technology and instructional technology, development of instructional technology, trends in educational technology, mass instructional technology, role of technology in education.

UNIT II: APPROACHES OF EDUCATIONAL TECHNOLOGY

Hardware, software and system approach: definition, characteristics and advantages. Designing and analyzing system, implementation of system approach in education, concept of cybernetics and system analysis.

UNIT III: COMMUNICATION PROCESS

Communication Process: Concept, nature, process, models and barriers, Mass media – selection and types, Multimedia approach, Classroom communication, Education and Training: Face-to-face, Distance and other alternative modes, Information Theory Channels of communication through mass media in education & Instructional Strategies: lecture, team teaching, discussion, seminar, tutorials, Mastery Learning.

UNIT IV: MULTI SENSORY AIDS

Concept, definitions, Classification: Audio, Visual, and Multi Sensory. Principles of selection of teaching aids, importance and uses. Audio/Radio: Broadcast and audio recordings - strengths and Limitations, criteria for selection of instructional units, script writing, Video/Educational Television: Telecast and Video recordings - Strengths and limitations, Use of Television and CCTV in instruction and Training,

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UNIT V: DESIGNING INSTRUCTIONAL SYSTEM

Formulation of instructional objectives, Task Analysis, Instructional Material: PLM – Meaning, types: LPLM, BPLM. MPLM, developing various types of PLM. Development of Modules.

ACTIVITIES

- Development of PLM on any topic.
- Preparation of teaching aids
- Script writing : Audio/Video

REFERENCES:

Agrawal, J.C.: Essentials of Educational Technology – Teaching Learning Innovations in Education, Vikas Publishing House, New Delhi, 1996.

Alberto, P.A. & Tontman, A.C. *Applied Behaviour Analysis for Teachers.* London: Merrill Publishing Co, 1986.

Bhushan, S.: Educational Technology, Vinod Pustak Mandir, Agra, 1986.

Chouhan, S.S.: Innovations in Teaching and Learning Practices, Vikas Publishing House, New Delhi, 1973.

Chouhan, S.S.: Textbook of Programmed Instruction, Sterling Publication, New Delhi, 1982.

Das, R.C. *Educational Technology: A Basic Text.* New Delhi: Sterling, 1992.

Dececco. J.P. *Educational Technology*, New York: HRW, 1964.

Kocharan, Kieffer: Audio Visual Aids, Prentice Hall, New Delhi, 1966.

Kulkarni, S.S.: Introduction to Educational Technology, Oxford and IBH, New Delhi, 1986.

Joshi, A., & Passi, B.K.: Controlled Learning, National Psychological Corporation, Agra, 1998.

Mohanty, J.: Educational Broadcasting, Sterling Publishers, New Delhi, 1984.

Rao. V. *Educational Technology*. Delhi: Himalayan Publishing House, 1991.

Sampath, K. et al.: Introduction to Educational Technology, Sterling Publisher, New Delhi, 1981.

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Sharma, A.R.: Educational Technology, Loyal Book Depot, Meerut, 1982.

Sharma, A.R.: Programmed Learning, Loyal Book Depot, Meerut, 1982.

Wilson, Bob: The Systematic Designs of Training Courses, Parthenon Publishing, U.S.A., 1987.

COURSE 4/8/12/16: EDUCATIONAL TECHNOLOGY-II

OBJECTIVES

- To enable the student to understand the models of teaching.

- To make the student familiar with new technological applications in education including online learning.

- To enable the student with use of computer packages in education become good practitioner of Educational technology.

- To acquaint the student with the challenges and opportunities emerging in integrating new technology in Educational process.

- To empower the student in pedagogical application of multimedia approaches.

CONTENTS

UNIT- I: TECHNOLOGY OF TEACHING

Models of teaching: meaning, characteristics and types
- Concept Attainment Model
- Advance Organizer Model
- Inquiry Training Model
- Role Play Model
- Value Analysis Model

Modification of teacher behaviour: Flanders Interaction Analysis Category System (FIACS) Simulation.

UNIT II: ICT IN EDUCATION

Computer assisted instruction, Web based instruction: uses, web links, online learning, m-learning, flipped classroom, blended learning, Virtual classrooms, computer based assessment

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system, Computer mediated communication. Uses of teleconferencing, interactive video and computer conferencing, Massive open online courses (MOOCS)

UNIT III: MULTIMEDIA APPROACH

Meaning, characteristics, usage, Multimedia Development Process, Instructional Design for Multimedia: Models of designing multimedia: Reeves Multimedia Design Model, ADIE Model, Script writing for multimedia.

UNIT – IV: DISTANCE EDUCATION & MASS MEDIA

Distance Education: Concept, Different contemporary system, viz., Correspondence, distance and Open: Student support services: Evaluation Strategies in Distance, Education; Counselling Methods in Distance Education. Mass Media: Media – Educational TV and Radio as mass media.

UNIT V: PROBLEMS AND CHALLENGES

Problem of sub-optimal use of technology in education, Attitudinal problems and challenge of adapting to fast emerging technologies in education, Poor maintenance of infrastructure and lean technical support system, Challenge of faculty empowerment in technology of teaching.

ACTIVITIES

- Development of e-content in an area.
- Construction of profile on wiki-educator
- Development of lessons using models of teaching
- Script writing for multimedia program

REFERENCES

Agrawal, R: Educational Technology Management & Evaluation. Delhi: Shipra Publications, 2009.

Anand, S : Educational Development and Technology. New Delhi: Anmol Publications Pvt. Ltd, 2007.

Dahiya, S. S: Educational Technology-Towards Better Teacher Performance. Delhi: Shipra Publications, 2008.

Dangwal, K.L: Educational Technology (Technology supported Teaching & Learning). New Delhi: APH Publishing Corporation, 2011.

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