Course Code   EDCC 204
SEMESTER-II
COMPUTER IN EDUCATION

Objectives :

Student teachers...

1. Get awareness of Computer usage and its importance in Education.

2. Understand computer networks & use of Internet in Teaching.

UNIT-I

A. Need and importance of computer in education

- Need and relevance of information technology in modern world

- Importance of knowledge of using computers by the teachers in classroom teaching

- Nature and scope of computer and IT

- Use of computer and IT in education

B. Computer Hardware :–

- C P U, input devices, memory

C. Computer Software :-

- Operating software, computer languages, its uses

- Differences between hardware and software technologies

- Role of both the technologies in modern teaching systems

UNIT-II

A. Computer networks-
- Types of networks, use of computer networks in communication, education, evaluation & research
B. Internet – history, use in education, advantages, disadvantages, access options, ISP, MODEM, ISDN, search engines, net surfing and use of e-mail in education

UNIT-III

A. Teaching technology

- Use of strategies like teleconferencing, language laboratory – concept and importance, computer- assisted - instruction (CAI)

B. Learning technology-

- Programmed learning – meaning, construction steps, types – linear and   branching programmes, importance and limitations, synchronous and asynchronous learning, computer assisted learning (CAL)

UNIT-IV Practicum (Any Two)

1. Prepare presentation on grading system and marking system by visiting any two such institutions using data from both systems

2. Make a power point presentation on any one national issue

3. Prepare a question bank on any one subject of B. Ed. Syllabus

4. Visit an institute promoting information and communication technology

5. Create your e-mail ID and make correspondence with your friends through your e-mail.

Reference Books :

1. Davies, I.K. and Hartley, J. (eds) (1972), "Contributions to and Educational Technology". London, Butterworth.

2. Pfeiffer, J. (1970), "New Look at Education, System Analysis in our School and College", Odyssey Press, New York.

3. Banghart, F.W. (1969), "Educational Systems Analysis", The Macmillan Co., London.

4. J. Patel Et. Al, "A Hand-book for Programmed Learning, Centre of Advance Study in Education-CASE, Baroda.

5. Shah, G.B. (1975), "Studies in Programmed Learning" CASE Baroda.

6. Skinner, B.F. (1968), "The Technology of Teaching", Appleton-Century-Crofts, New York.

7. Pitman, "all Ten Volumes of Aspects of Educational Technology, Pitman, London.

8. Shah, G.B. and Dewal, O.S. (1970), "Technology Knocks at the Door of Education", CASE, Baroda.

9. Mort, P.R., "Principles of School Administration", McGraw-Hill.

10. Ordway Tead, "The Art of Administration", McGraw-Hill.

11. R.N. Sajaya, B.D. Shaida, "School Administration and Organization", Dhanpal rai and Sons, Jullundur, Delhi.

12. Sears, J.B. (1950), "The Nature of the Administration Process", McGraw-Hill, New York.

13. TAber & Others, "Learning and Programmed Instruction", Addition Westey Co. Inc., London.

14. Dunhill J. "Classroom Management", University of London Press.

15. Bell Robert, E., "Measuring Edicational Achievement, Prentice Hall of India, New Delhi.

16. Garret, Henry, "Elementary Statistics", Longmans Green & Company.

17. Green & Others, "Measurement and Evaluation in Secondary School", Longmans Green & Co.

18. Shuklas, Satish S. (2002), "Information Technology in Education", Vishwabharathi Educational Foundation, Ahmedabad.

19. Sharma, A.R. (1992) "Educational Technology", Vinod Pustak Madir, Agra.

20. Mukhopadhyay Murmer, "Total Quality Management in Education", NIEPA, New Delhi.

21. Mukhopadhyay Murmer, "Management of Change in Education", In Search of Indian Model New Delhi, New Delhi.