

रानीदुर्गावती विश्वविद्यालय ,जबलपुर
Rani Durgawati University, Jabalpur



B.Ed. Course
Two -Year (Four Semester)

Course of Studies & Prescribed Books
Approved by Board of Studies in Education

Faculty of Education
2019

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9/7/19
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09-07-2019

PC- II Pedagogy of Computer Science

Objectives:

At the end of the course, the student teacher will be able to

- acquire knowledge on Fundamentals of Computer.
- acquaint the student teachers with the aim of teaching computer science at various levels.
- help the students teachers in acquiring skills relating to planning lessons and presenting them effectively.
- familirise the student teachers with the various methods of Teaching Computer Science.
- understand the Computer Science curriculum and various approaches.
- make the student teachers aware of the use of various instructional materials and aids in Teaching of Computer Science.
- enable the student teachers acquire knowledge on Computer Evaluation.

CONTENT OUTLINE

Unit 1: Meaning ,Nature and Scope of Computer Teaching

Hardware components of a micro computer – Input and Output devices – types of computers – Software - History of Computes - Network Communication – Computer viruses – Protective measures – Software: definition – System software – Application Software – High level and Programming languages – use of computers in schools.

Unit 2: Aims and Objectives of Teaching Computer Science

Introduction – Aim and Objectives of Teaching Computer Science – based on Bloom's Taxonomy of Educational objectives – Computer Science Teaching at different levels: Primary, Secondary and Higher Secondary levels.

Unit 3: Methods and Approaches of Teaching in Computer Science

- Lecture- Lecture – cum – demonstration - Demonstration – Problem Solving – Project Method – Scientific Method – Analytic and Synthetic Methods, Inductive-deductive approaches of teaching computer science; Individualized instruction-Concept - Self learning - programmed learning - computer- assisted learning (CAI) - Computer Managed Learning

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Unit 4 : Instructional Designs , Resources and Teaching Aids in Computer Science Teaching

Lesson Planning: Importance of lesson plans, writing instructional objectives and planning for specific behavioural changes. – Different models/approaches for writing lesson plan – Unit Planning: Preparation and use of unit plan, Year planning ,Meaning of the term instructional aids - use and importance of instructional aid in computer science – Guiding principles for the effective use of audio visual aids – classification of audio visual aids. Computer Science Textbook: Meaning – Qualities of good computer science text book – value of the computer science library. Tools and Techniques of Evaluation in Computer Science.

Mode of Transaction

Lecturing on Theoretical Concepts, use of computers in lab, Analytic and Synthetic Methods of Teaching, Project Method, Tasks and Assignments

Practicum: Task and Assignment

1. Prepare digital lesson plan
2. Conduct Online Quizzes or E- Quizzes
3. Prepare E-Content (any two topics)
4. Develop a CAI Package (Using Visual Basic Programming)
5. Prepare any two E-assignments
6. Prepare Program Learning Material

References:

1. Aggarwal J.C (2006). Essential of educational technology: innovation in Teaching-Learning. New Delhi: Vikas Publishing House.
2. Aruna .A (2014). Micro-Teaching. Chennai: UMi Media Integrators.
3. Carl Hamachar, Zvonko Vranesic and Safwa Zaky (2002). Computer Organization. New York: McGraw_Hill Higher Education.
4. Chauhan, S.S (1985). Innovations in Teaching Learning Process. New Delhi: Vikas Publishing House.
5. Deivam M (2014). Teaching of Computer Science. Madurai: Jayalakshmi Publication.

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6. Murthy et.al (1999). Fundamental of Information Teachnology. Mumbai: Himalaya Publishing House.
7. Mangal S.K. Mangal Uma. (2012). Essential of educational technology. New Delhi: PHI publication.
8. Mohanty Jagannath (2010). Educational Technology, New Delhi: Deep & Deeppublication.
9. Neil A. Sheldon (2001). Fundamental of Computing. London: Hutchinson & Co (publisher)
10. Patrick Hall (1989). Introduction to PC Computing. England: Sigma press.
11. Rajasekar S (2010). Methodology of Teaching Computer Science. Hyderabad: Neelkal Publication.
12. Shelly, Cashman, Vermaat (2002). Discovering computers. USA: Thomson Course Technology.

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PC –II -Pedagogy of Home Science

Objectives:

At the end of the course, the student teacher will be able to

- develop a broad understanding of the principles and procedures used in Home Science
- develop Home Science teaching competency.
- understand and appreciate the importance of Home Science in school education.
- have a critical study of learning Food & Nutrition, Human Health and Hygiene under Home Science Curriculum.
- Prepare acceptable lesson models which lay down these procedures to the adopted for preparing designs of lessons.
- Manage introductory activity in such a way that the vast majority of the learners attain most of the objectives

CONTENT OUTLINE

Unit 1: Meaning, Nature and Scope of Teaching Home Science

Concept of Home Science, meaning of Home Science, scope of Home Science, importance and value of Home Science, interdisciplinary linkages, home science and society.

Unit 2: Aims and Objectives of Teaching Home Science

Objectives of teaching home science, goals and objectives of teaching home science, advantages of using instructional objectives in behavioral terms – knowledge, comprehension, application, skill, scientific attitudes, interests.

Specific objectives of different content areas in home science, solving problems of everyday life, facts and principles of teaching home science.

Unit 3: Methods and Approaches of Teaching Home Science

Scientific methods – observation, enquiry, hypothesis, experimentation, data collection, generalization. Inductive and deductive procedures, lecture cum discussion method, lecture cum demonstration method, laboratory method, question-answer method. Heuristic method, project method, biographical approaches in teaching home science, communication in teaching home science, collaborative learning and experimental learning in home science, facilitating learners for self-study.

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Unit 4: Instructional Design , Resources and Teaching Aids for Home Science Teaching

Lesson plan for teaching of home science – importance of lesson plan, good lesson planning, merits and demerits, writing instructional objectives – planning for specific behavioural change. Preparation for practical lesson plan. – Different models/approaches for writing lesson plan. Practical work in home science, challenges while conducting practical, maintenance of records – stock registers and account books. Audio-visual aids in teaching home science, hardware and software approaches in teaching home science, instructional use of software – graphics, models, PowerPoint presentations. Techniques and Tools of Evaluation in Home Science Teaching.

Practicum: Task and Assignment

1. Preparation of radio and TV lessons.
2. Preparing teaching aids – models, graphs, short answer tests, score cards.
3. Development of evaluation device – essay type and unit tests.
4. Development and administration of test papers and submission of reports.
5. Plan of equipment's for home science lab in schools.
6. Critical study of home science syllabus in senior secondary schools.
7. Demonstration of practicals in senior secondary.

References:

1. Teaching of Home Science- B.L.Sharma Published by Vinay Rakheja-Meerut.
2. Principles of Home Science-S.R.Sharma and Kaushik, Anmol Publications Pvt.Ltd. New Delhi.
3. Teaching of Home Science-Seema Yadav, Anmol Publications New Delhi.
4. Teaching of Home Science- Mujibul Hasan Siddiqui, APH publishing corporation New Delhi.
5. Nutrition Education- R.S.Reddy, Commonwealth Publisher, New Delhi.
6. Graha Vighyan shikshan- Anita Varma, Vijay Prakashan Mandir, Varanasi.
7. Fundamentals of Teaching of Home Science-Arvindra Chandra, Anupama Saha, Sterling publisher private limited, New Delhi.
8. Food Science and Nutrition-Archana Satarkar, ABD publisher, Jaipur.
9. Nutrition Education- V.Sreedevi, Discovery publishing house, New Delhi.

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