

VOCATIONAL COURSES

EARLY CHILDHOOD CARE & EDUCATION

Objectives:

- *To have a knowledge about the Importance of early childhood years & child rearing practices.*
- *To understand children's environment, Physical & psychological health care, importance of play & developing creativity in children is essential for optimum development of young children.*

Expected Outcomes

- *At the end of the course students will be able to gain knowledge on different aspects of early childhood care and education & can set up play schools, pre schools or Crèches.*

Unit-I: Early Childhood care & Education:

- Meaning, importance, objective, principles of ECCE
- Types of pre-schools/ programs – play centers, day care, kindergarten, balwadi, anganwadi, mobile crèches,
- Contribution of the following thinkers to the development of ECCE (their principles, application & limitation) in the context ECCE. Rousseau, Froebel, Montessori, Gandhi, Tarabai Modak, ECCE in India.

Unit-II: Organizational Set up:

- Building & Equipment- Location , site, size and arrangement of rooms, play ground, play equipment, storage facilities, maintenance of the equipments and furniture.
- Administrative set up – staff & personnel working at different level.
- Role ,responsibilities & essential qualities of teacher & other personnel.
- Record & report-significance, types.

Unit-III: Curriculum & Activities:

- Principles & planning of curriculum for pre-school, major goals, factors determining the effectiveness of the curriculum
- Activities of curriculum for physical development, healthful living, social & emotional development, cognitive development & creative art & craft.

Books Recommended

1. Early Childhood care & Education (ECCE) – J.Mohanty & B.Mohanty – Deep & Deep Publication Pvt Ltd, New Delhi.
2. Pre-school Children – Development, care & Education – A.Chowdhury & R. Choudhury – New Age International Limited – Publishers, New Delhi.

3. Pre-school Education- Philosophy & practice- G.Pankajam-The Indian Publications-Ambala Cantt.
4. Theory & Principles of Education- Bhatia & Bhatia – Doaba House, Delhi.
5. Introduction to Early Childhood Education-J.A.Brewer, Allyn & Bacon. Boston,
6. Early Childhood Education- Barbara Day – -Macmillan, New York.
7. Early Childhood Education-J.S.Garewal- Agra national Psychological Corporation Publishers.
8. Introduction to Early Childhood Education-Hilde brand Vena, -Macmillan-New York.
9. Early Childhood Education programme, V.Kaul NCERT, New Delhi.
10. Guide to Nursery School Teacher – R. Muralidharan NCERT.

ENVIRONMENTAL CONSERVATION

Objectives:

- To acquire knowledge about components of environment and impact of population growth on environment.
- To understand causes and effects of environmental pollution and its impact on human health.

Expected Outcome:

- Studying environmental management will help to enrich knowledge about environment, population and environment, environmental pollution, and public health hazards due to pollution.

Unit-I: Environment:

- Components of environment, factors influencing environment
Elements of environment. Atmospheres: (Troposphere, Mesosphere, Ionosphere, Exosphere, Hydrosphere, Lithosphere, Biosphere),
- Physico-chemical factors in the environment, changes in environment, Natural resources-conservation & sustainable development.

Unit-II: Environmental Pollution:

- Definition, types of pollutants, Agents causing pollution,
- Classification, effects of pollution- Air pollution, sources, air pollutants, effects of air pollution & its control.
- Water Pollution: sources, water pollutants, effects of water pollution & its control.
- Noise Pollution: effect & control of noise pollution, Land degradation, causes, effect & control, waste disposal, legal provisions to control pollution.

Unit-III: Environment and Public Health:

- Epidemiology, transmission of communicable diseases, water, air, vector and food borne diseases.
- Environmental pollution & community health, chemical insecticides & its impact on health,
- toxic action of metals & biological substances, sanitation measure to prevent & control the spread of diseases, vector control.

Books Recommended

1. Environmental Studies- A.K.Patra, Kalyani Publishers, New Delhi.

2. Fundamentals of Environmental Studies-S.N.Tripathy & Sunakar Panda, Vrinda Publications (P) Ltd, Delhi.
3. Environment & Society- P.C.Mishra & R.C.Das, Macmillan India Limited, New Delhi.
4. Fundamentals of Environmental Studies- N.K.Tripathy, Taratarinin Pushtakalaya, Berhampur, Orissa.
5. Man & Environment- M.C.Dash & P.C.Mishra, Macmillan India Limited, Kolkata.
6. A Text Book on Environmental Pollution & Control- H.S.Bhatia, New Delhi.
7. Environmental pollution & Development: Environmental Law, policy & Role of Judiciary- C.Pal, Mittal Publishers, New Delhi.
8. Sociology of Environment-S.N.Power & R.B.Patil, Rawat Publishers, Jaipur.
9. Environmental Education Problems & prospects- R.Ghanta & B.D.Rao, Discovery, New Delhi.
10. The Impact of Environmental Degradation on People- Philip viegs & Geeta Menon, Inidan social Institut, New Delhi.
11. Sustainable development & Environment, vol. I- Amit khanna De *et al.* , Cosmo Publisher, New Delhi.
12. Environmental Degradation: Socio-economic Consequences, I.S.Chauhan & A.Chauhan, Rawat Publishers, Jaipur.

NURSERY MANAGEMENT

Objectives:

- To acquire knowledge about nursery management like propagation, bed preparation and packing of nursery plants.
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Expected Outcome:

- Studying nursery management will help the students in developing and managing their own garden .

UNIT-I

- Propagation: importance and potentialities, sexual and asexual methods of propagation
- Advantages and disadvantages of Propagation.

UNIT-II

- Methods of vegetative propagation: Cutting, budding, layering, and grafting techniques.
- **Preparation of nursery beds, orchard layout, system of crop planting, pot mixture making.**

UNIT-III

- Preparation of different types of cutting, budding, layering and grafting.
- Uprooting, digging, labelling and packing of nursery plants.

BOOKS AND REFERENCES

1. Dr. Arun kumar Singh and Abhinav Kumar(2020). Propagation and nursery management
2. R.R. Sharma and Manish Shrivastav(2004). Plant propagation and nursery management.
3. B.S. Chundawat (2017). Plant propagation and nursery management.