

MODULE 21 - NATURAL DYES

OBJECTIVES

After the study of this e - content module the leaves will be able to:

1. Give attributes of clothes.
2. Give importance of textile colour at the time of purchase of clothes.
3. Give characteristics of Indian textile.
4. Give bad affects of synthetic dyes.
5. Explain why natural dyes are eco friendly.
6. Give examples of plant resources for natural dyes.
7. Name the places which are known for the use of natural dye.
8. Establish relationship between natural dyes and human health.

SUMMARY

Colors are one of the very potent stimuli for human being specially incase of textile. Because of increasing demands and advancements in science and technology synthetic dyes are being used in most of the textile industries which are not eco friendly and health friendly. Hence natural dyes are getting importance in the present day context as they have positive impacts on health and environment.

TRANSCRIPTION

Clothes & Their Colours

Human beings have three basic necessities, food, clothes and shelter. All these three needs are fulfilled by nature directly or indirectly. Because of advancement in science and technology everyday new innovations are coming into existence and are making the human life luxurious. Whenever we think about clothing we consider a number of attributes like quality of fabrics, weaving quality, printing design etc. In the realm of textile our first interaction takes place with the colors.

Natural Colours of Textiles

The color of textile and clothes often affect our decision to posses them or not. So far, as Indian textile is concerned it is known for its wide spectrum of bright and vibrant colures. Indians have been the pioneers of extracting colors from various natural resources mainly from plants and other non-toxic raw materials.

Bad Effects of Chemical Dyes

Because of advancements in textile industries and requirement for large quality of clothes, the synthetic dyes are being used which often contains toxic chemicals. The chemical dyes requires huge amount of water and fuel and their use also pollutes water bodies like rivers, ponds and finally makes the water unsafe for drinking, bathing, irrigation etc. Continuous and prolonged exposure to chemical dyes causes genetic disorders as well as irreparable damage to the eco-system. Therefore the safe alternative is going back to Nature.

Benefits of Natural Dyes

Natural dyes are always beneficial for human health and are eco-friendly. They are safe and harmless because they are derived from plants, flowers, fruits, seeds, nuts, leaves, stem roots etc.

Hena – A Source of Natural Dye

Hena dye which is also known as mehendi is obtained from dried leaves of *Lawsonia inermis*. Mehendi is widely used as a pleasant orange red dye. It is also used in coloring hair and making designs on hands. Its individual properties help in curing skin diseases and headache.

Other Natural Resources of Dyes

Turmeric and saffron, basically known for their use in food, also provide natural dyes. The antiseptic property of turmeric is well known. The use of Tulsi in dyeing cotton, Nylon and polyester makes the fabric carry the fragrance of Tulsi. We can also use gold flower which is known as good producer of oxygen, It has good absorption capacity and the fabric retains its fragrance. The use of fabric dyed with gold flower might be helpful in breathing problems.

Like these examples there are plenty of natural resources for dyes. If we search, we will get them.

Places Known for Using Natural Dyes

There are a number of places in the country which are known for the production of fabrics with the use of natural dyes :

1. Bagh

2. Paithan

Eco – Friendly Characteristics of Natural Dyes

Natural dyes are deep and soft in color as compared to synthetic dyes. They do not create any bad effect. They are antiseptic, aromatic and health friendly. The concept of eco friendly fabric is gaining grounds these days. Natural dyes are helpful in making eco-friendly fabrics because of their non toxic properties.

Promoting Production of Natural Dyes

Since they enhance our quality of life hence we should promote natural dyes as far as possible. The professionals from industry, research and educational organization are required to invent and investigate natural dyes which will be helpful. The farmers should also be motivated to cultivate plants which are natural resources of eco friendly dyes.

GLOSSARY

Eco friendly: Which is helpful in maintaining the quality of environment?

Synthetic Dyes: Which are manufactured by using chemicals?

Natural Dyes: Dyes which are extracted from natural resources mainly from plants.

Antiseptic: which acts against septic biological activity?

Aromatic: Aroma smell.

Toxic: which has unhealthy effect on body?

FAQ's

Q1. Write the attributes of clothes.

A. Quality of fabrics, weaving quality, printing design, color and texture.

Q2. For what Indian textile is known?

A. For its wide spectrum of bright and vibrant colors.

Q3. Why synthetic dyes are not eco friendly?

A. Chemicals dyes are made up of toxic chemicals which require huge amount of water and fuels and their use also pollutes water bodies.

Q4. Why synthetic dyes are not good for health?

A. Continuous and prolonged exposure to chemical dyes causes genetic disorders.

Q5. What are the natural sources of dyes?

A.. Natural resources mainly plants are sources of natural dyes.

Q6. What is the use of hena?

A. Hena is widely used as a pleasant orange red dye. It is also used in coloring hair and making designs on hands.

Q7. What are benefits of using natural dyes.

A. Natural dyes are antiseptic, aromatic, health friendly and eco friendly.