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DYING OF NATURAL SILK WITH NATURAL DYES OBTAINED FROM PLANTS

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ABSTRACT

Experimental methods were used to study the production of natural dyes from various parts of some plants and the dyeing of natural silk with natural dyes in different colors. Then the dyed fabric is dried in a hanger for 30 minutes. After that, the fabric is removed from the hanger and shaken in a solution of vinegar. After shaking, the silk fabric is washed in running water and allowed to dry. The creative approach of the master to paints, a good and thorough knowledge of the methods of dyeing raw materials and tools used for dyeing, allows you to create a new range of fabrics and increase their demand.

KEYWORDS: Natural Silk, Silkworm, Natural Dye, Plantágo Májor, Indigofera Tinctoria L, Rosa, M. Multicaulis, Crocus Sativus, Solanum Lycopersicum, Fabric Dyeing.

BIBLIOGRAPHY:

- **1.** С.М.Кирюхин, Ю.С.Шустов, Текстильное материаловедение. Москва, «Колос», 2011, 360 с.
- 2. U.M.Matmusayev, A.Z.Abdullayev, A.D.Hamroyev. To'qimachilik metrialshunosligi. 1-qism. O'zbekiston nashriyot-matbaa ijodiy uyi. Toshkent-2005.

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- **3.** Ibragimov A.A., Amirova T.Sh., Ibrokhimov A. Certification and classification of tissues based on their biological properties and chemical composition // Universum: chemistry and biology: electron. scientific magazine 2020. № 10(76). URL: https://7universum.com/ru/nature/archive/item/10741 (дата обращения: 21.05.2022).
- **4.** A.A., Ibrokhimov A.A., Mezhlumyan L.G. Physico-chemical analysis and composition of natural animal fibers // International Symposium on the Chemistry of Natural Compounds 2021.- C. 293.
- **5.** Ibragimov A.A., Amirova T.Sh., Ibrokhimov A.A. Chemical composition of Margilan silk // Chemical sciences. German International Journal of Modern Science 2021. No. 14. C. 12-15.
- **6.** Ibragimov A. A., Amirova T.Sh., Ibrokhimov AA Chemical composition of Fergana sheep wool // Chemical sciences. Annali d'Italia 2021. No. 21. C. 3-6.
- **7.** Amirova T., Ibragimov A., Nazarov.O. "Coloring natural silk with natural dyes obtained from plants"// Annals of the Romanian Society for Cell Biology. 2021. C. 7089-7093.
- **8.** Amirova T.Sh., Shamshiev Zh.E. "Preparation of fabrics from natural silk"// Conference on innovation in the modern education system. Washington University in St.Louis -2021.- 25 march. Washington, USA. C. 532-535.
- **9.** Amirova T.Sh., Ibragimov 140. Enne G, Leita L, Giardini I, Sequi P. Relationship between the level of environmental contamination with heavy metals and their accumulation in sheep tissues. *Medycyna Wet* .1989.9-10, P.565-568.