



# SNS COLLEGE OF ENGINEERING



Kurumbapalayam(Po), Coimbatore – 641 107

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## Department of AI &DS

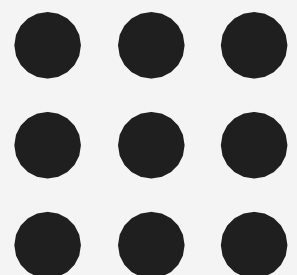
Course Name – 19AD602 DEEP LEARNING

III Year / VI Semester

Unit 2-PROTECTION OF TRADITIONAL KNOWLEDGE

Topic: Value of TK in global economy

GULSHAN BANU.A/ AP/AI AND DS /Value of TK in global economy/SNSCE





## Value of TK in global economy



Traditional knowledge (TK) has immense value in the global economy, offering unique solutions to contemporary challenges and contributing to sustainable development across various sectors. TK encompasses a wide range of knowledge systems, including agricultural practices, healthcare remedies, and environmental management techniques, that have been developed over centuries by indigenous and local communities. This wealth of knowledge, which is often deeply tied to the environment and culture of these communities, holds untapped potential for addressing modern economic, social, and environmental issues. Recognizing and valuing TK can play a crucial role in fostering innovation, driving economic growth, and creating new opportunities for industries worldwide.



One significant area where TK has value in the global economy is agriculture. Many traditional farming practices, such as crop rotation, agroforestry, and organic pest control, are based on a deep understanding of local ecosystems and sustainable resource management. These practices have proven effective in promoting soil health, increasing biodiversity, and improving resilience to climate change. As the world faces the challenges of food insecurity, land degradation, and climate change, incorporating traditional agricultural knowledge into modern farming systems can lead to more sustainable and efficient food production. By integrating TK into agricultural policies and practices, countries can enhance food security, reduce dependency on chemical inputs, and boost agricultural productivity in an environmentally responsible way.



## Value of TK in global economy



In addition to agriculture, traditional knowledge plays a critical role in the global healthcare economy. Many pharmaceutical products today are derived from plants and natural substances that were first identified for their medicinal properties by indigenous communities. For example, the use of herbs like turmeric, ginger, and echinacea for various ailments has been passed down through generations and later validated by modern science. As the demand for natural and alternative medicine increases, TK is becoming increasingly valuable in the global healthcare market. By preserving and protecting traditional medicinal knowledge, industries can unlock new opportunities for drug development, health innovations, and the expansion of the wellness sector, leading to economic growth and job creation.



Furthermore, TK holds immense value in environmental conservation and natural resource management, which are vital to the global economy. Indigenous communities have developed sophisticated techniques for managing forests, water resources, and biodiversity, ensuring that ecosystems remain healthy and sustainable. In an era of environmental degradation and climate change, these traditional practices offer valuable insights for addressing global environmental challenges. For instance, fire management techniques, water conservation practices, and sustainable fisheries management have been integral to the well-being of communities and the environment. By recognizing and applying these practices in global conservation efforts, nations can work towards achieving environmental sustainability, which, in turn, supports long-term economic stability and growth.





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THANK YOU