



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND DESIGN

COURSE NAME : 19MC003 ESSENCE OF INDIAN TRADITIONAL KNOWLEDGE

III YEAR / VI SEMESTER

Unit II- Protection of traditional knowledge

Topic 3 : Significance of TK Protection



Significance of Traditional Knowledge Protection

- **Preserving Cultural Heritage:** Ensures the survival of customs, traditions, and indigenous wisdom.
- **Safeguarding Biodiversity:** Protects traditional ecological knowledge critical for environmental conservation.
- **Preventing Exploitation:** Shields indigenous communities from biopiracy and unethical commercialization.
- **Enhancing Global Innovation:** Provides valuable insights for sustainable development, medicine, and technology.
- **Ensuring Economic Benefits:** Allows rightful ownership and fair profit-sharing from TK-based products and innovations.



Challenges to Traditional Knowledge

- **Cultural Erosion:** Loss due to modernization and lack of transmission to younger generations.
- **Biopiracy:** Unauthorized exploitation of traditional resources by corporations.
- **Lack of Legal Recognition:** Difficulty in establishing ownership and rights over knowledge.
- **Environmental Degradation:** Climate change and deforestation affecting traditional practices.



Legal Protections & Global Initiatives

- **Convention on Biological Diversity (CBD):** Recognizes indigenous rights to TK.
- **Nagoya Protocol:** Ensures equitable benefit-sharing from TK-based resources.
- **World Intellectual Property Organization (WIPO):** Develops legal frameworks for TK protection.
- **National Initiatives:** Countries implementing legal measures to protect TK (e.g., India's TKDL).



Strategies for Safeguarding Traditional Knowledge

- **Legal Frameworks:** Implementing laws like the Nagoya Protocol and national legislation to safeguard TK.
- **Community Empowerment:** Strengthening indigenous rights and ensuring active participation in decision-making.
- **Documentation & Digitization:** Recording TK in digital libraries to prevent loss and misuse.
- **Ethical Commercialization:** Promoting fair trade and equitable benefit-sharing agreements.
- **Education & Awareness:** Encouraging younger generations to learn and preserve TK.



Case Studies & Success Stories

- **India's Traditional Knowledge Digital Library (TKDL):** Preventing biopiracy of Ayurvedic and herbal medicine.
- **Peru's Indigenous Rights Movements:** Advocating for fair trade and intellectual property rights for TK holders.
- **Australian Aboriginal Land Management:** Integrating TK into modern environmental conservation practices.
- **Amazon Rainforest Communities:** Sustainable TK-based businesses enhancing biodiversity conservation.
- **Kani Tribe & Jeevani Drug (India):** Equitable benefit-sharing from the medicinal plant Arogyapacha used in Jeevani.
- **Maasai Intellectual Property Protection (Africa):** Legal efforts to safeguard cultural symbols and traditional designs.
- **San People & Hoodia Plant (South Africa):** Partnership ensuring fair compensation for traditional knowledge in appetite-suppressant drugs.
- **New Zealand's Māori Taonga (Cultural Treasures):** Legal frameworks protecting Māori cultural heritage and TK.



The Way Forward

- Strengthening legal protections and international cooperation.
- Encouraging ethical research partnerships with indigenous communities.
- Increasing funding for TK documentation and conservation projects.
- Enhancing education programs to pass TK to future generations.



Any Query????

Thank you.....