



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 IV- Traditional knowledge and intellectual property

Topic 5 : Strategies to increase protection of traditional knowledge

**Strategies to increase protection of traditional knowledge / 19MC003 ESSENCE OF
INDIAN TRADITIONAL KNOWLEDGE /HARIBABU.S/CSD/SNSCE**



Legal Frameworks for Protection

- Intellectual Property Rights (IPR)
- Patents, Copyrights, Trademarks, and Geographical Indications
- Community Protocols and Customary Laws
- Challenges in enforcing legal frameworks



Role of Government Policies

- National legislation for TK protection
- Support for indigenous and local communities
- Frameworks like the Nagoya Protocol
- Government funding and grants for TK protection



International Agreements & Organizations

- World Intellectual Property Organization (WIPO)
- United Nations Educational, Scientific and Cultural Organization (UNESCO)
- Convention on Biological Diversity (CBD)
- The role of the World Trade Organization (WTO) and the Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS)



Community-Based Protection Strategies

- Documentation and Digital Archiving
- Establishing Knowledge Registers
- Strengthening Local Governance and Institutions
- Training indigenous communities on legal rights



Use of Technology in TK Protection

- Blockchain for TK Documentation
- Digital Libraries and Databases
- AI & Machine Learning for TK Recognition
- Mobile applications for recording and verifying TK



Ethical and Cultural Considerations

- Free, Prior, and Informed Consent (FPIC)
- Respecting Indigenous Rights
- Balancing Commercial Use and Community Interests
- Preventing cultural appropriation and ensuring fair benefit sharing



Public Awareness and Education

- Educating Stakeholders on TK Importance
- Promoting Ethical Research Practices
- Encouraging Youth Participation in TK Preservation
- Collaboration with academic institutions for TK research



Case Studies of Successful TK Protection

- Example 1: India's Traditional Knowledge Digital Library (TKDL)
- Example 2: New Zealand's Indigenous IP Protection
- Example 3: Peru's Biocultural Protocols
- Example 4: Brazil's Protection of Indigenous Medicines
- Example 5: African Union's Initiatives on Traditional Knowledge



Challenges and Barriers

- Misappropriation and Biopiracy
- Limited Legal Recognition in Some Countries
- Lack of Awareness and Funding
- Conflicts between traditional and modern legal systems

Future Directions

- Strengthening Global Collaboration
- Enhancing Legal Frameworks
- Promoting Sustainable and Ethical Commercialization
- Integration of traditional knowledge in sustainable development goals (SDGs)



Any Query????

Thank you.....