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 5 : **Role of Government to harness TK**

Why Government Involvement is Essential

•**Protection of Intellectual Property:** Safeguarding TK from exploitation and misappropriation.

•**Promotion of Sustainable Practices:** Encouraging eco-friendly and traditional agricultural methods.

•**Economic Development:** Utilizing TK to boost industries like healthcare, tourism, and handicrafts.

•**Cultural Preservation:** Supporting indigenous communities in maintaining and passing down their heritage.

Government Initiatives for TK Protection

• **Legal Frameworks:** Implementing laws like the Nagoya Protocol and national intellectual property rights (IPR) policies.

• **Traditional Knowledge Digital Libraries (TKDLs):** Documenting TK to prevent biopiracy.

• **Funding & Grants:** Providing financial support for research and sustainable development projects.

• **Community Empowerment Programs:** Involving indigenous groups in decision-making processes

Role of Government in TK Commercialization

•**Fair Trade & Benefit Sharing:** Ensuring indigenous communities receive fair compensation.

•**Encouraging Startups & Enterprises:** Supporting small businesses that utilize TK-based products.

•**Integration with Global Markets:** Facilitating exports and partnerships with international companies.

•**Research & Development (R&D) Investment:** Funding innovation while maintaining TK authenticity

Case Studies & Success Stories

- **India's Traditional Knowledge Digital Library (TKDL):** Preventing unauthorized patents on TK-based medicine.
- **Kani Tribe & Jeevani Drug (India):** Revenue-sharing model benefiting indigenous knowledge holders.
- **San People & Hoodia Plant (South Africa):** Fair compensation agreement for medicinal plant-based products.
- **New Zealand's Māori IP Protection:** Legal measures securing TK-based business opportunities.
- **Peru's Indigenous Bioeconomy Initiatives:** Supporting sustainable TK-driven enterprises

Challenges in Government Efforts

- **Legal Complexities:** Difficulty in applying standard IP laws to TK.
- **Biopiracy & Unauthorized Use:** Challenges in enforcing TK protections globally.
- **Community Awareness & Participation:** Ensuring indigenous groups have a voice in policy decisions.
- **Balancing Modernization with Tradition:** Maintaining authenticity while allowing innovation

Future Roadmap for Government Policies

- Strengthening international collaborations for TK protection.
- Encouraging more inclusive economic opportunities for indigenous communities.
- Expanding TK documentation efforts with digital tools and AI.
- Promoting education programs on TK's significance in schools and research institutions

Any Query????

Thank you……