

GOVERNMENT POLYTECHNIC, MALKANGIRI
DEPARTMENT OF MECHANICAL ENGINEERING

<u>LESSON PLAN</u>		
Discipline: Mechanical Engineering	Semester: 4th	Name of the Teaching Faculty: CHINMAYA BRAHMADARSHI MISHRA
ESSENCE OF INDIAN KNOWLEDGE AND TRADITION	No. of days/week class allotted 2	Semester From date:22.12.2025 No. of Week: 15 To date:18.04.2026
PRE-REQUISITE	ESSENCE OF INDIAN KNOWLEDGE AND TRADITION	
Course Outcomes	1. Discuss the concepts of traditional Indian knowledge and roots of knowledge system and indigenous knowledge system 2. Explain the technique of protection of traditional Indian knowledge 3. Discuss legal frameworks of traditional knowledge 4. State intellectual property rights 5. State traditional knowledge in Different Sectors	
Week	Class Day	Theory/Practical Topics
1st	1st	Introduction to traditional knowledge: Define traditional knowledge
	2nd	nature and characteristics
2nd	1st	scope and importance, kinds of traditional knowledge (Unani / Siddha/ Ayurveda)
	2nd	Indigenous Knowledge (IK), characteristics
3rd	1st	traditional knowledge vis-a-vis indigenous knowledge
	2nd	traditional knowledge vis-a-vis indigenous knowledge
4th	1st	traditional knowledge of Odisha
	2nd	Protection of traditional knowledge (TK): The need for protecting traditional knowledge
5th	1st	Protection of traditional knowledge (TK): The need for protecting traditional knowledge
	2nd	Significance of TK Protection
6th	1st	value of TK in global economy
	2nd	value of TK in global economy
7th	1st	Role of Government to harness TK
	2nd	Role of Government to harness TK
8th	1st	Legal framework and TK: The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006
	2nd	Legal framework and TK: The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006
9th	1st	Plant Varieties Protection and Farmer's Rights Act
	2nd	2001 (PPVFR Act); The Biological Diversity Act 2002 and Rules 2004
10th	1st	the protection of traditional knowledge bill, 2016
	2nd	the protection of traditional knowledge bill, 2016
11th	1st	Traditional knowledge and intellectual property: Systems of traditional knowledge protection
	2nd	Legal concepts for the protection of traditional knowledge
12th	1st	Patents and traditional knowledge, Strategies to increase protection of traditional knowledge
	2nd	Geographical Indications (GI)
13th	1st	Traditional Knowledge in Different Sectors: Traditional knowledge and engineering
	2nd	Traditional medicine system, TK in agriculture
14th	1st	Traditional societies depend on it for their food and healthcare needs
	2nd	Importance of conservation and sustainable development of environment
15th	1st	Management of biodiversity
	2nd	Food security of the country and protection of TK

Learning Resources:

Traditional Knowledge System in India, by Amit Jha, 2009.
 "Knowledge Traditions and Practices of India" Kapil Kapoor.
 Madhya Himalayl Sanskritl mein Gyan, Vigyan evam Paravigyan by Prof PC Pandey.

Chinmaya Brahmadarshi
Mishra
Signature
of Faculty


Signature of HOD/


Signature of Academic
Coordinator

Signature of Principal