GOVERNMENT POLYTECHNIC JAJPUR		
DEPARTMENT OF MINING ENGINEERING		
LESSON PLAN		
Discipline: MINING	Sem: 4TH	Name of the Teaching faculty: SOMESH JENA
Subject: ESSENCE OF INDIAN KNOWLEDGE AND TRADITION	No of Days/Week class alloted: 2	Semester from Date: 22/12/25 To Date: 18/04/26 No of weeks: 15
Week	**Class Day**	**Topics**
1st	1st	Introduction to traditional knowledge: Define traditional knowledge, nature and characteristics, scope and importance
	2nd	kinds of traditional knowledge (Unani / Siddha/ Ayurveda), Indigenous Knowledge (IK), characteristics,
2nd	1st	traditional knowledge vis-a-vis indigenous knowledge, traditional knowledge of Odisha
	2nd	Protection of traditional knowledge (TK): The need for protecting traditional knowledge
3rd	1st	Significance of TK Protection, value of TK in global economy
	2nd	Role of Governmentto harness TK.
4th	1st	Legal framework and TK: The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006
	2nd	Plant Varieties Protection and Farmer's Rights Act, 2001 (PPVFR Act)
5th	1st	Plant Varieties Protection and Farmer's Rights Act, 2001 (PPVFR Act)
	2nd	The Biological Diversity Act 2002 andRules 2004
6th	1st	The Biological Diversity Act 2002 andRules 2004
		the protection of traditional knowledge bill, 2016.
	2nd	the protection of traditional knowledge bill, 2016.
		Traditional knowledge and intellectual property: Systems of traditional knowledge protection
7th	1st	Traditional knowledge and intellectual property: Systems of traditional knowledge protection
	2nd	Legal concepts for the protection of traditional knowledge, Patents and traditional knowledge
8th	1st	Legal concepts for the protection of traditional knowledge, Patents and traditional knowledge
	2nd	Strategies to increase protection of traditional knowledge, Geographical Indications (GI).
9th	1st	Strategies to increase protection of traditional knowledge, Geographical Indications (GI).
	2nd	Traditional Knowledge in Different Sectors: Traditional knowledge and engineering
10th	1st	Traditional Knowledge in Different Sectors: Traditional knowledge and engineering
	2nd	Traditional medicine system
11th	1st	TK in agriculture
	2nd	Traditional societies depend on it for their food and healthcare needs
12th	1st	Traditional societies depend on it for their food and healthcare needs

	2nd	Importance of conservation and sustainable development of environment
13th	1st	Importance of conservation and sustainable development of environment
	2nd	Management of biodiversity
14th	1st	Food security of the country and protection of TK
	2nd	Food security of the country and protection of TK
15th	1st	Revision
	2nd	Revision

1. Cultural Heritage of India- Course Material by V. Sivaramakrishna Bharatiya Vidya Bhavan, Mumbai, 5th Edition, 2014.
2. Modern Physics and Vedant by Swami Jitatmanand, Bharatiya Vidya Bhavan.
3. The wave of Life by Fritzof Capra
4. Tao of Physics by Fritzof Capra
5. Tarkasangraha of Annam Bhatta, Inernational by V N Jha Chinmay Foundation, Velliarnd, Amaku,am
6. Science of Consciousness Psychotherapy and Yoga Practices by RN Jha Vidyanidhi Prakasham, Delhi, 2016

Signature of Faculty