

SNDT Women's University, Mumbai

Inception of Indian Knowledge System

as per NEP-2020

Syllabus

(w.e.f. 2024-25)



Under Graduate

Indian Knowledge System / Generic

Course Title: Inception of Indian Knowledge System

Course Credit: 02 Duration: 30 hours

Marks: 50

Mode: Offline / Online

Programme:	Inception of Indian Knowledge System
U.G. Generic Course in IKS	
Course Credit	02 Credit
Preamble (Brief Introduction	Bharat is considered one of the oldest civilizations of the
to the Course)	world. Some of the archaeological evidences proved
	existence of Indus civilization in 7000 B.C Bhartiya
	traditions, culture, cultural activities, rituals, sacraments,
	painting, art of dancing, art of singing etc. is being
	practiced till the modern times without knowing scientific
	approaches behind that. Eternity of Indian knowledge
	system proved itself that not only many rituals but also
	many traditions, many streams of knowledge like
	astrology, mathematics, physics, chemistry, biology, yoga
	and meditation had been following from the starting to till
	now with some changes, in the form of traditions when
	that were started but overall essence of Indian knowledge
	system we are following continuously.
	This course is for undergraduate students to inculcate
	Indian values in the students. It will promote advance
	study and inter disciplinary research on all aspects of
	Indian knowledge system.
Course Outcomes (COs)	This course aim is-
. ,	1. to provide a tribune of our rich culture and traditions of

Indian knowledge system to students of various
discipline.
2. to develop over all understanding of the various
components of Indian knowledge system.
3 to carroad awakening about scientific and eternal
3. to spread awakening about scientific and eternal
knowledge of the Indian knowledge system.
4. to promote advance study and inter disciplinary
research on all aspects of Indian knowledge system.
Adding career, professional and business opportunities to
the students of various discipline.

Course Title	Inception of Indian Knowledge System	Hours			
		30			
Module 1 (Cr	Module 1 (Credit 1): Antiquary and development of Indian knowledge system				
Loorning	After learning the module learners will be able to				
Learning	After learning the module, learners will be able to:				
Outcomes	1. Recognize the sources and concept of Indian knowledge system.				
	2. Describe about scientific approaches and techniques, used in Indus				
	Valley Civilization, Vedic Civilization and others.				
	3. Illustrate the origin and development of astronomy and	mathematics.			
	4. Analyze & compare the significances and benefits of I	ife sciences in			
	plants, ayurveda, medicines, yoga, meditation etc.				
	5. Justify eternal values as a essence of life sciences in ancient India.				
	6. Develop scientific approach incorporated in Indian know	ledge system.			
Content	Antiquary of Indian knowledge system				
Outline	Basic knowledge and scope of IKS	8 Hours			
	Archaeological Sources of IKS- Pre historic period's				
	evidences				

	Indus Valley Civilization-	7 Hours
	Various aspects of Vedic civilization	
	Dharma and darshan- Vedic Dharm and Shad Darshan	
	(6+3)	
	Development of scientific thoughts in ancient India	
	Development of Science and Technology in ancient India	
	Astronomy - Aryabhatta and Varahmihir	
	Mathematics- Shulvasutra and Baksali manuscript,	
	Formulation of Arithmetic, Algebra and trigonometry	
	Life Sciences – Life science in Plants, Anatomy,	
	Physiology, Ayurveda, Medicine, Microbiology, Surgery,	
	Yoga and Meditation etc.	
Module 2 (Cr	edit 1): Development of Engineering Science, Technology	& Fine
Arts in India		
Learning	After learning the module, learners will be able to:	
Outcomes	1. define system, methods and engineering science from	ancient India
	to modern times.	
	2. elaborate vast contribution of ancient Indian researcher	s, scientists
	and architects to the modern world.	
	3. demonstrate many examples in various fields like	agriculture,
	industry, architecture and performing arts etc.	
	4. differentiate various aspects of life from ancient to mode	rn times.
	5. determine the structure and composition of India	n knowledge
	system.	
	6. build a strong clairvoyance of the contributions of India	an knowledge
	system to mankind	
Content	Development of Engineering Science & Technology in	8 Hours
Outline	India	
	Agriculture, Metallurgy	
	 Various Industries- Silk Industry, cotton Industry and ship building 	
	Indian Fine Arts-	
	Cave architecture	

Temple architecture	7 Hours
Vastu- Vidya	
Sculpture	
Forts and Stepwells	
Observatories	
Paintings	
Development of Performing arts & culture in India-	
Music	
Art of singing	
Art of dancing	
Natyakala	
Cultural traditions	
Folk arts	

Suggested Pedagogy for Teachers:

- 1. Project based activities and learning.
- 2. Presentation and case studies.
- 3. Film screening and book reviews.
- 4. Visit to historical places, archives centre, research centre or library nearby.

Assessment Criteria:

10m = Assignment/ Presentation (related to syllabus)

10m = MCQ Exam

30m = Theory exam

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Websites:

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 Address by Prof Kapil Kapoor | Indian Institute of Advanced Study (FDP 2021)
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 "भारतीय ज्ञान परंपरा और उसका वर्तमान सन्दर्भ" प्रो. रजनीश कुमार शुक्ल का विशेष व्याख्यान महात्मा गांधी अंतरराष्ट्रीय हिंदी विश्वविद्यालय, वर्धा Mahatma Gandhi Antarrashtriya Hindi VishwaVidyalaya,Wardha
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 Ancient India's Scientific Achievements & Contribution in Mathematics, Astronomy, Science & Medicine
