

Quantum University, Roorkee

IKS and UNDP Courses Implementation for Batches Admitted in Yr 2022
Program Wise Semester Wise Teaching Details

Dated: 25.1.23

S.No.	Program	Strength	Total	Sem 2	Sem 3
1	B.Tech	474	591	IKS	UNDP
2	Economics	4		IKS	UNDP
3	English	10		IKS	UNDP
4	Psychology	7		IKS	UNDP
5	BJMC	5		IKS	UNDP
6	BSc Animation & VFX	11		IKS	UNDP
7	BMLT	15		IKS	UNDP
8	BMRIT	31		IKS	UNDP
9	BSc ND	34		IKS	UNDP
10	BCA	258	590	UNDP	IKS
11	BBA	156		UNDP	IKS
12	B.Com	56		UNDP	IKS
13	BA LLB+BBA LLB	53		UNDP	IKS
14	BSc Chemistry	2		UNDP	IKS
15	B Sc Maths	7		UNDP	IKS
16	B Sc Physics	4		UNDP	IKS
17	Agriculture	43		UNDP	IKS
18	BHM	11		UNDP	IKS

BCI Syllabus
need to be
followed

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- Session 22-23
- Put up in AC, BOM.
- May be in MOOC Too.

Vivek Kumar

(Dr. Satender Kumar)
Dean Academics

(Prof. Vivek Kumar)
Vice Chancellor



Registrar
Quantum University

HU3202	Title: United Nations Development Programme	L T P C 1 0 0 1
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	To develop crosscutting key competencies for sustainability that are relevant to all sustainable development goals.ESD can also develop specific learning outcomes needed to work on achieving a particular SDG.	
Unit Nos.	Unit Title	Number of hours (Per Unit)
Unit I	Introduction	2
Introduction to UNDP, Mission and Vision of UNDP, Goals of UNDP, Structure of UNDP Executive Board and function of UNDP Board members, Expertise of UNDP, UNDP in India: Projects of UNDP in India.		
Unit II	Sustainable Livelihoods	3
Vision and Strategy for Sustainable Livelihoods: Hill Agriculture / Horticulture, Tourism and Other avenues for generating Sustainable Livelihoods. Strategies for End of hunger, achieve food security and improved nutrition and promote sustainable agriculture Promote Sustained, Inclusive and Sustainable Economic Growth, Full and Productive Employment and Decent Work for All. Build Resilient Infrastructure, Promote Inclusive and Sustainable Industrialization and Foster Innovation		
Unit III	Human Development	2
Access and explore human development data for 191 countries and territories worldwide. Ensure healthy lives and promote well-being for all at all ages, Ensure Inclusive and Equitable Quality Education and Promote Lifelong Learning Opportunities, Ensure availability and sustainable management of water and sanitation.		
Unit IV	Social Development	2
Achieve Gender Equality and Empower All Women and Girls, Reduce Inequality within and Among Countries, Promote Peaceful and Inclusive Societies for Sustainable Development, Provide Access to Justice to All and Build Effective, Accountable and Inclusive Institutions at All Levels		
Unit V	Environmental Sustainability	3
Ensure access to affordable, reliable, sustainable and modern energy, Make Cities and Human Settlements Inclusive, Safe, Resilient and Sustainable, Ensure Sustainable Consumption and Production Patterns, Urgent Action to Combat Climate Change and its Impacts, Protect, Restore and Promote Sustainable Use of Terrestrial Ecosystems, Sustainably Manage Forests, Combat Desertification, and Halt and Reverse Land Degradation and Halt Biodiversity Loss.		
Text Books	https://unesdoc.unesco.org/ark:/48223/pf0000247444	
Reference Books	http://web.undp.org/evaluation/documents/Books/Evaluation_for_Agenda_2030.pdf Digambar Bhouraskar, 2014, United Nations Development Aid: A History of Undp, Academic Foundation Publisher, 230	
Mode of Evaluation	Internal and External Examination	
Recommended by the Board of Studies on	09/07/2022	
Date of approval by the Academic Council on	20/10/2022	

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*Lee.
Vineet Kumar*



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HU3201	Title: Indian Knowledge System	L T P C 1 0 0 1
Version No.	1.0	
Course Prerequisites	Nil	
Objectives	To understand and appreciate the rich heritage that resides in our traditions, To inculcate an understanding of the mind/voice dynamic and its function in Indian knowledge systems, To learn the roots of the Indian philosophical concepts, Being primed for practices that will prepare one for the inner-journey to discover the self.	
Unit Nos.	Unit Title	Number of hours (Per Unit)
Unit I	Overview of IKS	2
Survey of IKS Domains: A broad overview of disciplines included in the IKS, and historical developments. Sources of IKS knowledge, classification of IKS texts, a survey of available primary texts, translated primary texts, and secondary resource materials. Differences between a sutra, bhashya, karika, and vartika texts. Fourteen/eighteen vidyasthanas, tantrayukti		
Unit II	Vocabulary of IKS	2
Introduction to Panchamahabhutas, concept of a sutra, introduction to the concepts of non-translatable (Ex. dharma, punya, aatma, karma, yagna, shakti, varna, jaati, moksha, loka, daana, itihaasa, puraana etc.) and importance of using the proper terminology. Terms such as praja, janata, loktantra, prajatantra, ganatantra, swarjya, surajya, rashtra, desh,		
Unit III	Philosophical foundations and Methods of IKS	3
Philosophical foundations of IKS: Introduction to Samkhya, vaisheshika and Nyaya Methods in IKS: Introduction to the concept of building and testing hypothesis using the methods of tantrayukti. Introduction to pramanas and their validity, upapatti; Standards of argumentation in the vada traditions (introduction to concepts of vaada, samvaada, vivaada, jalpa, vitanda). Concept of poorvapaksha, uttarapaksha		
Unit IV	Case Studies	2
<ul style="list-style-type: none"> Mathematics of Madhava, Nilakantha Somayaji Astronomical models of Aryabhata Wootz steel, Aranumula Mirrors, and lost wax process for bronze castings Foundational aspects of Ayurveda Foundational aspects of Ashtanga yoga Foundational aspects of Sangeeta and Natya shastra 		
Unit V	India and the World	3
Influence of IKS on the world, knowledge exchanges with other classical civilizations, and inter-civilizational exchanges.		
Text Books		
Reference Books	<ul style="list-style-type: none"> An Introduction to Indian Knowledge Systems: Concepts and Applications, B Mahadevan, V R Bhat, and Nagendra Pavana R N; 2022 (Prentice Hall of India). Indian Knowledge Systems: Vol I and II, Kapil Kapoor and A K Singh; 2005 (D.K. Print World Ltd). The Beautiful Tree: Indigenous India Education in the Eighteenth Century, Dharampal, Biblia Impex, New Delhi, 1983. Reprinted by Keerthi Publishing House Pvt Ltd., Coimbatore, 1995. Indian Science and Technology in the Eighteenth Century, Dharampal. Delhi: Impex India, 1971. The British Journal for the History of Science. 	
Mode of Evaluation	Internal and External Examination	
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