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Indian knowledge system's codes, signs, symbols, taxonomy, infographic, iconography, formula, diagram for yogic-vedic-philosophy

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Abstract

Modern times demand taxonomically organized, precise, easily transferable & quickly understandable form of Indian Knowledge System (IKS). It is also necessary to safeguard the indigenous knowledge. For any subject, taxonomy plays a critical role. There is a need to revive & recreate IKS based taxonomy. This paper mostly caters to Vedas-Yog-Philosophy. The aim of this paper is to initially create IKS based standard taxonomy & then display its use through few examples. The study has used integral research approach with mixed tools including mathematical models. The revised & newly created resultant Annexure & related formulas/diagrams has aided to simplify, make precise & compare IKS based concepts. It has tried to establish IKS at par with modern science. It can prove to be powerful knowledge transfer tool for the IKS related studies. Also it can help in safeguarding the purity & preciseness of the IKS. To standardize this taxonomical protocol further research can be done.

Keywords: Indian knowledge system (IKS), vedas-yoga science, taxonomy, infographic

Introduction

''उत्तरं यत् समुद्रस्य हिमाड्रेश्चैव दक्षिणम् । वर्षं तद् भारतं नाम भारती यत्र सन्तति:'' Uttaram yatsamudrasya himādreścaiva daksinam/ varsam tadbhāratam nāma bhāratī yatra santatih (Vishnu Puran 2.3.1). The country that is situated north of the ocean & on south of the snowy mountains is called Bharatam. Its residents are named as Bhartee" (PIB Delhi, 2022) ^[12]. The ancient text further classifies & names many kingdoms, rivers, mountains etc. The confirmed name for objects, men, countries etc. are significant. "During Vedic period around 2500 BC to 600 BC, plant taxonomy & study of medicinal plants had been developed" (Balkrishna et al., 2019)^[2]. The importance of taxonomy is highlighted as follows- "The classification systems reflect a social relation applies to a wide range of areas, from medical diagnostics to the categorization of science & knowledge. Changes to classification systems can also have consequences for the social world, economics & the power relations it entails. An official documentation & classification system can bridge the presumed gap between formal & informal knowledge systems, acknowledge traditional knowledge as prior art & thereby prevent misuse of such knowledge" (Fredriksson, 2023, p. 16)^[22]. Due to deliberate ongoing social, political, cultural, geographical, historical attacks on Bharat & its eternal heritage, for IKS it becomes critical to redefine taxonomy, symbolism, infographic etc. IKS is facing much broader issues & conspiracies. "Through mapping the disjointed parts of Indian culture on to the western taxonomy which is touted as the objective standard, the west conspired to dismantle our indigenous knowledge systems" (Batra, 2024, p. 186). Batra adds that the European colonizers not only benefited from IKS but also stole, rebranded, repacked & marketed it back to India. They imposed their knowledge & systematically destroyed the rich & precious Indian knowledge. With such a background, this paper aims to standardise, code, signify, symbolize, simplify, chart out taxonomy, ascertain iconography, decide infographic & design formulas for IKS related to Philosophy/Vedas/Yoga Science.

Corresponding Author: Dr. Chaitanya C Ugale Ph.D., University of Patanjali, Haridwar, Uttarakhand, India The methodological commonality for taxonomy between modern science & IKS can be understood as follows, "Fundamental architectures of angiosperm flowers shown by 2 methods as pictorial approach (Floral diagram) & textual approach (Floral formula)" (Prenner et al., 2010, p. 242)^[13]. Similarly in IKS established 1st pictorial approach (floral diagram) is like " \pounds " (Ugale, 2023) ^[17] & the 2nd textual approach (floral formula) is like "ARL \rightarrow AQL \rightarrow AOL" (Ugale & Singh, 2020) ^[18]. Example of its abbreviation & sequence is like ARL, AQL, & AOL. Example of their levels is metaphysical levels (US, MS LS), levels of Consciousness, levels of human personality, etc. This paper integrated the floral diagram, floral formula, & abbreviations in this context. Famous floral diagram is, "The UNESCO's logo for IDY: the folding of both hands in symbolizes Yoga, the union, which reflects the union of individual Consciousness with that of universal consciousness, a perfect harmony between mind & body, man & nature; a holistic approach to health & wellbeing. The brown leaves in the logo symbolize the Earth element; the green leaves symbolize the Nature; blue symbolizes the Water element, brightness symbolizes the Fire element & the Sun symbolize the source of energy & inspiration. Finally, it reflects harmony & peace for humanity, which is the essence of Yog" (Fang et al., 2020)^[6].

The ancient taxonomy from IKS is as follows-"The classical Indian literature is classified as chaturdaśa-vidyā-sthānas (14 knowledge places) consisting of • the 4 Vedas (Rgveda, Yajurveda, Sāmaveda, Atharvaņaveda) • the 6 Vedāngas (Śiksā, Kalpa, Vyākarana, Chhandas, Niruktam & Jyotisa) • Itihāsa (Rāmāyana & Mahābhārata) & Purāna (Visnupurāna, Bhāgavata etc.) • Dharmaśāstra (Manusmrti, Yājñavalkyasmrti, Parāśara-smrti etc.) · Darśana (Six orthodox & six heterodox systems) • Nyāya (Logic & Epistemology). Adding 4 Upavedas (Āyurveda- health-care), Dhanurveda-archery, Gandharva-veda-dance, music etc. & Sthāpatyavedaarchitecture) totalling 18 (astādaśa)" (AICTE, MoEDU, India, n.d.). IKS also includes 64 kalas/arts. Modern Vedanta example can be "Swami Chinmayananda invented a popularly known BMI chart to explain the esoteric teachings of Advaita Vedanta to the modern world in a simplified form. It describes the complex existence of human beings. It became central to his teachings.

	3%	
	V(Vāsanās)	
B(Body)	M(Mind)	I(Intellect)
P(Perceiver)	F(Feeler)	T(Thinker)
O(Objects)	E(Emotions)	T(Thoughts)

Swamiji justified this chart saying that science has made considerable progress in the objective/external world & must turn now to the inner/subjective world" (Kaarep, 2014). Prominent IKS philosophy "Samkhya means 'enumeration' or 'counting' which referred to the central method of rational reflection on *taxonomy of the constituents of reality*" (O'Brien-Kop, 2023) ^[11].

Recent classifications of Yogic concepts are as follows-(Verma *et al.*, 2020) ^[19] "Explored human pose recognition from a different direction by proposing a new dataset, with 82 yoga pose classes". Similarly (Yadav *et al.*, 2022) ^[20] gave "New benchmark dataset for yoga action recognition as YogaTube". These researchers used technology to recognise & classify Asana which is not a postural style of Yoga but it is only the 1st limb of Yoga. A researcher (Collardeau, 2022) ^[5] felt "lack of Yoga taxonomy" & built one along with thesaurus. (Nash & Newberg, 2022) ^[10] Opined that "There is a shortage of & need of taxonomy & classification of meditation methods". These researchers have reclassified this 7th limb of Yoga. With such background current paper tries further simplification & representation of IKS concepts for its easy & effective transfer.

Materials and Methods

This paper used Sri Aurobindo's integral research approach with mathematical modelling tools. The procedure includes analysis of subject's key concepts, their synthesis, & their integration, presentation & applications into totally new form. It also utilized scientific approach, experiential knowledge & intuitional faculty of the researcher. Further to the IKS based texts, the fundamental Philosophical / Vedic / Yogic concepts, current mathematical / operational / process symbols, & multiple symbols from the MS Word & also self-designed special characters, the author has tabulated the attached *Annexure*. Here, author has proposed a possibly most appropriate codes, signs, symbols, taxonomy, infographic, iconography, formulas, diagrams etc. for teaching the Indian Knowledge System's Philosophy / Vedic / Yogic Science.

Results

Following examples showed the application of the annexure-

Example I: "यमनियमासनप्राणायामप्रत्याहारधाराणाध्यानासमाधयोऽष्टवंगनि" Yam niyam asan pratyahar dharana Dhyan samadhyo ashavangani (Maharishi Patanjali, N.D., p. 2). These are 8 limbs of Yoga misunderstood by many as 8 steps of Yoga. It can be presented as-

$$8 \ge \neq (\underline{a} < (\underline{i}) < > < \underline{1}\overline{\mathbf{f}} < \mathbf{e} < < < \underline{a} < \circledast) but, 8 \ge (\underline{a}, (\underline{i}), >, \underline{1}\overline{\mathbf{f}}, \mathbf{e}, <, \underline{a}, \varepsilon, \underline{a}, \mathfrak{s})$$

"Is yoga considered exercise within systematic reviews of exercise interventions? A scoping review" focussed on Modern Postural Yoga (MPY) (Brinsley *et al.*, 2021) ^[4]. But "तिथासुखम् आसनम्" *Sthir Sukham Asanam* (Maharishi Patanjali, N.D., p. 3). Asana is defined by maharishi Patanjali as 'stable, easy bliss' & not as Vyayama / exercise. Additionally it is effortless & leads to Siddhi & it leads to end of duality or its reduction. $\therefore > \neq$ Exercise, but $> = \bigcirc + >$. In contrast to (Brinsley *et al.*, 2021) ^[4], above formulas clearly shows Asana 'only as a 3rd limb of Yoga' & 'not an exercise' & 'not the whole Yoga'.

Example II: "योगश्चित्तवृत्तिनिरोधः I तदा दुष्टुः स्वरूपेऽवस्थानम्" (Maharishi Patanjali, N.D., p. 1) "Yoga occurs when the machinations, vacillations, perturbations, whirling, spinning, & agitations (vrtti) of the mind-field (Chitta) dissolve, cease, & become still (nirodha) (PYS 1.2)" (Manek, 2016) ^[9]. It can be presented as-

$(0 \ge \{\bigcirc, \bigcirc, \oslash, \bigcirc, >\}) \to > \to \bigcirc$

Example III: "Vasana is like a field' & 'Karamashaya is like a seed' & 'birth or embodiment is like a tree' & 'experience of pleasure or pain is like its fruits' (Puranik, 2018, p. 330)^[4]. Swami Chinmayananda unfolded the root of existence as, "The world is the final projection of the total Vasanas playing in life" (Swami Chinmayananda, 2024)^[16]. "Afflictions are

the force behind the fruition of life tree imprinting the impressions on the screen of consciousness. Yoga Sutra emphasized that so long as the root of Karmashaya is there; it ripens & gives forth to birth, class, span of life & experience" (Shree, 2013, p. 1)^[15].

Growth factor (A) = $P(1 + r \%)^t$

(A =Accumulated amount, P =Principal amount, r =Rate of Interest in %, t =Time, I =Accumulated interest amount) Assume if, A=Tree of Life, P=Vasana Field, r = Seed, I = Fruits, t = Time. Then, Tree of Life= Vasana Field (1 + Seed

%) ^time. Or, $\mathfrak{G} = (\mathfrak{H} \rightarrow \mathfrak{M}) (1 + :: \%) ^{\mathbb{Z}}$ A - P = I, Then, $\mathfrak{G} - (\mathfrak{H} \rightarrow \mathfrak{M}) = \mathfrak{M}$

 \therefore \triangle of seed-tree-fruits implies Samskara-Samsara-Life experiences

Example IV- Assume if, Seed Coat=Ignorance, Embryo=Life force + Knowledge & Consciousness + Karma Samskara, Endosperm=Memory, Cotyledons=Vrutti. Then,

$$\widehat{\boldsymbol{\mathbb{G}}} = (\ddot{\mathbf{I}} (\geq + \mathbf{v} + :: + >) \leftrightarrow \vec{\mathbb{Q}}))$$

Example V: *"चतोऽभ्युदयनिःश्रेयससिद्धिः स धर्मः* (1.1.2) yato'bhyudayaniḥśreyasasiddhiḥ sa dharmaḥ. Vaiśeṣika defined dharma is that from which well-being (abhyudaya) & the highest good (niḥśreyasa) come about. It is all about upliftment & liberation" (Bharti, 2018) ^[3].

$$\underline{O} \rightarrow [\underline{\&}], \underline{~}, \infty$$

Example VI (Using Levels & Abbreviations)

Lower State Prakruti is projection & expansion of Upper State Brahman.

$$\mathrm{US} \stackrel{\clubsuit}{\Longrightarrow} \to \mathrm{LS} \, \textcircled{\otimes}$$

Middle State Atman covered by ignorance/maya becomes lower state Jivatman & suffers endlessly.

 $MS \bigcirc X \And = LS [\bigcirc]$

Similarly people can keep improvising the way *Annexure* is used & create its novel applications.

Discussions

Current study can be extension, matching, & enriching author's previous similar IKs taxonomical study (Ugale, 2023) [17] & formulas, abbreviations based study (Ugale & Singh, 2020) [18]. Floral formulae, floral diagrams & century long history of its educational & research applications (Prenner et al., 2010, p. 242) [13] became the foundational building block to bring this IKS based study at par with modern science with novelty. This in depth exploration can continue to guide further similar IKS researches. Additional to ancient nature of taxonomy in IKS (Balkrishna et al., 2019) ^[2], Swami Chinmayananda's BMI chart (Kaarep, 2014) ^[7] & light on Samkhya taxonomy (O'Brien-Kop, 2023) [11] current study tries to improvise & enhance IKS based taxonomy using integral research method enabling integration & setting up new standards with modern science. As a field, (Collardeau, 2022)^[5] found shortage Yoga taxonomy & along with thesaurus compiled it in own ways. To classify meditation (The 7th limb of Yoga) methods (Nash & Newberg, 2022) found scarcity & need of taxonomy. In contrast to technology aided recognition & classification of Yoga Asanas (the 1st limb of Yoga) (Verma *et al.*, 2020)^[19] & (Yadav *et al.*, 2022)^[20] current study explored broader subject.

Considering the economic, social, power related importance of the taxonomy (Fredriksson, 2023, p. 16) [22] & need of protection from colonial cultural genocides" (Batra, 2024), current study has tried to initiate a robust IKS based knowledge transfer tool for generations to come. Like exploration of the UNESCO's International Yoga Day logo (Fang *et al.*, 2020)^[6] current Annexure do shows the potential to propagate universal meanings of IKS. Compared to following studies, current study has given few related examples & also. Dharma's prolonged definition & deliberations by (Bharti, R. 2018)^[3] current study gave its concise formula. Contrary to (Brinsley et al., 2021)^[4] current study clarified the misinterpretation about Ashtang Yoga through formulas. It has clearly discriminated between the limbs of Yoga or steps of Yoga & Asana or exercise. The proposed formulas, diagrams, abbreviations, levels, icons, infographic, signs, codes, taxonomy can be easily inserted in text & usable.

Conclusion

IKS based Annexure & its exemplified applications using 'Vedic-Yogic-Philosophical formulas, abbreviations, levels & nomenclature' can be powerful educational tools. These formulas constituted standardised universal, unified, reliable. mixed qualitative-quantitative compacted. explanation. It serves as a unique, tabulated identity for this study discipline. Creating such formulas demands precise analysis, then synthesis & then integration of concepts under teaching/research. The diagrams can also serve purpose of learning & understanding. Mixed use of both diagrams & formula is recommended here. Both can be readily inserted into the body of text. Carrying these taxonomical elements must become necessary elements of official IKS description. The symbolised means of knowledge transfer done here can be effective in summarizing, teaching, representing, conveying & universally standardising the complicated concepts of IKS. This paper has tried to revive & create the taxonomy for the complex IKS based texts, the fundamental Philosophical / Vedic / Yogic concepts. This is also an attempt to establish standards amongst the international IKS community for the 'Vedic-Yogic-Philosophical formulas, abbreviations, levels & nomenclature' & its minimum requirement for any proper taxonomical explanation. US, MS, & LS are the levels & Annexure has a sequence. It not only reflects the accurate meanings but also helps in integration of multilevel diverse concepts of IKS. This tabulation can facilitate the enthusiasts to simply follow the trends in the IKS related taxonomy. This protocol can serve many diverse interests including purity & preservation of IKS based knowledge. Further exploration regarding creation & creative use of the Annexure can be done. Researchers can further criticise & keep improving upon this idea so as to arrive at the agreement for the formulas.

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Annexure

स्तर	भारतीय ज्ञान प्रणाली संबंधित सिद्धांत, संहिता, शब्दावली प्रतीक, संकेत, चिन्ह, वर्गीकरण सूचन	गाचित्र
Levels	Indian Knowledge System related Concepts, Terms, Codes, Signs, Symbols, Taxor	nomy, Infographic
उच्च संच Upper Set	ब्रह्मण Brahman / Unified Field / Unity Consciousness	
मध्यं संच Middle Set	आत्मन Atman / Purusha / Turiya / Swarup	Q
अधः संच Lower Set	प्रकृती Prakruti / Mother Nature / Matter	ŵ
	जीवत्मन Jivatman / Atman in Maya	[<u>O]</u>
	प्रकृती त्रिगुण Prakruti's Triguna (सत्त्व, Sattva, रज Raj, तम Tam)	Ψ (Δ, Ϋ, ∀)
	प्राण Prana-Life force	~~
	प्रज्ञा Pradnya - Transcendental Wisdom	ک
	अहंकार Ahamkar / 'I' Maker / Doer	ĩ
	बुद्धी Buddhi / Intellect	>
	चित्त Chitta / Psyche	
	मानस Manas / Mind	≋
	संस्कार Samskara / Karma Seeds	::

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कर्मशय Karmashaya / Karma Storehouse	
वासना Vasana / Klesha / Mental Tendencies	Ħ

7 चेतना स्तर Levels of Consciousness 🕉		
निद्रा चेतना Nidra / Sleep Consciousness	•	
स्वप्न चेतना Swanpna / Dream Consciousness	۲	
जागृत Jagrat /Awake Consciousness	D	
तुर्या चेतना Turiya /Transcendental Consciousness	Q	Same as Atman
तूर्यातीत चेतना Turiyateet / Cosmic Consciousness	0	
भागवत चेतना Bhagvad / God Consciousness	0	
ब्रह्म चेतना Brahmn / Unity Consciousness	 /33	Same as Brahman

7 चक्र Chakras		
सहस्रार चक्र Sahasrar Chakra	\bigcirc	
आज्ञा चक्र Adnya Chakra	$\langle \! \bigcirc \! \rangle$	
विशुद्ध चक्र Vishuddha Chakra	\bigcirc	
अनाहत चक्र Anahat Chakra	\bigcirc	
मणिपूर चक्र Manipur Chakra	\bigcirc	
स्वादिष्टान चक्र Swadhishtan Chakra	Ô	
मुलाधार चक्र Muladhar Chakra	Đ.	

4 पुरुषार्थ Purush	arthas / Li	fe Goals
धर्म Dharma /	Q	Like Atman/ Turiya / Niruddha
अर्थ Arth / Prosperity, Wealth	Ľ	
काम Kam / Pleasure, Enjoyment, Desire	Ø	
मोक्ष Moksh / Freedom / Liberty	00	

अष्टांग योग Ashtanga Yog (8 Limbs of Yoga >)				
यम Yam / Moral, Ethical & Social Values	4	बहिरंग योग / External Yog		
नियम Niyam / Codes of Self Restrain	(;)	"		
आसन Asan / Poster	Â	"		
प्राणायाम Pranayam / Breath Control	Ŧ	"		
प्रत्याहार Pratyahar / Sense Withdrawal	*	"		
धारणा Dharana / Concentration	O	अंतरंग योग / Internal Yog		
ध्यान Dhyana / Meditation	B	"		
समाधी Samadhi / Balanced Intellect	*	"		

5 चित्तवृत्ती Chitta Vruttis / Whirlpool of Thoughts $ec{\mathcal{Q}}$	
प्रमाण Pramana / Correct Knowledge	Φ
विपर्याय Viparyaya / Incorrect knowledge	0
विकल्प Vikalpa / Imagination	0
निद्रा Nidra / Sleep	()
स्मृती Smruti / Memory	\$

5 क्लेश Kleshas / Mental Afflictions	
अविद्या Avidya / Ignorance	60
अस्मिता Asmita / False identity / Identification with Objects	i
राग Rag /Attraction	₩
द्वेष Dwesh / Repulsion	↔↔
अभिनिवेश Abhinivesh / Fear of Death	8

5 चित्तभूमि Types of Chittabhumi / Psyche's States		
क्षिम Ksipta / Distracted / Entropy M		

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मूढ Mudha / Dull	II	
विक्षिम Viksipta/ Occasionally Steady	ж	
एकाग्र Ekagra / One-pointed	Ū	
निरुद्ध Niruddha / Restrained / Syntropy / Dharma	Q	Like Atman/Turiya

5 संस्कर स्थिती / States of Samskara	
उदस Udara / Expanded	Ô
विच्छिन Vichinna / Repressed	Ŏ
प्रसुप्त Prasupta / Dormant	Õ
तनु Tanu / Attenuated	ö
दग्धबीज Dagdhabija / Burnt Seed	·

3 कर्म प्रकार Types of Karma	
प्रारब्ध Prarabdha / Destiny	Φ
क्रियामान Kriyaman / Current	Q
संचित Sanchit / Stored	θ

3 कर्म् परिणाम Consequences of Actions	
जाती Jati / Species	€
आयुर Ayur / Life / Birth	υ
भोग Bhog / Experience	≐

मिश्रित Miscellaneous	
भावना Bhavana / Becoming (Emotion)	न्न
धर्मक्षेत्र Dharmakhetra	[الله الله]
कुरुक्षेत्र Kurukhetra	[G]
समत्व Samatva / Equanimity	š * š
सुख Sukha / Bliss	
दुःख Dukkha / Misery	6
कर्म विपाक Karma Vipak / Action's Fruits	v
संसार Samsara / Tree of Life	A
मुमुझु Mumukshu / Knowledge Seeker	>
विद्या Vidya / Education & Learning	60
ज्ञान Dnyan / Knowledge	
परा विद्या Para Vidya / Knowledge of Beyond	I MS-US
अपराविद्या Apara Vidya / Worldly Knowledge	ls 🖉
Character	<u>@</u>
शारीरिक-मानसिक तनाव Physical-Mental Exertion	<
तृष्णा Trisna / Passion	68
मिताहार् Miatahar / Controlled Diet	•
दैवी Daivi / Divine / Good	6
असूरी Asuri / Demonic / Bad	U
मृत्यु Death	Ω
ब्रम्हस्थ: कर्म Brahmastha Karma's Action-Outcome	©*
योगस्थ: कर्म Yogastha Karma's Action-Outcome	+
स्थितप्रज्ञ Sthitpradnya	513
कुण्डलिनि Kundalini / Serpent Power	2
इड़ा- पिंगला-सुषुम्ना Ida-Pingala-Sushumna	
इड़ा Ida / Tha / Chandra/Moon)
पिंगला Pingala / Ha / Surya/Sun	Ċ.
आसक्ती Attachment	Û
बन्धन Bondage	<u></u>
स्वास्थ्य Swasthya / Well-being	[8]
कर्म Karma / Action (in Prakruti / Matter)	Ģ
योग Yog	٨
भक्ती योग Bhakti Yog	<u></u>
कर्मयोग Karma Yog	ଚ୍ଚି
ध्यान योग Dnyan Yog	۵.

अभ्यास Abhyas / Study	₩.
वैसम्य Vairagya / Dispassion	
शान्ती Shanti / Peace	æ
महर्षी पतंजली Maharishi Patanjali	8-

गणितीय चिन्ह / प्रवाह / प्रक्रिया / संचालन / कार्य		
Maths Symbols / Flow / Process / Operations / Function		
अंतर्गत प्रक्रिया Internal Processes	999	
रूपांतरण Transformation	7	
समय Time	X	
आवर्तन Cycle	П	
पर्याय Choice	Y	
परिवर्तन Change	Δ	
चर्या Habit / Recycle	<u>۵</u>	
सम्बन्ध Link	P	
छेद Intersect	Ω	
संयोग Union	U	
वा Or	•	
स्वतन्त्र Independent	11	