

।। सिध्दिरनेकान्तात।।

Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

E-mail: principal.tccollege@gmail.com

Religious Minority Institute

NAAC Reaccredited 'A+' Grade, CGPA 3.55

NAAC-SSR

Cycle IV

2019 - 2024

Criterion III: Research, Innovations and Extension

3.3.1 Q_nM Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

IKS Cell

The National Educational Policy 2020 (NEP 2020) recommends the incorporation of Indian Knowledge System (IKS) into the curriculum at all levels of education.

Indian Knowledge System encompasses all the systematized disciplines of Knowledge which were developed to a high degree of sophistication in India from ancient times and all of the traditions and practices that the various communities of India—including the tribal communities—have evolved, refined and preserved over generations. The UGC-recognized academic institutions provide undergraduate and postgraduate education to the most number of students in India and form the bedrock of the higher education system in India. Therefore, it is imperative that the curriculums in these institutions incorporate IKS-related subjects in their curricula to implement the NEP 2020 in letter and spirit.



List of IKS Courses 2023-24							
Sr N	Departm ent	Subj ect Code	Subject Name				
1	Commerce	COM- 137- IKS	Ancient Tax System - I				
			Topics and Learning Points				
	Syllab	us	Unit 1: Introduction to Indian Tax System 1.1 Meaning of tax, Nature and Scope 1.2 Objectives of Taxation in India, 1.3 Need and Importance 1.4 Characteristics of taxation in India Unit 2: Structure to Indian Tax System 2.1 Canons of Taxation 2.2 Constitutional background of taxation and distribution of revenue between Central and the States. 2.3 Introduction to Articles 245, 246 and 264 to 290A. 42 AES's T. C. College (Autonomous), Baramati. CBCS Syllabus 2023 Pattern as per NEP 2020				
			Department of Commerce F.Y. B.Com. Sem-I 2.4 Schedule Seventh: List I, II and III. 2.5 Administrative set up of Indian Tax System & Procedure. Unit 3: Direct and Indirect taxes 08 Lectures 3.1 Meaning and definition of Direct and Indirect taxes 3.2 Advantages and disadvantages of direct and indirect taxes 3.3 Distinction between Direct and Indirect taxes. 3.4 Direct and indirect taxes of Central Government & State Government.				
2	Physics	PHY- 137- IKS	Knowledge System of Bharata				



Unit 1: Bhāratīya Civilization and Development of Bhartiya Knowledge System Genesis of the land, Antiquity of civilization, On the Trail of the Lost River, Discovery of the Saraswatī River, the Saraswatī-Sindhu Civilization, Traditional Knowledge System, The Vedas, Main Schools of Philosophy (6+3), Ancient Education System, the Takṣaśilā University, the Nālandā University, Alumni, Knowledge Export from Bhārata. Unit 2:Arts, Literature, and Scholars in Ancient Bharat Art, Music, and Dance, Națarāja- A Masterpiece of Bhāratīya Art, Literature, Life and works of Agastya, Lopāmudrā, Ghoṣā, Vālmīki, Patañjali, Vedavyāsa, Yājňavalkya, Gārgī, Maitreyī, Bodhāyana, Caraka, Suśruta, Jīvaka, Nāgārjuna, Kaṇāda, Patañjali, Kauṭīlya, Pāṇini, Thiruvalluvar, Āryabhaṭa, Varāhamihira, ĀdiŚaṅkarācārya, Bhāskarācārya, Mādhavācārya. **Syllabus** Unit 3: Ancient Bhartiva Contribution towards Science & Mathematics Concept of Matter, Life and Universe, Gravity, Sage Agastya's Model of Battery, Velocity of Light, Vimāna: Aeronautics, Vedic Cosmology and Modern Concepts, BhāratīyaKāla-gaṇanā, Kerala School for Mathematics and Astronomy, History and Culture of Astronomy, Sun, Earth, Moon, and Eclipses, Earth is Spherical and Rotation of Earth, Archaeostronomy; Concepts of Zero and Pi, Number System, Pythagoras Theorem, and Vedic Mathematics. Unit 4:Ancient Bhartiya Engineering, Technology & Architecture [6L] Pre-Harappan and Sindhu Valley Civilization, Laboratory and Apparatus, Juices, Dyes, Paints and Cements, Glass and Pottery, Metallurgy, Engineering Science and Technology in the Vedic Age and Post-Vedic Records, Iron Pillar of Delhi, Rakhigarhi, Mehrgarh, Sindhu Valley Civilization, Marine Technology, and Bet- Dwārkā. Chemistry CHE-Indian Heritage of Chemistry 3 137-**IKS Teaching Hours** UNIT 1: Science and Technology in India Development of science in ancient India, Scientific and technological developments in medieval India, Science and technology in modern India, Scientists of ancient India, Science and Scientists of medieval India, Scientists of Modern UNIT 2: Chemistry in India: A Survey Introduction, Early Chemical Techniques, Atomism in Vaiseşika, Chemistry in Early Literature, The Classical Age, Laboratory and Apparatus, the major chemical products that contributed to the development of chemistry - Metallurgy, glass, paper, soap, dyeing, cosmetic and perfumes, ink etc. UNIT 3: Metallurgy in India Introduction, Metallurgy before and during the Harappan Civilization, Metallurgy after the Harappans, Iron Metallurgy, Wootz Steel, The Delhi Iron Pillar, Other Iron Pillars and Beams, zinc metallurgy, Social Context **Syllabus** UNIT 4: Ancient India's Contribution to Production of Dyes, Perfumes and Herbal Drugs Introduction. The Distillation of Perfumes, The Making of Dyes and Pigments, the smelting of metals, the making of drugs and herbal compounds, the cultivation and processing of UNIT 5: Ayurveda for Life, Health and Wellbeing: A Survey AES's T. C. College (Autonomous), Baramati. CBCS Syllabus 2023 Pattern as per NEP 2020 [Department of Chemistry] [F.Y.B.Sc. Sem I] Definition of Ayurveda, Integrative approach to healthcare, Balance of inner environment and personalized medicine. Harmony with the external environment. The principles of ayurvedic

30

healing. The five elements in nature make up the human body. Treating diseases to restore health.

4	Botany	BOT-	Botany in Ayurveda	
		137-		
		IKS		
			UNIT: 1	(10L)
			1.1 Definition, aim of Ayurveda, Brief description of Samhita and Ashtang. 1.2 Introduction to department of AYUSH, CCDA, CCDAS, BAY.	(06L)
			1.2 Introduction to department of AYUSH, CCIM, CCRAS, RAV.	(04L)
			UNIT: 2	(10L)
			2.1 Ancient Bhartiya Contribution in Environment & Health Ethnic Studies	•
			Life Science in Plants, Anatomy, Physiology, Agriculture, Ecology and	
			Environment.	(5L)
			2.2 Integrated Approach to Healthcare, Medicine, Microbiology, Medicine	
			and Yoga, etc.	(5L)
			Department of Botany F. Y. B.Sc. Semester-I	
			UNIT: 3	(10L)
			3.1 Study on following dravyas with respect to Sanskrit name, Co.	70.000 FT
			Botanical name, Family, habit, parts used Amalaki, Arjuna, Ashoka	The state of the s
			Bilva, Brahmi, Chandandravya, Chitraka, Daruh	aridra,Durva,
			ErandaGokshura,Guduchi, Nimba, Nirgudi,Punarnava, Shata	vari, Tulsi,
			Lavangakeshara.	(10L)
5	Zoology	ZOO-	Animal Diversity & Conservation in Indian Culture	
		137-		
		IKS		



			Unit No.	Subunit No	Details	Teaching Hours
				1.1	Introduction	
		1	. Sacred Animals of	1.2	Ants & Bees	
			India (Non-	1.3	Praying Mantis	06
			chordates)		Butterflies	
				1.5	Spider	
				2.1	Fish	
Syllab	115		Council Animals of	2.2	Frog	
Бупав		(AC 2015 / 1 1 AC	. Sacred Animals of	2.3 Tortoise & Snakes	12	
		inuia (Chorua	India (Chordates)	2.4		Eagle, Peacock, Owl
				2.5	Cow, Elephant, Horse	<u> </u>
		3.	. Introduction to	3.1	Eagle	
			Animal	3.2	Owl	
			Classification in	3.3	Crow	12
			Ancient India	3.4	Cow	12
				3.5	Buffalo	
				3.6	Horse	
		-		-		
Iicrobiolo	MIB-	Ethr	no-Microbiology			
\mathbf{y}	137- IKS					



	Syllabus		UNIT 1: Ancient Bhartiya Contribution towards Science & Mathematics (4L) Concept of Matter, Life and Universe, Gravity, Sage Agastya's Model of Battery, Velocity of Light, Vimāna: Aeronautics, Vedic Cosmology and Modern Concepts, Bhāratīya Kāla-gaṇaṇā, Kerala School for Mathematics and Astronomy, History and Culture of Astronomy, Sun, Earth, Moon, and Eclipses, Earth is Spherical andRotation of Earth, Archaeostronomy; Concepts of Zero and Pi, Number System, Pythagoras Theorem, and Vedic Mathematics UNIT 2: Ancient Bhartiya Contribution in Environment & Health (4L) Ethnic Studies, Life Science in Plants, Anatomy, Physiology, Agriculture, Ecology andEnvironment, Ayurveda, Integrated Approach to Healthcare, Medicine, Microbiology, Medicine, Surgery, and Yoga, etc. UNIT 3: Introduction to Ethno-microbiology (4L) • Definition of Fermentation • Historic and cultural heritage of Indian fermented foods • Types of ethnic fermented foods • Types of ethnic fermented foods • Benefits of fermentation (6L) UNIT 4: Curd Fermentation (6L) • Procedure of curd setting • Microorganisms present in curd • Role of microbes in setting curd • Benefits of consuming curd UNIT 5: Idli Fermentation (6L) • Preparation of idli batter and idli • Microorganisms present in idli batter • Role of microbes in fermenting idli batter • Benefits of consuming idli AES's T. C. College (Autonomous), Baramati. CBCS Syllabus 2023 Pattern as per NEP 2020	
			Microorganisms present in Jilebi batter Role of microbes in fermenting Jilebi batter	
	g	C.T. A	Benefits of consuming Jilebi	
7	Statistics	STA- 137- IKS	Evaluation of Science and Statistics in India	
	Syllabus		UNIT 1: Ancient Bhartlya Contribution towards Science & Mathematics (4L) Concept of Matter, Life and Universe, Gravity, Sage Agastya's Model of Battery, Velocity of Light, Vimâna: Aeronautics, Vedic Cosmology and Modern Concepts, Bhāratlya Kāla-gaṇaṇā, Kerala School for Mathematics and Astronomy, History and Culture of Astronomy, Sun, Earth, Moon, and Eclipses, Earth is Spherical andRotation of Earth, Archaeostronomy: Concepts of Zero and Pl. Number System, Pythagoras Theorem, and Vedic Mathematics UNIT 2: Ancient Bhartlya Contribution in Environment & Health (4L) Ethnic Studies, Life Science in Plants, Anatomy, Physiology, Agriculture, Ecology andEnvironment, Ayurveda, Integrated Approach to Healthcare, Medicine, Microbiology, Medicine, Surgery, and Yoga, etc. UNIT 3: Introduction to Ethno-microbiology • Definition of Ethno-microbiology • Definition of Fermentation • Historic and cultural heritage of Indian fermented foods • Types of ethnic fermented foods • Benefits of fermented food UNIT 4: Curd Fermentation • Procedure of curd setting • Microorganisms present in curd • Role of microbes in setting curd • Benefits of consuming curd UNIT 5: Idli Fermentation • Preparation of idli batter and idli • Microorganisms present in idli batter • Role of microbes in fermenting idli batter • Benefits of consuming idli * Microorganisms present in idli batter • Benefits of consuming idli * Microorganisms present in Glibatter • Bole of microbes in fermenting idli batter • Bole of microbes in fermenting idli batter • Bole of microbes in fermenting idli batter • Preparation of Jilebi batter and Jilebi • Microorganisms present in Jilebi batter • Role of microbes in fermenting Jilebi batter	STURCHARDS (STURCHARDS)
8	Mathemati	MAT-	Vedic Mathematics	
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	cs	137-		
		IKS		
		шо	reaching riours	_
			Unit 1: Arithmetical Computations 5 1.1 Vedic Sutras 1.2 Multiplication 1.3 Division by Nikhilam Method 1.4 Division by Paravartya Method	
			Unit 2: Factorization 6	
			2.1 Factorization of Quadratics 2.2 Factorization of Cubics 2.3 Highest Common Factor	
	Syllab	us	Unit 3: Equations 5	
	·		3.1 Simple Equations 3.2 Quadratic Equations 3.3 Cubic Equations 3.4 Bi-quadratic Equations	
			Unit 4: Roots 8	
			4.1 Square root 4.2 Cube roots of exact cubes 4.3 General Cube roots	
			Unit 5: Geometry 6	
			4.1 Pythagoras Theorem 4.2 Apollonius Theorem 4.3 Analytical Conics	
9	Electronics	ELE-	Evolution & Future Prospects of Electronics in India	
		137-	The second of th	
		IKS		
	Syllab	us	Topics and Learning Points	
			1. Introduction to Electronics Knowledge System:	
			Define traditional knowledge, nature and characteristics, scope and importance, kinds of	
			traditional knowledge. The need for protecting traditional knowledge, the value of traditional	
			knowledge in the global economy, Role of Government to harness traditional knowledge.	
			17	
			2. Science and Technology in India:	
			Milestones of India in Science and Technology, IKS in ancient India and in modern India,	
			History of Electronic industry development in India, Achievements of Indians in Science and	
			Technology in Ancient and medieval India, Nobel laureates of India in Science, Achievements of Indians in Science & Technology in the modern era.	
			3. Future Prospects:	
			Impact of New Technologies and Applications, social networking sites- Facebook, LinkedIn, Instagram, myspace, twitter, Online chat, video chatting, Internet telephony- voice, video,	
			blogs, ChatGPT, IoT, Artificial Intelligence.	
	 	GOG		
10	Computer	COS-	Evolution of Computer	JURCH
10	Computer Science	COS- 137- IKS	Evolution of Computer	BARAMARI S

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		UNIT1: Early computing devices and beginning years Lectures) - Early computing devices (Abacus, Pascal adding machine, Leibniz calculator, Difference Engine) - Early inventors (Charles Babbage, Ada Lovelace, George Boole, Dr. Herman Hollerith, AES's T. C. College (Autonomous), Baramati. CBCS Syllabus 2023 Pattern as per NEP 2020
	Syllabus	Department of Computer ScienceF.Y.B.Sc.(Comp.Sci.)Semester-I John Von Neumann, Howard Alken) The Turing Machine (mathematical model): Concept, Example First programmable computes — Colossus, ENIAC Solid State Transistors (1947) and emergence of second generation of computers High Level Programming Languages: COBOL, FORTRAN, LISP and their features Program structure in COBOL, FORTRAN and LISP Invention of Integrated Circuits by Kilby and Noyce
		UNIT 2: Middle years BASIC language Invention of ARPANET First ever communication on a mobile phone by Martin Cooper Development of TCP/IP (Vint Cert and Bob Kahn) and its features Launching of Apple-1(1976) and Apple-11(modern PC) (1977) VLSI Development of Pascal and its features Evolution of C language(1972) from B(1969), BCPL(1967), ALGOL 68(1968) and its features Development of Prolog language (1972) and its features Development of Prolog language (1972) and its features Applications of Prolog Development of SQL by IBM (1972) and its features Importance of SQL Emergence of UNIX OS Rise of the Operating Systems (Linux, Microsoft Windows, Solaris, Mac OS) Comparison among different OS Evolution of C++ from C with classes (C + Simula 67) Features and applications of C++ UNIT 3: Moving ahead towards future Development of Python, R, Java Features and applications of PHP, JavaScript, VBScript, ASP, JSP Comparison among PHP, JavaScript, VBScript, ASP, JSP Emergence of Cloud Computing Types of Cloud Artificial Intelligence: Machine Learning, Deep Learning Internet of Things (G-T), Image Processing Development of Dart, Kotlin
11	Environme nt Science 137-IKS	Environment, cultural values and society
	Syllabus	Topics and Learning Points Teaching Hours
		UNIT 1: Bhāratīva Civilization and Development of Bhartiya Knowledge System 10 Genesis of the land, Antiquity of civilization, On the Trail of the Lost River, Discovery of the Saraswatī River, the Saraswatī-Sindhu Civilization, Traditional Knowledge System, The Vedas, Main Schools of Philosophy, Ancient Education System, the Taksaśilā University, the Nālandā University, Alumni, Knowledge Export from Bhārata.
		UNIT 2: Unique Traditional Practices and Applied Traditional Knowledge 10
		Agriculture, animal husbandry, Forest, Sacred Groves, Sacred Water Bodies, Water Mills. Water and Soil Conservation and management Practices, Utilization Practices and Food Preservation Methods. Handicrafts, Wood Processing and Carving, -Fiber Extraction and Costumes. Role of tribal people in environmental conservation. Community participation in Environmental conservation- Role of communities, Individual-level initiatives to ensure sustainable development, case studies of environmental movements (Chipko Movement, Narmada Bachao Andolan). Role of NGOs and youth, Environmental education and awareness.
	BARAMATT PE	UNIT 3: Women and environment 10 Women response to environmental degradation, Women and environmental conservation, Prominent women environmentalist, Role of rural women in agricultural and social forestry

12	English	ENG- 137- IKS	Beginning of English Studies in India-I			
	Syllab		TOPICS/CONTENTS: UNIT 1: Tracing the history of English in India(06lectors). 1. Introduction 2. East India Company and Education	ıres)		
		UNIT 2: IWE and English Studies Now(08lectures) 1. Introduction 2. The Domain of English in India 3. Colonialism UNIT3: Poems(08lectures) 1. To the Pupils of the Hindu College (Henry Derozio) 1. To a Young Hindu Widow (Kasiprasad Ghose) 2. Our Casuarina Tree (Toru Dutt) 3. Song of Radha the Milkmaid (Sarojini Naidu) UNIT4: Prose(08lectures) 1. The Cow and the Barricades (Raja Rao) 2. The Homecoming (Tagore)				
13	Marathi	MAR -137- IKS	मानव्यहवद्या व लहलत कलाांचा अभ्यास			
			Topics and Learning Points			
	Syllabus		प्रटक पानव्यविद्या स्वरूप व संकल्पना मानव्यविद्या स्वरूप व संकल्पना मानव्यविद्या शाखांचा परिचय १. तत्त्वज्ञान २. नीतीशास्त ३. भाषाशास्त ४. सौंदर्यशास्त १. साहित्य (प्रकार, भाषा, माध्यम, सामाजिक जीवनाशी सबंध) २. चित्रकला (स्वरूप, वैशिष्ट्ये, भाषा, माध्यम, सामाजिक जीवनाशी सबंध) ३ लिलत कलांचा परिचय १. शिल्पकला परिचय २. वास्तुकला ३. लिलत कलां व्यवहाराचे प्रमुख घटक कलाकार, कलाकृती, आस्वादक	श्रेयांक	३०	
14	Hindi HIN - 137- IKs		Sant Kabir Sahityik Parichay			



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				पाठ्यक्रम		
				संत कबीर: साहित्यिक परिचय		
				प्रथम सत्र [SEMISTER – I]		
				PAPER CODE :HIN -137-IKS		
				इकाई -1 1. अक्तिकाल का सामान्य परिचय	10 तासिकाएं	
				2.कबीर का व्यक्तित्व कृतित्व	TO VIIIVIAN	
				3.कबीर का जीवन परिचय		
				इकाई -2. संत कबीर के दोहे -	10 तासिकाएं	
				1.गुरुदेव कौ अंग - 3,14,15		
				2.विरह कौ अंग <i>-</i> 4,6,22,45		
	Syllab	us		3. निंद्या कौ अंग- 3,4		
				इकाई-3. 1.कबीर के धार्मिक विचार		
				2.समाजसुधारक के रूप में कबीर	10 तासिकाएं	
				उ 3.कबीर का मानवतावादी दृष्टिकोण		
				संदर्भ ग्रंथ :		
				1.कबीर - हजारीप्रसाद द्विवेदी		
				2.कबीर संपा विजयेंद्र स्नातक		
				3.कबीर की विचारधारा - डॉ गोविंद त्रिगुणायत		
				 4.कबीर साहित्य की पंरंपरा - आ. परशुराम चतुर्वेदी 		
				5.कबीर चिंतन और सर्जन - संपा आनंदप्रकाश दीक्षित		
				6.कबीर एक विवेचन - डॉ सरनामसिंह शर्मा		
				7.कबीर साधना और साहित्य - डॉ प्रतापसिंह चौहान		
				8.कबीर एक अनुशीलन - डॉ रामकुमार वर्मा		
15	Geography	GEO-	Anc	ient Indian Geographical Thoughts		
10	Cography	137-		ioni maian coograpmoar moagins		
		IKS				
	Syllab	us		Topics and Learning Points		
				ropics and searing round		
				UNIT 1: Ancient Indian Geographers	Teaching Hours	
				1.1 Varahamihira	10	
				1.2 Brahmagupta 1.3 Bhaskaracharya		
				1.4 Aryabhatta		
				UNIT 2: Discoveries in mathematics and Astronomy	10	
				2.1 Universe and its origin		
				2.2 Eclipse		
				2.3 Earth		
				2.4 Latitude and Longitude		
				2.5 Cardinal Point UNIT 3: The impact of exploration and discoveries	10	
				3.1 Discovery of continents		
				3.2 Mountains and rivers		
				3.3 The Ganga		
L				3.4 The Tsangpo		
16	History	HIS-	Pop	ılar Indian Culture		
	1	137-	-			
		137				



	Syllab	us	Topics and Learning Points	
			Unit I Defining Popular Culture: (5 L)	
			Popular Culture as Folk Culture, Mass Culture- High Culture, People's culture;	
			Visual expressions: folk art, calendar art,photography, advertisements	
			Unit II Oral culture/ performances: (9 L)	
			folktales, folk theatre with social messages and nautanki; music-	
			folksongs and folkdances	
			Unit III The audio-visual medium: (9 L)	
			cinema, television and internet (a) Indian cinema: major themesand trends likefreedom struggle and nation building (b)Television: Case study of televised serials, Ramayana, Womenand Family	
			Unit IV Fairs, festivals and rituals, pilgrimage: (7 L)	
			disentangling mythologicalstories; patronage; religion as culture; Food Cultures:	
			Regionalcuisines	
17	Psychology	PSY-	Emergence of Indian Psychology	
1 /	rsychology	137 -	Emergence of mutan r sychology	
		IKS		
	Syllab			
	Syllab	us	Topics and Learning Points	
			Unit 1: Introduction to Indian Tax System 10 Lectures	
			1.1 Meaning of tax, Nature and Scope	
			1.2 Objectives of Taxation in India,	
			1.3 Need and Importance	
			1.4 Characteristics of taxation in India	
			Unit 2: Structure to Indian Tax System 12 Lectures	
			2.1 Canons of Taxation	
			2.2 Constitutional background of taxation and distribution of revenue between Central and the States.	
			2.3 Introduction to Articles 245, 246 and 264 to 290A.	
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			AES's T. C. College (Autonomous), Baramati. CBCS Syllabus 2023 Pattern as per NEP 2020	
			Department of Commerce F.Y. B.Com. Sem-I	
			2.4 Schedule Seventh: List I, II and III.	
			2.5 Administrative set up of Indian Tax System & Procedure.	
			Unit 3: Direct and Indirect taxes 08 Lectures	
			3.1 Meaning and definition of Direct and Indirect taxes	
			3.2 Advantages and disadvantages of direct and indirect taxes	
			3.3 Distinction between Direct and Indirect taxes.	
10	Faces	ECO	3.4 Direct and indirect taxes of Central Government & State Government.	
18	Economics	ECO-	Ancient Indian Economic Thoughts	
		137-		
		IKS		



	Syllab	us	T	
			TOPICS/CONTENTS UNIT 1: INTRODUCTION TO ANCIENT INDIAN ECONOMIC SYSTEM 1.1 Definition and scope of ancient Indian economic thought 1.2 Importance of studying ancient Indian economic systems 1.3 Overview of ancient Indian civilization and its economic practices	
			UNIT 2: MAURYAN ECONOMIC SYSTEM 2.1 Economic policies and administration under Emperor Ashoka 2.2 The role of the state in economic affairs 2.3 Trade, agriculture, and taxation in Mauryan India	
			UNIT 3: ECONOMIC THOUGHT IN THE ARTHASHASTRA 3.1 Kautilya's Arthashastra as a treatise on statecraft and economics 3.2 Economic principles and policies advocated by Kautilya 3.2 Role of the state in economic development and welfare	
19	Politics Science	POL- 137- IKS	Historical Background of Indian Political Thought	
	Syllab	us	Topics and Learning Points	
			UNIT 1: Ancient Indian Political ThoughtTeaching Hours	
			1.1 Political Thought: concept and nature 10	
			1.2 State, People and Society	
			1.3 Concept of Power	
			UNIT 2: Indian Legacy of Political Thought 10	
			2.1 Shantiparv in Mahabharat	
			2.2 Kautilya 2.3 Rajniti of Chhatrapati Shivaji Maharaj	
			UNIT 3: Western Impact on Indian Political Thought 10	
			3.1 Political Background of British Colonialism	
			3.2 Bentham , J.S.Mill ,Spencer	
			3.3 Karl Marx ,Lenin ,Mao and Laski	
20	D.C.	DEE		
20	Defense and	DEF- 137-	Peace and Harmony Studies Part-I	
	Strategic	IKS		
	Studies	IIXS		
	Syllab	us	TOWARD MICHAEL TO A STATE OF THE STATE OF TH	
			TOPICS/CONTENTS: UNIT1:	(08)
			 1.1 Maratha Military System under Shri. Chhatrapati Shivaji 1.2 Third Battle of Panipat 1761 A.D. 1.3 Military System and pattern of war under Haider Ali and Tipu Sultan 	(00)
			1.4 Third Mysore War 1790 A.D. UNIT2:	(08)
			2.1 Sikh Military System under Dal Khalsa and Ranjeet Singh 2.2 Battle of Sobraon 1846 A.D.	
			2.3 Development of Presidency Army under East India Company,	
			2.4 Anglo –Maratha War with special reference to Battle of Assaye 1803 A.D. UNIT3:	(06)
			3.1 Cholas empire	5 5
			3.2 Vijaynagar empire UNIT4:	(08)
			3.1 Indian War of Independence 1857 A.D. 3.2 Amalgamation of Presidency Armies	
			3.3 Reforms of Kitchener.	
	G . 1	900	3.4 Reforms of Cornwallis.	
21	Sociology	SOC -	Perspectives on Indian Society Thoughts	

	<u> </u>	137-				
		IKS				
					Topics and Learning F	Points
					Topics and Learning r	omts
					Teac	hing Hours
				ι	UNIT1: The Indological Perspective 10	
	Syllab	us			G.S. Ghurye - Indology and Theory of Caste	
				ι	JNIT2: The Structural Functional Perspective	10
					M. N. Srinivas - Dominant Caste and Sanskritization	1
				ι	JNIT3: The Non Brahminical Perspective 1	0
					Dr. B.R. Ambedkar - Theory of Origin of Caste	
22	Library Science	LIS- 137-	Foundar	tions of Lib	rary & Information Science	
	~	IKS				
	Syllab	us		Topics :		
					Total No. of Credits = 02	
				UNIT	1. Development of Libraries: An Overview 1.1 History of library movement in India. 1.2 Development of Libraries in India With Special Reference to Mai 1.3 Role of Libraries in national development	(10L) harashtra
				UNIT		(08L)
				UNIT	2.1 Normative Principles of library and information science 2.2 The five laws library science and their implications Types of Libraries	(12L)
					National libraries: Definition, Objectives, functions, history & brie Outline of National Library of India.	352 8
					3.2 Public Libraries: Definition, Objectives, Development and Functional State of St	
					Objectives, Functions 3.4 Special Libraries: definition, objectives and Brief outline of the	3000000000
					Development of Research Libraries In India.	
23	Philosophy	PHI-	Ancient	t Indian Phi	losophical Knowledge	
	& Logic	137- IKS				
	Syllab			Semeste	r- I PHI-137-IKS ANCIENT INDIAN PHILOSOPHICAL R	KNOWLEDGE
				Unit No.	Topics & Learning Points	No. of Hours
				1	Spirituality and Religions. A. Sarva-dharma-sambhav. B. Religions, Happiness and Good life	10
	TURCA			2	Introduction to Ancient Indian Philosophy. A. Vedanta Philosophy and Essence of the Bhagavad Gita. B. Buddhist Philosophy: Panchsheel, Four Noble Truths	10
	GARAMAR)			3	Ancient Indian Sciences: A. Ayurved, Vastusastra and Vedic Mathematics B. Contribution of Indian knowledge to humanity	10
	BARAMAT))		3	Ancient Indian Sciences: A. Ayurved, Vastusastra and Vedic Mathematics	

24	Journalism and Mass Communic ation	JMC- 137- IKS	Indian folk Media	
			Topics and Learning Points	
			UNIT 1: Evolution of Ancient Indian Folk Arts	Teaching Hours
			 1.1 Introduction to Indian Folk Arts 1.2 Introduction to Indian Folk Media 1.3 Geographical distributions of Folk Arts 1.4 Ritualistic significance in Indian society. 	10
			Department of Media and Communication Studies, Tuljaram Chaturchand College	e, Baramati Page 20
	Syllab	us	UNIT 2: Ancient Indian Folk Art Forms Part 1	05
	Syllabus		2.1 Puppetry Traditions 2.2 Wall painting Traditions 2.3 Old Indian Sculptures 2.4 Folklores	03
			UNIT 3: Ancient Indian Folk Art Forms Part 2 3.1 Folk street theatres 3.2 Folk songs and Folk tales 3.3 Folk dance forms 3.4 Folk Instruments	05
			UNIT 4: The Relevance of Folk Arts in current Media 4.1 Integrated use of Folk Media and Mass Media 4.2 Song and Drama Division 4.3 Role of traditional folk media in communicating modern themes 4.4 Preservation of folk media	10
			 Parmer, Shyam. Traditional Folk Media in India. New Delhi: Ge Sitaram, KS. Culture and Communication, Associate Printers, M Ranganath, H.K. Folk Media and Communication, Chintam Prak Vijaya, N. The Role of Traditional Folk Media in Rural Areas, C House, Delhi. 	lysore. kashana, Mysore.
25	Food Technolog y	FTR- 137- IKS	History of Indian Foods	



	Syllab	110	- Student will reall about the Harappa civilization.
	Syllao	us	Unit-1 Climate crop and prehistory of food in India: The physical environment, The climate, development of agriculture- pulses, grains, millets, fruits & vegetables, spices, prehistory- The Harappa civilization Unit-2 Introduction to food: Define- Food, philosophy of Indian food, the pre-ancient era, the ancient era, the agricultural revolution, classification of food Unit-3 History of Food Processing in India: O7 Periods Introduction, History, Scope of Food Preservation of India Unit-4 Indian Cuisine and Cooking Techniques: O9 Periods An overview of Indian cuisine, the meal, cooking techniques and equipments, Measurements in food
26	Dairy Technolog	DRT - 137- IKS	Milk and ancient Indian therapy
	Syllab	1	Topics and Learning Points
			UNIT 1: Bhāratīya Civilization and Development of Bhartiya Knowledge System Genesis of the land, Antiquity of civilization, On the Trail of the Lost River, Discovery of the Saraswatī River,the Saraswatī-Sindhu Civilization, Traditional Knowledge System, The Vedas, Main Schools of Philosophy, Ancient Education System,the Takṣaśilā University, the Nālandā University, Alumni, Knowledge Export from Bhārata. Unit 2: Introduction to Ancient Indian Dairy Technology Overview of ancient Indian dairy practices and their relevance in today. Vedic References of using Milk. Various Milk Products used in Yadnya. Historical evolution and significance of Milk & Milk Products in ancient India. References from Ramayana, Mahabharat, Kautiliya Arthasastra, Ayurveda, Manasollas, Agnipurana etc. Role of Dairy officer in Kautiliya Arthashastra.
			Unit 3: Dairy Animal Management. Breeds of dairy animals in ancient India and their characteristics. Types & Characteristics of Buffaloes. Types & Characteristics of Cows. Role of Dairy officer in Kautiliya Arthashastra. Use of Milk & Milk Products in Ayurveda. Without Therapeutic Processing. As an adjunct.
27	Retail	RTM-	Evolution of Retail
	Manageme	137-	
	nt	IKS:	



	Units	Title & Content	No. of Lecture
	Unit 1 AES's T. C.	Retail 1.0 (Upto 1999) 1.1 Traditional Brick and Mortar Retail: The early days of retail were characterized by physical stores where customers could visit to make purchases. 1.2 These stores had limited product assortments and relied on face to face interactions College (Autonomous), Baramati. CBCS Syllabus 2023 Pattern as per NEP	10
Syllabus	Department	of B.Voc Retail Management Semester-I between customers and sales people. 1.3 Dominated By Neighborhood Kiranas 1.4 Unorganized Sector	
	Unit 2	Retail 2.0 (2000-06) 2.1 Rise of Department Stores and Chain Retailers 2.2 Prominence Of Modern Retail 2.3 Retail Operation 2.4 Retail Management Techniques 2.5 Organized Sector	12
	Unit 3	Retail 3.0 (2007-2020) 3.1 Online-led Retail Growth With The Promise Of Technology-Led Integration of India's Largely Fragmented Retail Ecosystem.	08



	Syllabus	CONTENT OF SYLLABUS			
		UNIT	TOPIC	No. of	
				Lectures	
		1	History and evolution of E-Commerce:	7	
			The Timeline Of The History Of eCommerce & Its Evolution, Milestones		
			of e-commerce, e commerce tribute media		
		2	How commerce is shifting to E-Commerce?	8	
			Future of E-Commerce, Evolution of e-commerce and its growth		
		3	History and evolution of Digital Marketing :	7	
			Future of E-Commerce, Evolution of e-commerce and its growth		
		4	Future of online shopping:	8	
			M-Commerce & V-Commerce, The Future of Online Shopping: Predictions and Trends;		
				30	
20	DD 4 127 IVC	Indian Ma	and a second course and their Contributions		
29	BBA-137-IKS	indian Ma	nagement Gurus and their Contributions.		
			Unit No.1: Ratan Tata – Great Indian Industrialist 6		
			1.1. History		
			1.2. Contribution,		
		-			
	Syllabus		1.3. Case study.		
			Unit No 2 : Shiv Khera : Great motivational speaker 6		
			2.1 History 2.2 Contribution,		
			2.3 Case study.		
			Unit No 3 : N.R.Nrayana Murthy: Indian Billionaire Businessman 6		
			3.1 History		
			3.2 Contribution,		
			3.3 Case study. Unit No 4 : C.K.Prahalad: Indian American Entrepreneur and Author 6		
			4.1 History		
			4.2 Contribution,		
			4.3 Case study.		
			Unit No 5. Ashwin Srdana: Youngest Entrepreneur and Business Tycoon in India 6 5.1 History		
			5.1 Fistory 5.2 Contribution		
			5.3 Case Study.		
			- 44		
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30	BCA-137-IKS	Indian Innovations in Computer and Technology
	Syllabus	UNIT 1: Bhāratīya Civilization and Development of Bhartīya Knowledge System 1.1 Genesis of the land, Antiquity of civilization, On the Irail of the Lost River 1.2 Discovery of the Saraswaff River, the Saraswaff-Sindhu Civilization 1.3 Traditional Knowledge System 1.4 The Vedas, Main Schools of Philosophy(6+3) 1.5 Ancient Education System 1.6 the Takṣaṣilā University 1.7 the Nālandā University 1.8 Alumni 1.9 Knowledge Export from Bhārata. UNIT 2: Ancient Bhartiya Contribution towards Science & Mathematics 2.1 Concept of Matter 2.2 Life and Universe, Gravity 2.3 Sage Agastyst Swodel of Battery 2.4 Velocity of Light 2.5 Vimāna: Aeronautics 2.6 Vedic Cosmology and Modern Concepts, hāratīyaKāla-gaŋanā, 2.7 Kerala School for Mathematics and 2.8 Astronomy, History and Culture of Astronomy Sun, Earth, Moon, and Eclipses 2.9 Earth is Spherical and Rotation of Earth, 2.10 Archaeostronomy 2.11 Concepts of Zero and Pi, Number System, Pythagoras Theorem, and Vedic Mathematics. UNIT3: Ancient Bhartiya Engineering, Technology & Ostarieteure 3.1 Pre-Harappan and Sindhu Valley 3.2 Civilization, Laboratory and Apparatus, Juices, Dyes, Paints and Cements, Glass and Pottery, Metallurgy, Metallurgy, 3.3 Engineering Science and Technology in the
		Department of BBA (Computer Application) Vedic Age and Post-Vedic Records, 3.4 Iron Pillar of Delhi, Rakhigarhi, Mehrgarh, 3.5 Sindhu Valley Civilization, 3.6 Marine Technology, and Bet-Dwārkā. UNIT4: Evolution in Computer and Indian Contribution in Computer and Technology 4.1 Early Computing Devices, 4.2 generations of computer, 4.3 evolutions of programming Languages 4.4 Indian contribution in computer and technology: 4.4.1 Pentium chip by Vinod Dham, 4.4.2 Hotmail by Sabeer Bhatia, 4.4.3 Universal Serial Bus (USB) by Ajay Bhatt, 4.4.4 Fibre Optics by Dr. Narinder Singh Kapany, 4.4.5 Major information technology hubs in india, 4.6 Major data centre hubs in india,



