

बाबासाहेब भीमराव अम्बेडकर विश्वविद्यालय

(केन्द्रीय विश्वविद्यालय)

विद्या विहार, रायबरेली रोड, लखनऊ - 226025

BABASAHEB BHIMRAO AMBEDKAR UNIVERSITY

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Date: 18/07/2024

NOTICE

All the students of the University are informed that, Department of Sanskrit and Vedic Studies under School of Sanskrit & Indic Studies is offering the following optional paper under the Open Elective Syllabus in the First Semester.

No. of Seats	Paper Code	Paper Title	Total Marks = 100			Credit
			Assignment & Presentation	Sessional	End Semester	
30	MSV104	Introduction to Indian Knowledge System	10	20	70	04

Application must be forwarded by the Head of the concerned Department; otherwise the same will not be accepted. The students may submit their choice for CBCS paper by 31st, July 2024 in offline mode.



Head
Department of Sanskrit
and Vedic Studies

MSV-104- Introduction to Indian Knowledge System**Semester- I****Course Type- CBCS****Credits-4****Specific (if)**

Module-I	Classroom Activities/Lectures <ul style="list-style-type: none">○ Outline of IKS○ Caturdaśa vidyāsthāna○ 18 purānāsa○ Vedāng-s, their names, objectives, scientific nature and some details.○ Phonetics and grammar, scientific nature of pronunciation of saṁskṛta and other Indian languages Problem Solving/Mentoring/Tutorials/Field works: Discussion, Answer writing Skill and understanding the concept
Module-II	Classroom Activities/Lectures <ul style="list-style-type: none">○ Indian preaching on dharma, artha and Society, bhagavadgītā, arthaśāstra, gurukula systems, nālandā, takṣaśilā, vikramaśilā etc. Problem Solving/Mentoring/Tutorials/Field works: Discussion, Answer writing Skill and understanding the concept
Module-III	Classroom Activities/Lectures <ul style="list-style-type: none">○ Language and its Relation to Indian languages. Impact of literature on○ Indian languages for literary compositions. Literary masterpieces of Indian languages and○ Their translations into World languages and names of their translators.○ Indian Philosophical Systems Problem Solving/Mentoring/Tutorials/Field works: Discussion, Answer writing Skill and understanding the concept
Module-IV	Classroom Activities/Lectures General outline of following discipline <ul style="list-style-type: none">○ Astronomy○ Health and Well-being○ Architecture○ Mathematics○ Chemistry and Metallurgy○ Life sciences, agriculture and ecology○ Kala○ Ancient India and World Problem Solving/Mentoring/Tutorials/Field works: Discussion, Answer writing Skill and understanding the concept Community Engagement : Visiting Library/Other institution/Social Interaction Indian Specific Knowledge : Analyze Topics in the view of IKS Student Effort: Student will learn and understand the concept & respective theories related to subject.
Reference Books	<ul style="list-style-type: none">• Āryabhaṭṭya of Āryabhaṭa K.S. Shukla & K.V. Sarma• Bhāskarācārya's Bījagaṇita and its English Translation S.K. Abhyankar• The Bṛhat Saṁhitā of Varāha Mihira N.C. Iyer• Varāhamihira's Bṛhat Saṁhitā 2 vols M. Ramakrishna Bhat• Gaṇita-sāra-sangraha of Mahāvīracārya M. Rangacharya• The Goladīpika of Parameśvara K.V. Sarma• Grahalāghavam of Gaṇeśa Daivajña S Balachandra Rao & S.K. Uma• Karaṇakutūhalam of Bhāskarācārya II S. Balachandra Rao & S.K. Uma• Karaṇaratna of Devācārya Kripa Shankar Shukla• A Critical Study of the Laghumānasa of Mañjula Kripa Shankar Shukla• Bhāskarācārya's Līlavatī H.T. Colebrooke• Nārada Śilpaśāsta: Sanskrit Text on Architectural Civil Engineering R.N. Iyengar, K.S. Kannan, S.Y. Wakankar• Pañcasiddhāntikā of Varāhamihira T.S. Kuppanna Sastry & K.V. Sarma• The Pañcaviṁśatikā in its Two Recensions: A Study in the Reformation of a Medieval Sanskrit Mathematical Textbook Takao Hayashi• The Rasa-ratna-samuccya of Māṇikyadeva Sūri J.C. Sikdar• Rasārṇavakalpa Mina Roy & B.V. Subbarayappa

	<ul style="list-style-type: none"> • A Bibliography of Sanskrit Works on Astronomy and Mathematics part I S.N. Sen • Siddhānta Śīromani of Bhāskarācārya D. Arkasomayaji • The Sūrya Siddhānta: A Textbook of Hindu Astronomy Ebenezer Burgess & Phanindralal Gangooly • Tantrasaṅgraha of Nīlakaṇṭha Somayājī K. Ramasubramanian & M.S. Sriram • Indian Mathematics and Astronomy: Some Landmarks S. Balachandra Rao • Algebra with Arithmetic and Mensuration: From the Sanscrit of Brahmeḡupta and Bhāscara Henry Thomas Colebrooke • Ancient Hindu Geometry: The Science of the Āśulba Bibhutibhushan Datta • History of Hindu Mathematics Bibhutibhushan Datta & Avadhesh Narayan Singh • The Mathematics of India: Concepts, Methods, Connections P.P. Divakaran • Contributions to the History of Indian Mathematics Gerard G. Emch, R. Sridharan, M.D. Srinivas • A Modern Introduction on Ancient Indian Mathematics T.S. Bhanu Murthy • The Golden Age of Indian Mathematics S. Parameswaran
Course Duration	Module I : 04 Weeks (01 to 04) Module II : 04 Weeks (05 to 08) Module III : 04 Weeks (09 to 12) Module IV : 04 Weeks (13 to 16)