Structure & Syllabi

of

Diploma Course in Vedic Mathematics

One Year Course

(Two Semester)

Department of Vedic Studies

Dr. Harisingh Gour Vishwavidyalaya Sagar

(M.P.)

Passed by Board of Studies Dated 11/06/24

One Year Diploma in Vedic Mathematics

Department of Vedic Studies proposes a one year Diploma in Vedic Mathematics under the New Education Policy (NEP-2020).

1. Course Objectives:-

1. To explore the hidden knowledge in Vedas and Indian ancient knowledge& culture.
2. To perform a critical and comparative analysis about mathematics of mathematics and current mathematics system
3. To prepare students with in-depth knowledge of old Indian cultural traditions.
4. To develop manpower who can protect, and preserve and carry forward the rich Indian ancient knowledge relating to Vedic mathematics and their applications.

2. Learning outcomes:-

After completing this course students shall be capable in the following:

1. Aware about ancient Indian mathematics.
2. Aware aboutcomputational power of sutras
3. Know about astrological calculation
4. Acquaint with Vedic mathematics with applications.

3. Course Duration

It will be of one years (2-semester program) to be functional as per CBCS and NEP-2020 regulations as laid down in the university ordinance.

4. Intake Capacity

There shall be a maximum of 20 students' intake for an academic session.

5. Reservation Policy

The maximum intake shall be divided into UR, EWS, OBC, SC, ST and PWD categories as per university/ government of India norms applicable to other graduate academic programs.

6. Eligibility

Passed 10+2 with any discipline.

7. Admission Procedure

1. There shall be an advertisement of this course in newspapers and the same shall be displayed on university website.
2. The other criterion of admission shall be same as adopted by the university for other UG courses under NEP-2020.

8. Award of degree

On successful completion	Semester	Name
One year	Two	Diploma

11/6/24

11/06/2024

Passed by Board of Studies Dated. 11/06/24

The course will run under the university ordinance applicable for other bachelor degrees in Arts and Humanities modified under NEP-2020.

Fee Structure (For first semester)

S. No.	Heads	Fee
1.	Tuition fee	900
2.	Library fee	250
3.	Sports fee	100
4.	Student Activity fee	100
5.	Medical fee	125
6.	Insurance premium	30
7.	Registration fee	150
8.	IT fee	550
	Total	2205
9.	Caution money	250
	Total fee for first semester	2455/- INR
	Total fee for second semester onwards	2205/- INR

No practical fee shall be chargeable. Semester fee should be paid at the beginning of the semester.

Course Scheme

11/6/24 11/06/2024

Passed by Board of Studies Dated 11/06/24

Semester I

Course Code	Course Title	L	T	P	C	Sessional		ESE	Total
						ME	IA		
DVM-DSM-111	Contribution of Ancient Indian Mathematicians	4	0	-	4	20	20	60	100
DVM-DSM-112	Sixteen Sutras/ Corollaries of Vedic Mathematics	4	0	-	4	20	20	60	100
DVM-MDM-111	Computational Power of Vedic Sutras	4	2	-	6	20	20	60	100
DVM-AEC-111	Modern Approach to Ancient Mathematics	2	0	-	2	20	20	60	100
DVM-DSM-113	Introduction to Vedic Literature I	4	0	-	4	20	20	60	100

ME – Mid Exam, IA- Internal Assessment, ESE- End Sem. Exam

Semester II

Course Code	Course Title	L	T	P	C	Sessional		ESE	Total
						ME	IA		
DVM-DSM-211	Ramanujan and His Notebook	4	0	-	4	20	20	60	100
DVM-DSM-212	Applications of Vedic Mathematics in Computer Science	4	0	-	4	20	20	60	100
DVM-MDM-211	Indian Approach to Astrological Calculations	4	2	-	6	20	20	60	100
DVM-SEC-211	Project and Project Presentation	2	0	-	2	20	20	60	100
DVM-DSM-213	Introduction to Vedic Literature II	4	0	-	4	20	20	60	100

ME – Mid Exam, IA- Internal Assessment, ESE- End Sem. Exam

Passed by Board of Studies Dated 11/06/24

COURSE WISE DETAILED SYLLABUS

Semester I

Course Code	Course Title	L	T	P		C	Sessional		ESE	Total
							ME	IA		
DVM-DSM-111	Contribution of Ancient Indian Mathematicians	4	0	-		4	20	20	60	100

Course Objectives:

The course is designed as an introduction. It is intended to familiarize the student to ancient Indian Mathematicians and stimulate an interest for their contributions in the field of Mathematics.

Course Outcomes:

UO1: To understand the contributions of Aryabhata, Brahmagupta, and Bhaskaracharyain mathematics.

UO2: Explore the mathematical achievements of Sridharacharya and NarayanaPandita.

UO3: Examine the mathematical insights of Bharati Krishna Tirtha and NeelkanthSomayya.

UO4: Analyze the mathematical advancements of Bhaskaracharya II, Mahaveeracharya, and Varahamihir.

UO5: Investigate the mathematical contributions of Parmesvaran, Madhavacharya, and Baudhayana.

UNIT I-Aryabhata, Brahmagupta,Bhaskaracharya I
UNIT-II Sridharacharya, NarayanaPandita,
UNIT-III Bharati Krishna Tirtha,NeelkanthSomayya,
UNIT-IV Bhaskaracharya II, Mahaveeracharya, Varahamihir
UNIT-V Parmeshvaram,Baudhayana,Madhavacharya

Suggested Readings:

1. V.G. Heroor: The History mathematics and Mathematicians of India.
2. Bharatiya Mathematicians, Sharda Sanskrit Sansthan, Varanasi.

Dshukla

Shivamkumar 11/06/2024

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Semester I

Course Code	Course Title	L	T	P	C	Sessional		ESE	Total
						ME	IA		
DVM-DSM-112	Sixteen Sutras/ Corollaries of Vedic Mathematics	4	0	-	4	20	20	60	100

Course Code	**Course Title**	**L**	**T**	**P**	**C**	**Sessional**		**ESE**	**Total**
						ME	IA		

Course Objectives:

The main objective of this course is to provide the comprehensive understanding of sixteen sutras/corollaries of Vedic Mathematics.

Learning Outcomes:

UO1: Develop a deep understanding of the sutras EkadhikinaPurvena, NikhilamNavatashcaramamDashatah, Urdhva-Tiryagbyham, ParaavartyaYojayet, and ShunyamSaamyasamuccaye to perform mental calculations with speed and accuracy.

UO2: Understand (Anurupye) Shunyamanyat, Sankalana-vyavakalanabhyam, putranapuranabyham, Chalana-Kalanabyham.

UO3: Explore Vyashtisamanstih, ShesanyankenaCharamena, Sopaantyadvayamantyam, EkanyunenaPurvena, Gunakasamuchyah.

UO4: Explore the corollaries Anurupyena, SisyateSesasamjnah, Adyamadyenantyamantyena, KevalaihSaptakamGunyat, Vestanam, YavadunamTavadunam, YavadunamTavadunikrityaVargaYojayet, Antyayordashake'pi.

UO5: Apply the corollaries Antyayoreva, Samuccayagunitah, Lopanasthapanaphyam, Vilokanam, GunitasamuccayahSamuccayagunitah, Dhvajanka, Dwandwa Yoga, AdyamAntyamMadhyam to solve complex arithmetic problems and develop a deeper understanding of number patterns and relationships.

UNIT-I EkadhikinaPurvena, NikhilamNavatashcaramamDashatah, Urdhva-Tiryagbyham, ParaavartyaYojayet, ShunyamSaamyasamuccaye
UNIT II (Anurupye) Shunyamanyat, Sankalana-vyavakalanabhyam, putranapuranabyham, Chalana-Kalanabyham, Yavadunam
UNIT-III Vyashtisamanstih, ShesanyankenaCharamena, Sopaantyadvayamantyam, EkanyunenaPurvena,Gunitsamuccayah,Gunakasamuchyah.
UNIT-IV Corollary: Anurupyena, SisyateSesasamjnah, Adyamadyenantyamantyena, KevalaihSaptakamGunyat, Vestanam, YavadunamTavadunam, YavadunamTavadunikrityaVargaYojayet, Antyayordashake'pi
UNIT-V Corollary: Antyayoreva, Samuccayagunitah, Lopanasthapanaphyam, Vilokanam, GunitasamuccayahSamuccayagunitah,Dhvajanka, Dwandwa Yoga, AdyamAntyamMadhyam

Suggested Readings:

1. Bharatiya Krishna Teerth : Vedic Mathematics (MotilalBanarasidas New Delhi, 2001).
2. V.G. Heroor : The History mathematics and Mathematicians of India.

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Semester I

DVM-MDM-111	Computational Power of Vedic Sutras	4	2	-	6	20	20	60	100

Course Objectives:

The main objective of this course is to make students appreciate the amazing computational power of Vedic Sutras and help them to develop skill for doing faster and accurate calculations.

Learning Outcomes:

UO1: Understand and apply vinculum, multiplication methods, division algorithms, and operations involving indices and roots.

UO2: Apply divisibility rules, calculate LCM and HCF, work with recurring decimals, and learn numerical coding in Devnagari script.

UO3: Explore algebraic concepts such as multiplication and division of quadratic and cubic expressions, expansion, factorization, partial fractions, and solving equations.

UO4: Gain an understanding of geometry, including Baudhayana Triads, their applications in trigonometry and coordinate geometry, and basic operations with polar coordinates, complex numbers, and vector products.

UO5: Introduction to calculus, focusing on differentiation and integration.

UNIT-I **Vinculum:** Introduction, Conversion, Application, Addition and Subtraction, Beejank, **Multiplication: Introduction** -Vertically and Crosswise, Base number/sub base number, Sum and difference of Products **Division:**Introduction -Nikhilam, ParavartyaYojayet,Flag Digit (Vertically andCrosswise), Mixed Operations **Indices**: Introduction -MeruPrastar, Square, Cube, Fourth and Fifth Power, Mixed Operations **Roots:** Introduction -up to Fifth Root (Vilokanam), Square root and Cube root, Mixed Operations
UNIT-II **Divisibility:** Introduction -Osculator (vestanam) **LCM/HCF:** Introduction -different methods **Recurring Decimals:** Introduction -Denominator ending with 1,3,7,9 **Numerical Code (Devnagari script):** Introduction --Word, Consonant, Letter
UNIT-III **Algebra:** Introduction **Multiplication (Quadratic and cubic expressions of 1 or 2 variables):** Introduction - Vertically and Crosswise, Sum and difference of Products. **Division algorithm and application (Expressions of 1 variable and divisor of degree upto 3):**Introduction -ParavartyaYojayet, Mixed Operations

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Expansion: Introduction -MeruPrastar-upto fifth Power, Mixed Operations Factorization (Cubic expression), LCM/HCF, Partial Fractions, Anurupyesunyamanyat (3 elementary methods) Solution of Equations, (Quadratic equations /simultaneous equations of 2 or 3 variables)
UNIT-IV **Geometry :** Introduction **Concept of Baudhayana Triads (BT),** Application of BT -Trigonometry, Co-ordinate Geometry, (2-D, different cases of Line only), Complex Numbers, (Multiplication, Division and square-root)
UNIT-V **Calculus Introduction** -Differentiation, Integration

This course ensures that the students learn and master all the Vedic Sutras and use them for performing faster and accurate calculations.

Suggested Readings:

1. Bharatiya Krishna Teerth: Vedic Mathematics (MotilalBanarasidas New Delhi, 2001).
2. V.G. Heroor: The History mathematics and Mathematicians of India.
3. V.G. Unkalkar: Magical world of Mathematics, (Vandana Publishers Bangalore, 2008).
4. Dr. Vyawahare-Chouthaiwale- Borgaonkar: Introduction to Vedic Mathematics.

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Semester I

Course Code	Course Title	L	T	P	C	Sessional		ESE	Total
						ME	IA		
DVM-AEC-111	Modern Approach to Ancient Mathematics	2	0	-	2	20	20	60	100

Course Objectives:

This course is an attempt to introduce the students about the importance and implementation of Ancient Mathematics in Modern Mathematics

Learning Outcomes:

UO1: Apply Sri Bharthi Krishna Thirtha's Vedic Mathematics techniques to solve problems related to divisibility, recurring decimals, squares, square roots, cubes, and cube roots.

UO2: Understand and apply the lemma of Brahmagupta and the Chakravala method of Bhaskara for solving equations.

UO3: Explore the geometry concepts found in Sulba Sutras, including properties of triangles, cyclic quadrilaterals, and circles.

UO4: Gain a comprehensive understanding of number theory topics, such as the decimal place value system, divisibility, greatest common divisor (G.C.D.), and least common multiple (L.C.M.).

UO5: Learn and apply concepts related to simple continued fractions and the Euler φ (phi) function.

UNIT-I Topics of Sri Bharthi Krishna Thirtha's Vedic Mathematics: Some questions of Divisibility, Recurring Decimal, Square, Square Root, Cube and Cube Root
UNIT-II The Brahmagupta- Bhaskara Equation: Lemma of Brahmagupta,Chakravala Method of Bhaskara
UNIT-III Selected Topics in Geometry: Geometry in Sulba Sutras, The Triangle, The Cyclic Quadrilateral, and the Circle.
UNIT-IV Number Theory: The decimal place value system, Divisibility, G.C.D. and L.C.M.,
UNIT-V Simple Continued Fractions, The Eular φ Function

Suggested Readings:

1. T.S. Bhanu Murthy: A Modern Introduction to Ancient Indian Mathematics, New Age International Publisher.
2. David M. Burton: The History of Mathematics AN INTRODUCTION, Seventh edition.

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Semester I

Course Code	Course Title	L	T	P	C	Sessional		ESE	Total
						ME	IA		
DVM-DSM-113	Introduction to Vedic literature I	4	0	-	4	20	20	60	100

Course Objectives:

The objective of this paper is to provide a concise understanding of the Vedas and Vedangas, covering their introduction, synopsis of the four Vedas, sub-classification of Vedas, exploring the messages within the Vedas, and introducing the Vedangas. The paper aims to familiarize readers with the significance, content, and interconnectedness of these ancient Hindu scriptures, facilitating a deeper appreciation of their philosophical and cultural aspects.

Learning Outcomes:

UO1: Develop a basic understanding of the Vedas and their significance in Hindu religious and philosophical traditions.

UO2: Gain a concise overview of the four Vedas - Rigveda, Samaveda, Yajurveda, and Atharvaveda - understanding their content and themes.

UO3: Explore the sub-classifications of the Vedas, such as Brahmanas, Aranyakas, and Upanishads, and understand their roles within Vedic literature.

UO4: Analyze the philosophical and spiritual messages embedded within the Vedas, exploring their symbolic language and profound insights.

UO5: Familiarize yourself with the Vedangas, the six auxiliary disciplines associated with the study and interpretation of the Vedas.

UNIT-I Introduction to Vedas
UNIT-IIA synopsis of the four Vedas
UNIT-III Sub-classification of Vedas
UNIT-IV Message in Vedas
UNIT-V Introduction to Vedangas

By the end of this paper, learners will have acquired a comprehensive understanding of the Vedas and Vedangas, their historical context, textual structure, philosophical insights, and their enduring significance in Hinduism and beyond.

Suggested Readings:

Mahadevan, B., BhatVinayakRajat, NagendraPavana R.N. (2022), "Introduction to Indian Knowledge System: Concepts and Applications", PHI Learning Private Ltd. Delhi.

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Semester II

Course Code	Course Title	L	T	P	C	Sessional		ESE	Total
						ME	IA		
DVM-DSM-211	Ramanujan and His Notebook	4	0	-	4	20	20	60	100

Course Objectives:
This course is intended to introduce students to the great Indian Mathematician Ramanujan and to familiarize them with the major work done by him.

Learning Outcomes:

UO1: Learn to apply techniques for magic squares and explore sums related to the harmonic series or the inverse tangent function.
UO2: Analyze combinatorial patterns, study series inversions, and understand the behavior of iterates of the exponential function.
UO3: Understand and utilize Eulerian polynomials and numbers, Bernoulli numbers, and the properties of the Riemann zeta-function.
UO4: Study Ramanujan's theory of divergent series, explore sums of powers, and analyze the significance of Bernoulli numbers.
UO5: Investigate the properties of the gamma function and its analogues, explore identities, transformations, and evaluations of infinite series.

UNIT-I Magic Squares, Sums Related to the Harmonic Series or the Inverse Tangent Function
UNIT-II Combinatorial Analysis and Series Inversions, Iterates of the Exponential Function and an Ingenious Formal Technique
UNIT-III Eulerian Polynomials and Numbers, Bernoulli Numbers and the Riemann Zeta-Function
UNIT-IV Ramanujan's Theory of Divergent Series, Sums of Powers, Bernoulli Numbers,
UNIT-V The Gamma Function, Analogues of the Gamma Function, Infinite Series Identities, Transformations and Evaluations

Suggested Reading:

1. Bruce C. Berndt, "Ramamjan's Notebooks Part 1". Springer (1985).

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Semester II

Course Code	Course Title	L	T	P	C	Sessional		ESE	Total
DVM-DSM-212	Applications of Vedic Mathematics in Computer Science	4	0	-	4	20	20	60	100

Course Objectives:

This course is an attempt to study the applications of Vedic Mathematics in number system, fuzzy models, cryptography, VLSI implementation, discrete Fourier transform and digital signal processing.

Learning Outcomes:

UO1: Understand the Number System and perform Conversion (Binary, Quadral, Octal, and hexadecimal Systems) and Basic Operations.

UO2: Apply Vedic Mathematics in Fuzzy Models.

UO3: Explore the Views of Students, Teachers, Educationalists, and the Public about the use and influence of Vedic Mathematics in the curriculum and the Students Community.

UO4: Utilize Vedic Mathematics in Cryptography, including the Implementation of RSA Cryptosystem and Analysis of cryptographic algorithms based on Vedic mathematics.

UO5: Apply Vedic Mathematics in Miscellaneous Applications such as VLSI implementation, Discrete Fourier Transform, and digital signal processing.

UNIT-I Number System, Conversion (Binary, Quadral, Octal and hexadecimal Systems) and Basic Operations
UNIT-II Vedic Mathematics in Fuzzy Models;
UNIT-III Views of Students about the use of Vedic Mathematics in their curriculum, Teachers views on Vedic Mathematics and its overall influence on the Students Community, Views of Educationalists about Vedic Mathematics and Views of the Public about Vedic Mathematics
UNIT-IV Vedic Mathematics in Cryptography; Implementation of RSA Cryptosystem Using Ancient Indian Vedic mathematics and Analysis of cryptographic algorithms based on Vedic mathematics
UNIT-V Vedic Mathematics in Miscellaneous Application: VLSI implementation, Discrete Fourier Transform and digital signal processing

Suggested Readings:

1. W.B. VasanthaKandasamyFlorentinSmarandache, "Vedic Mathematics –'Vedic' Or 'Mathematics' : A Fuzzy &Neutrosophic Analysis"

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Semester II

Course Code	Course Title	L	T	P	C	Sessional		ESE	Total
DVM-MDM-211	Indian Approach to Astrological Calculations	4	2	-	6	20	20	60	100

Course Objectives:

(1) The main objective of this course is to develop a comprehensive understanding of astrological principles and how these principles are used to analyse charts.

(2) This course will help the students to appreciate different dasa systems and their use in timing of events.

Learning Outcomes:

UO1:	1. To understand the fundamental concepts of Chart Analysis, including Signs, Planets,Subplanets, Special Ascendants, Divisional Charts, and Arudha Padas. 2. To acquire knowledge about Houses, Significators, Aspects and Intervening Factors 3. To learn about Ashtakavarga and comprehend its significance in chart analysis.
UO2:	1. To develop the skill of interpreting birth charts and analyzing topics related to Longevity 2. To grasp the concept of Planetary Strength and Sign Strength in chart analysis 3. To gain proficiency in analyzing the influence of various factors on birth charts
UO3:	1. To study and comprehend different Dasa systems such as VimsottariDasa, AshottariDasa, NarayanaDasa, and LagnaKendradiRasiDasa. 2. To analyze the effects and significance of these Dasa systems in chart interpretation 3. To explore the relationship between planetary periods and chart analysis
UO4:	1. To explore additional Dasa systems like Sudasa, Drigdasa, and Niryaana Shoola Dasa 2. To understand the principles and application of these Dasa systems in astrology. 3. To analyze the influence of these Dasa systems on the interpretation of birth charts.
UO5:	1. To understand the significance and interpretation of ShoolaDasa in astrology. 2. To explore the concept and application of Kalachakra Dasa in chart analysis. 3. To gain knowledge about the specific effects and implications of ShoolaDasa and Kalachakra Dasa in astrology.

UNIT-IChart Analysis: Basic Concepts, Rasis, Planets, Upagrahas, Special Lagnas, Divisional Charts, Houses, Karakas, Arudha Padas, Aspects and Argalas, Yogas and Ashtakavarga.
UNIT-IIChart Analysis: Interpreting Charts, Topics Related to Longevity, Strength of Planets and Rasis.
UNIT-IIIDasa Analysis: VimsottariDasa, AshottariDasa, NarayanaDasa and Lagna Kendradi Rasi Dasa.
UNIT-IV Dasa Analysis: Sudasa, Drigdasa, NiryaanaShoolaDasa
UNIT-IVDasa Analysis: ShoolaDasa and Kalachakra Dasa.

Suggested Readings:

1. P.V.R. Narasimha Rao: Vedic Astrology An Integrated Approach, Sagar Publication.
2. BepinBehari: Fundamentals of Vedic Astrology, VDIC ASTROLOGERS,S HANDBOOK I, Lotus Publication

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Semester II

Course Code	Course Title	L	T	P	C	Sessional		ESE	Total
DVM-SEC-211	Assignment and Presentation	2	0	-	2	20	20	60	100

Course Objectives:

The main objective of this course is to expose students to manuscript writing on a particular topic and presenting their thought in any educational institute.

Learning Outcomes:

1. Students will be able to develop creative skills in Manuscript writing.

2. They will have in depth knowledge of certain topics which will be shared with others through lectures.

1. Original Manuscript on any one of the following subjects:

i) History of Indian Mathematics from Vedic period to Modern times.
ii) Ancient Indian works related to ;Leelavati, Sulba Sutra, GanitaKaumudi etc. or any other ancient Indian text.
iii) Contributions of Indian Mathematicians; A Survey.
iv) Relevance of Vedic Mathematics in Modern Education System.

The project will be based upon personal observations/ research article/book chapter. Article giving some new idea.

2. Candidates may deliver lecture in any educational institute (School or College) on Vedic Mathematics and feedback from head of the institute may be submitted to the University. Feedback must be on letter head of the institute duly signed and stamped.

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Semester II

Course Code	Course Title	L	T	P	C	Sessional		ESE	Total
						ME	IA		
DVM-DSM-213	Introduction to Vedic Literature II	4	2	-	4	20	20	60	100

Course Objectives:

The objective of this paper is to delve into various aspects of Vedic sciences and life, focusing on different disciplines such as Śikṣā and Vyākaraṇa, Nirukta and Chandas, Kalpa and Jyotiṣa. and understanding the distinctive features of Vedic life. The paper aims to provide a concise exploration of these subjects, offering insights into the foundational aspects of Vedic knowledge, linguistic analysis, ritual practices, astrological principles, and the unique lifestyle of the Vedic society.

Learning Outcomes:

UO1: Develop an understanding of the fundamentals of Śikṣā (phonetics) and Vyākaraṇa (grammar) in Vedic studies

UO2: Acquire knowledge about the basics of Nirukta (etymology) and Chandas (metrics) as essential components of Vedic analysis and interpretation.

UO3: Acquire an introduction to Kalpa (ritual practices) in the context of Vedic sciences and its significance in Vedic culture.

UO4: Familiarize with Jyotiṣa (astrology) in the Vedic tradition and understand its introductory concepts and principles.

UO5: Understand the distinctive features and aspects of Vedic life, encompassing religious rituals, social customs, philosophical beliefs, and the overall lifestyle of the Vedic society.

UNIT-I Prologue on Śikṣā and Vyākaraṇa
UNIT-II Basics of Nirukta and Chandas
UNIT-III Introduction to Kalpa
UNIT-IV Introduction to Jyotiṣa
UNIT-V Vedic Life: A Distinctive Feature

Overall, the paper aims to provide learners with a comprehensive understanding of various Vedic disciplines, their applications, and their influence on the unique characteristics of Vedic life.

Suggested Readings:

Mahadevan, B., BhatVinayakRajat, NagendraPavana R.N. (2022), "Introduction to Indian Knowledge System: Concepts and Applications", PHI Learning Private Ltd. Delhi.

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School Board Meeting held on 14th June, 2024

The School Board has approved the minute of meeting of BOS of Department of Mathematics and Statistics held on 11/06/2024.

Prof. A.K. Saxena
External Member
Department of Mathematics, Maharaja Chhatrasal University, Chhatarpur (M.P.)

Prof. K.S. Varsney
External Member
HoD Physics, D.S. College, Aligarh, U.P.

Prof. Narendra Pandey
External Member
Department of Physics,
University of Lucknow (U.P.)

Prof. Diwakar Shukla
Member
HoD, Department of Mathematics & Statistics
Dr. Harisingh Gour V.V., Sagar (M.P.)

Prof. Ashish Verma
Member
HoD, Department of Physics
Dr. Harisingh Gour V.V., Sagar (M.P.)

Prof. R.K. Rawat
Member
Department of Applied Geology,
Dr. Harisingh Gour V.V., Sagar (M.P.)

Prof. Ranveer Kumar
Member
Department of Physics
Dr. Harisingh Gour V.V., Sagar (M.P.)

Prof. U.K. Patil
Member
Department of Pharmaceutical Science,
Dr. Harisingh Gour V.V., Sagar (M.P.)

Dr. Abhishek Bansal
Member & Associate Professor
HoD, Department of Computer Science & Applications
Dr. Harisingh Gour V.V., Sagar (M.P.)

Prof. U.K. Khedlekar
Member & Associate Professor
Department of Mathematics & Statistics,
Dr. Harisingh Gour V.V., Sagar (M.P.)

Dr. Rekha Garg Sonaki
Member & Associate Professor
Department of Physics
Dr. Harisingh Gour V.V., Sagar (M.P.)

Prof. Kamal Kant Ahirwar
Member & Assistant Professor
Dept. of Computer Science & Applications
Dr. Harisingh Gour V.V., Sagar (M.P.)

Dr. Mahesh Kumar Yadav
Member & Assistant Professor
Department of Physics
Dr. Harisingh Gour V.V., Sagar (M.P.)

Dr. Maheshwar Panda
Member & Assistant Professor
Department of Physics
Dr. Harisingh Gour V.V., Sagar (M.P.)

Ms. Shivani Khare
Member & Assistant Professor
Department of Vedic Studies
Dr. Harisingh Gour V.V., Sagar (M.P.)

Prof. R.K. Vangele
Chairman, School Board & Dean, SMPS
Dr. Harisingh Gour V.V., Sagar (M.P.)