

PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended:

- P.K. Sinha, Computer Fundamentals, BPB Publication, Sixth Edition.
- V. Rajaraman, Fundamentals of Computers, PHI Sixth Edition.
- B. Ram, Computer Fundamentals Architecture and Organization, New Age International Publishers, Fifth Edition.
- Raja Raman V. Fundamental of Computers, Prentice Hall of India, New Delhi.
- Peter Baer Galvin, Greg Gagne, Operating System Concepts – Abraham Silberschatz, 8th edition, Wiley-India, 2009.

Reference Books Recommended:

- Chetan Shrivastava, Fundamentals of Information Technology, Kalyan Publishers.
- Dr. Santosh Kumar Miri, Computer Fundamentals and Office Automation, Iterative International Publisher IIP.
- Alexis Leon and Mathews Leon, Fundamentals of Information Technology, Vikash Publication.
- Leon and Leon, Fundamental of IT, Leon Tec world.
- Aksoy and Denardis, Introduction to Information Technology, Cengage learning.
- Suresh K. Basandra, Computers Today, Galgotia Publications.
- Dennis P.Curtin, Kim Foley, Kunai Sen and Cathleen Morin, Information Technology – The breaking wave, TMH.
- Kogent Solution Inc., OFFICE 2013 in Simple Steps, DremTech Press.
- Kogent Learning Solutions Inc., Access 2010 in Simple Steps
- Andrew S. Tanenbaum, Modern Operating Systems, 3rd Edition, PHI
- Elmasri, Carrick, Levine, Operating Systems: A Spiral Approach – TMH Edition
- Akshay Singh , Operating System, RGCSM Publications

Online Resources:

- Indian Knowledge System and computer Science from Swayam portal
https://onlinecourses.swyam2.ac.in/imb23_mg53/preview
- Fundamentals of Computer :
<https://www.w3schools.blog/computer-fundamentals-tutorial>
- Fundamentals of Computer, Memory:
https://www.tutorialspoint.com/computer_fundamentals/index.htm
- Fundamentals of Computer , Windows Operating System :
<https://vikaspedia.in/education/digital-literacy/it-literacy-courses-in-associating-with-msup/computer-fundamentals>
- Fundamentals of Computer:
<https://nptel.ac.in/courses/106/103/106103068/>
- Introduction to Operating System:
<https://www.w3schools.in/operating-system/tutorials/>
- Introduction to Operating System:
<https://www.javatpoint.com/windows>.
- Peripheral Devices
<https://www.tutorialspoint.com/what-are-peripheral-devices>
- Windows :
<https://www.javatpoint.com/windows>
- Linux:
<https://www.javatpoint.com/what-is-linux>

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100 Marks

Continuous Internal Assessment (CIA): 30 Marks

End Semester Exam (ESE): 70 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 20 & 20	Better marks out of the two Test / Quiz obtained marks in Assignment shall be considered against 30 Marks
	Assignment / Seminar - 10	
	Total Marks - 30	

End Semester Exam (ESE):	Two section – A & B
	Section A: Q1. Objective – 10 x1= 10 Mark; Q2. Short answer type- 5x4 =20 Marks
	Section B: Descriptive answer type qts., 1 out of 2 from each unit-4x10=40 Marks

Name and Signature of Convener & Members of CBoS:

~~Dr. H.S. Hada~~
Chairman

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[Signature]
(Suresh Thakur)

[Signature]
Sheelendra Arora

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[Signature]
11/10/2019
Dr. V.K. Gupta

[Signature]

[Signature]
ANJEETA KUMAR

[Signature]
Jyoti Kulkarni

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PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended:

- Rusell A Stultz, MS DOS 6.22 BPB Publications
- Brain Underdahl, Teach yourself Windows 2000, Wiley Publications.

Reference Books Recommended:

- Peter Norton, Maximizing Windows, Teachmedia.
- Ray Duncan, Advances MS-DOS Programming, BPB
- Akshay Singh, Operating System, RGCSM Publications
- Ray Yao, Shell Scripting in 8 Hours

Online Resources:

- DOS: <https://www.javatpoint.com/ms-dos-operating-system>
- Windows: <https://www.javatpoint.com/windows>
- Linux: <https://www.javatpoint.com/what-is-linux>
- Fundamentals of Computer, Windows Operating System:
<https://vikaspedia.in/education/digital-literacy/it-literacy-courses-in-associating-with-msup/computer-fundamentals>
- DOS: <https://www.geeksforgeeks.org/ms-dos-operating-system/>

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 50 Marks

Continuous Internal Assessment (CIA): 15 Marks

End Semester Exam (ESE): 35 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2):	10 & 10	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks
	Assignment/Seminar + Attendance -	05	
	Total Marks -	15	

End Semester Exam (ESE):	Laboratory / Field Skill Performance: On spot Assessment		Managed by Course teacher as per lab. status
	A. Performed the Task based on lab. work	- 20 Marks	
	B. Spotting based on tools & technology (written)	- 10 Marks	
	C. Viva-voce (Based on principle/technology)	- 05 Marks	

Name and Signature of Convener & Members of CBoS:

Dr. H.S. Hota
Chairman

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[Signature]

[Signature]
(Deemed holder)

[Signature]
Snehalata
Anand

[Signature]
Jyoti
Kumar

[Signature]
Anand

[Signature]
ANJEETA KUMAR

FOUR YEAR UNDER GRADUATE PROGRAM (2024-28)
DEPARTMENT OF MATHEMATICS
COURSE CURRICULUM

Part A: Introduction

Program: Bachelor in Science (Certificate/Diploma/Degree/Honors)		Semester - I	Session:2024-2025
1	Course Code	MASC-01	
2	Course Title	Elementary Calculus	
3	Course Type	DSC	
4	Pre-requisite(if any)	Knowledge of basic Differential and Integral calculus	
5	Course Learning Outcome (CLO)	<p>This Course will enable the students to:</p> <ul style="list-style-type: none"> ➤ Know about ancient Indian Mathematicians and their contribution ➤ Calculate the limit and examine the continuity and understand the geometrical interpretation of differentiability. Apply various tests to determine convergence. ➤ Understand the consequences of various mean value theorems. ➤ Understand concepts of Curvature and Asymptotes . ➤ Draw curves in Cartesian and polar coordinate systems ➤ Understand the elementary integration of transcendental function and understand applications of reduction formulae. 	
6	Credit Value	4 C	1Credit = 15 hours- Learning and observation
7	Total Marks	Maximum Marks : 100	Minimum Passing Marks:40

Part B: Content of the Course

Total no of teaching – learning period =60 Periods (60 Hours)

UNIT	Topics	No of Periods
I	<p>Contributions and Biography of Indian Mathematicians: Bodhayan, Apasthamb, Katyayan, Mahaveeracharya, Brahmagupta and Bhaskarachaya in special context of Leelavati.</p> <p>Sequences, Continuity and Differentiability : Notion of convergence of sequences and series of real numbers, Definition of limit and continuity of a real valued function; Differentiability and its geometrical interpretation. Elementary Differentiation.</p>	15
II	<p>Expansion of Functions: Rolle's Theorem, Lagrange's mean value theorem, Cauchy's mean value theorem and their geometrical interpretations, Successive differentiation and Leibnitz theorem, Maclaurin's and Taylor's theorems for expansion of a function.</p>	15
III	<p>Curvature, Asymptotes , Curve Tracing: Curvature; Asymptotes of general algebraic curves, Parallel asymptotes, Asymptotes parallel to axes; Symmetry, Concavity and convexity, Points of inflection, Tangents at origin, Multiple points, Position and nature of double points; Tracing of Cartesian, polar and parametric curves.</p>	15

(Dr. S. Dashputra)

Dr. Omkar Kulkarni

(Signature)

Dr. Nachu Shinde

(Dr. P. K. Sahu)

Dr. S. Khan

(Signature)

(Signature)

IV	Integration: Elementary integration, Integration of Transcendental function, Reduction formulae, Definite integral.	15
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Part C - Learning Resource

Text Books, Reference Books, Other Resources

Text Books Recommended-

1. Howard Anton, I. Bivens & Stephan Davis (2016). Calculus (10th edition). Wiley India.
2. Gabriel Klambauer (1986). Aspects of Calculus. Springer-Verlag.
3. Wieslaw Krawcewicz & Bindhyachal Rai (2003). Calculus with Maple Labs. Narosa.
4. Gorakh Prasad (2016). Differential Calculus (19th edition). Pothishala Pvt. Ltd.

Reference Books Recommended-

5. George B. Thomas Jr., Joel Hass, Christopher Heil & Maurice D. Weir (2018). Thomas' Calculus (14th edition). Pearson Education.
6. Jerrold Marsden, Anthony J. Tromba & Alan Weinstein (2009). Basic Multivariable Calculus, Springer India Pvt. Limited.
7. James Stewart (2012). Multivariable Calculus (7th edition). Brooks/Cole. Cengage.
8. Monty J. Strauss, Gerald L. Bradley & Karl J. Smith (2011). Calculus (3rd edition). Pearson Education. Dorling Kindersley (India) Pvt. Ltd.

E-resources: <https://onlinecourses.nptel.ac.in>
<https://epgp.inflibnet.aci.in>
<https://swayam.gov.in>
<https://www.mooc.org>

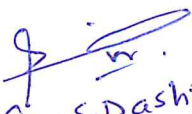
Part D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

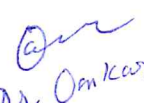
Maximum Marks:	100 Marks
Continuous Internal Assessment (CIA):	30 Marks
End Semester Examination (ESE):	70 Marks

Continuous Internal Assessment (CIA) (Conducted by course teacher)	Test /Quiz – 20+20 Marks	Better marks out of two test/quiz + obtained marks in Assignment shall be considered against 30 marks
	Assignment/Seminar- 10 Marks	
End Semester Examination (ESE)	Two Section-A&B Section-A: Q1.Objective- 10x1=10 marks Q2. Short answer type question-5x4=20marks Section-B: Descriptive answer type question, 1 out of 2 from each unit- 10x4= 40 Marks	

Name and signature of convener & members of CBOS-


Dr. S. Dashputra


(Dr. P. K. Sahu)



Dr. Omkar Lal Shrivastava

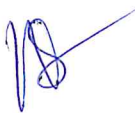









Dr. S. Khan





FOUR YEARS UNDERGRADUATE PROGRAM (2024-28)
DEPARTMENT OF PHYSICS
COURSE CURRICULUM

PART – A: INTRODUCTION			
Program: Bachelor in Science (Certificate/ Diploma/ Degree/ Honors)		Semester: I	
		Session: 2024-25	
1	Course Code	PHSC-01T	
2	Course Title	Mechanics	
3	Course Type	Discipline Specific Course	
4	Pre-requisite (if any)	As per Program	
5	Course Learning Outcomes (CLO)	<p><i>After going through the course, the student should be able to:</i></p> <ul style="list-style-type: none"> ➤ Analyze and apply the laws of motion to various dynamical situations. ➤ Explain and demonstrate the principle of conservation of momentum and energy including their application in real-world scenario such as collision and energy transformation. ➤ Evaluate and calculate moment of inertia for objects of different shapes and analyze how these properties affect the motion of rotating bodies. ➤ Analyze flow of fluids. ➤ Describe special relativistic effects and their effects on the mass and energy of a moving object. 	
6	Credit Value	03 Credits	1 Credit= 15 Hours for Learning & Observation
7	Total Marks	Maximum Marks: 100	Minimum Pass Marks: 40
PART – B: CONTENT OF THE COURSE			
Total No. of Teaching–learning Periods (01 Hr. per period) - 45 Periods (45 Hours)			
Unit	Topics (Course contents)		No. of Periods
I	Historical Background: Contribution of Aryabhata and Varahmihir to science and society, Brief biography of Vikram Sarabhai with his contribution. Vectors: Scalar and vector quantities & fields, Scalar & Vector products of two vectors, Derivatives of a vector, Gradient of scalar field and its physical significance. Laws of Motion: Review of Newton’s Laws of motion, Dynamics of a system of particles, Concept of Center of Mass, Motion of center of mass, Conservation of linear momentum, Motion of Rocket. Work and Energy: Work-Energy theorem for conservative forces, Force as a gradient of Potential Energy, Conservation of energy, Elastic and in-elastic Collisions		12
II	Rotational Dynamics: Angular momentum, Torque, Conservation of angular momentum, Moment of Inertia, Theorem of parallel and perpendicular axes (statements only), Calculation of Moment of Inertia of discrete and continuous objects (Rectangular lamina, disc, solid cylinder, solid sphere). Elasticity: Stress & Strain, Hooke’s law, Elastic constants, Poisson’s Ratio, Relationship between various elastic moduli (without derivation), Work done in twisting a cylinder. Fluid Dynamics: Flow of fluids, Coefficient of viscosity, Derivation of Poiseuille’s formula, Motion of a spherical body falling in a viscous fluid, Stoke’s law, Expression for terminal velocity.		12
III	Gravitation: Newton’s Law of Gravitation, Motion of a particle in a central force field (motion is in a plane, angular momentum is conserved, areal velocity is constant), Kepler’s Laws (statements only), Satellite in circular orbit and applications, Geosynchronous orbits. Oscillations: Simple harmonic motion, Differential equation of SHM and its solutions, Kinetic and Potential Energy, Total Energy and their time averages, Compound pendulum, Differential equations of damped oscillations and forced oscillations (Conceptual only).		11
IV	Special Theory of Relativity: Frame of reference, Galilean Transformations, Inertial and Non-inertial frames, Outcomes of Michelson Morley’s Experiment, Postulates of Special Theory of Relativity, Lorentz Transformation, Length contraction, Time dilation, Relativistic transformation of velocity, Relativistic variation of mass, Mass-energy equivalence, Transformation of Energy and Momentum.		10
Keywords:		Aryabhata, Vectors, Newton's Laws, Angular Momentum, Elasticity, Gravitation, Oscillations, Relativity	

Signature of Convener & Members (CBoS) :

FOUR YEARS UNDERGRADUATE PROGRAM (2024 – 28)
DEPARTMENT OF PHYSICS
COURSE CURRICULUM

PART – A: INTRODUCTION			
Program: Bachelor in Science (Certificate/ Diploma/ Degree/ Honors)		Semester: I	Session: 2024-25
1	Course Code	PHSC- 01P	
2	Course Title	Mechanics	
3	Course Type	Discipline Specific Course	
4	Pre-requisite (if any)	As per Program	
5	Course Learning Outcomes (CLO)	After the completion of the course, Students are expected to understand working mechanism and laws of classical mechanics. The Students will be able to <ul style="list-style-type: none"> ➤ Assemble required parts/devices and arrange them to perform experiments. ➤ Record/ observe data as required by the experimental objectives. ➤ Analyze recorded data and formulate it to get desired results. ➤ Interpret results and check for attainment of proposed objectives related to laws of mechanics and its applications 	
6	Credit Value	01 Credit	1 Credit = 30 Hours Laboratory Work
7	Total Marks	Maximum Marks: 50	Minimum Pass Marks: 20
PART – B: CONTENT OF THE COURSE			
Total No. of learning-Training/performance Periods-30 Periods (30 Hours)			
Sr. No.	Objects (At least 10 of the following or related Experiments)	No. of Period	
1	Measurements of length (or diameter) using vernier caliper, screw gauge and travelling microscope.	30	
2	To study the random error in observations.		
3	To study the motion of the spring and calculate (a) Spring constant and, (b) g.		
4	To determine the Moment of Inertia of a Flywheel.		
5	To determine g and velocity for a freely falling body using Digital Timing Technique.		
6	To determine Coefficient of Viscosity of water by Capillary Flow Method (Poiseuille's method).		
7	To determine the Young's Modulus of a Wire by Optical Lever Method.		
8	To determine the Modulus of Rigidity of a Wire by Maxwell's needle.		
9	To determine the elastic constants of a wire by Searle's method		
10	To determine the value of g using Bar Pendulum.		
11	To determine the value of g using Kater's Pendulum.		
12	Study of bending of a beam/ cantilever		
13	To determine Moment of Inertia of an irregular body by Inertia Table		
Keywords	Moment of Inertia, Pendulum, Vernier Callipers, Screw Gauge, Travelling microscope, Elastic Constant, Searle's Method, Stoke's Method, Cappillary Rise Method, Viscosity, Surface Tension		

Signature of Convener & Members (CBoS) :

PART – C: LEARNING RESOURCES

Text Books, Reference Books Recommended and Others

Text Books Recommended-

1. Mechanics & Properties of matter, D.C. Tayal & P. Tayal, 2023, Pub. By Authors.
2. Unified Physics I –R.P.Goyal, Shivalal Agrawal Publication
3. Unified Physics I, Navbodh Publication

Reference Books Recommended-

1. Mechanics, Berkeley Physics, vol.1, C.Kittel, W.Knight, et.al. 2007, Tata McGraw-Hill.
2. Physics, Resnick, Halliday and Walker 8/e. 2008, Wiley.
3. Introduction to Special Relativity, R. Resnick, 2005, John Wiley and Sons.

Online Resources (e-books/ learning portals/ other e-resources)

1. All e-books of physics <https://www.e-booksdirectory.com/listing.php?category=2>
2. Free physics text book in PDF
3. https://www.motionmountain.net/?gclid=CjwKCAjwmq3kBRB_EiwAjkNDp5v8Yy6xK1s0Km_a0VR0AWGlichRwFfCC0-vpZK1jrPoEOAnBq8fcqRoCILsQAvD_BwE
4. Cambridge University Books for Physics <https://www.cambridgeindia.org/>
5. Books for solving physics problems <https://bookboon.com/en/physics-ebooks>
6. NPTEL Online courses <https://nptel.ac.in/courses/115105098;>
[https://archive.nptel.ac.in/courses/115/106/115106123/;](https://archive.nptel.ac.in/courses/115/106/115106123/)
7. BSc Lectures by Prof. H C Verma: <https://bsc.hcverma.in/index.php/course/relativity;>
<https://bsc.hcverma.in/index.php/course/cm1>

PART – D: ASSESSMENT AND EVALUATION

Suggested Continuous Evaluation Methods:

Maximum Marks: 100Marks

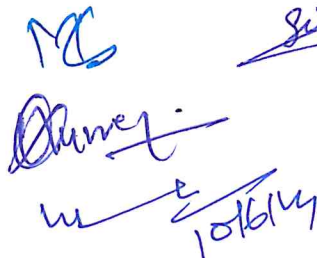
Continuous Internal Assessment (CIA):30 Marks

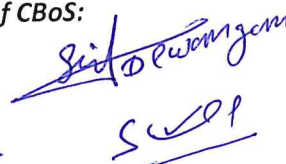
End Semester Examination (ESE): 70 Marks

Continuous Internal Assessment (CIA): (By course teacher)	Internal Test/ Quiz (2): 20 20 Assignment/ Seminar (1):10 Total Marks: 30	Better marks out of the two Test / Quiz + marks obtained in Assignment shall be considered against 30 Marks
End Semester Exam (ESE):	Two section – A & B Section A: Q1. Objective – 10 x1= 10 Mark; Q2. Short answer type- 5x4 =20Marks Section B: Descriptive answer type, 1out of 2 from each unit-4x10=40 Marks	

Name and Signature of Convener & Members of CBoS:









PART – C: Learning Resources

Text Books, Reference Books and others

Text Books Recommended-

1. Advanced Practical Physics for students, B.L.Flint&H.T. Worsnop, 1971, Asia Publishing House.
2. Engineering Practical Physics, S.Panigrahi& B.Mallick,2015, Cengage Learning India Pvt. Ltd.
3. A Text Book of Practical Physics, Indu Prakash and Ramakrishna, 11th Edition, 2011, Kitab Mahal, New Delhi.
4. Practical Physics B.Sc. I : R P Goyal, Shivrul Publications

Reference Books Recommended-

1. Advanced Practical Physics for Students by B.L. Worsnop and H.T. Flint
2. Practical Physics by G.L. Squires
3. An Introduction to Error Analysis: The Study of Uncertainties in Physical Measurements by John R. Taylor
4. Mechanics and Properties of Matter by J.C. Upadhyaya

Online Resources (e-books/ learning portals/ other e-resources)

1. Link for e-Books for Physics:Physics Practical:
<https://www.uou.ac.in/sites/default/files/slm/BSCPH-104.pdf>
2. Virtual Lab :<https://vlab.amrita.edu/?sub=1&brch=74>
3. <https://vlab.amrita.edu/?sub=1&brch=74&sim=571&cnt=1>
4. <https://www.ae.msstate.edu/vlsm/>

PART – D : ASSESSMENT AND EVALUATION

Suggested Continuous Evaluation Methods:

Maximum Marks: 50 Marks

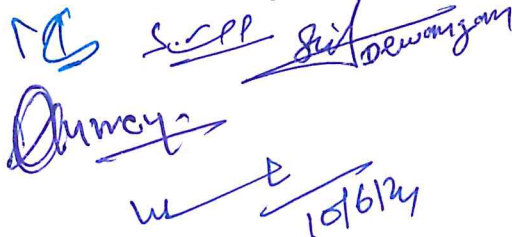
Continuous Internal Assessment(CIA):15 Marks

EndSemester Exam(ESE):35 Marks

Continuous InternalAssessment(CIA): (By Course Teacher)	Internal Test / Quiz - (2): 10 & 10 Assignment/Seminar +Attendance - 05 Total Marks - 15	Better marks out of the two Test/Quiz +Marks obtained in Assignment shall be considered against 15 Marks
End Semester Exam (ESE):	Laboratory Performance: On spot Assessment Performed the Task based on lab. work - 20 Marks Spotting based on tools & technology (written) - 10 Marks Viva-voce (based on principle/technology) - 05 Marks	Managed by Course teacher as per lab. status

Name and Signature of Convener & Members of CBoS:





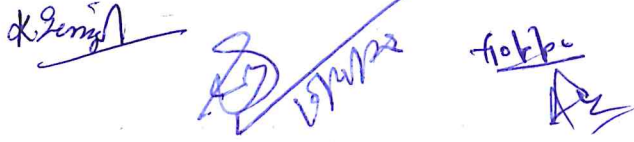


**FOUR YEAR UNDERGRADUATE PROGRAM
DEPARTMENT OF ECONOMICS
COURSE CURRICULUM – 2024-28**

PART-A, INTRODUCTION			
PROGRAM: Bachelor in Art (Certificate/Diploma/Degree)		Sem -I	SESSION:2024- 2025
SUBJECT: ECONOMICS			
1	COURSE CODE:	ECGE -01	
2	COURSE TITLE:	BASICS OF ECONOMICS	
3	COURSE TYPE:	DSC	
4	Pre-requisite	As per program	
5	COURSE LEARNING OUTCOME (CLO):	<ul style="list-style-type: none"> • This course gives a general idea about the basics of economics. • It tries to bridge the gap between higher secondary syllabus and higher education. • This paper creates eagerness and enthusiasm among students to know more about economics. • It also envisages the basic knowledge of micro and macroeconomics and tries to create an interest. 	
6	CREDIT VALUE:	4 Credits	Credit= 15 Hours- Learning and observation
7	TOTAL MARKS:	Max Marks:100	Min Passing Marks:40
PART-B, CONTENT OF THE COURSE			
Total No. of Teaching-Learning Periods (01Hr per period) -60 Periods (60 Hours)			
UNIT	TOPICS (Course Contents)		No of Periods
UNIT I- What is Economics	<ol style="list-style-type: none"> 1. Origin of economics in Indian culture 2. Definition, Nature and Scope of Economics. 3. Major fields- Micro and Macro 4. Classical, Neo-classical and Modern Economists. 5. Major contribution by various economists (in brief) – Adam Smith, J M Keynes, Marshal, Pigou. 		15
UNIT II- Basics of Macro Economics	<ol style="list-style-type: none"> 1. Circular Flow of Income 2. Measurement of National Income 3. Basics of GDP, GNP, NNP 4. Money and its functions 5. Demand and supply of money 6. Concept of consumption and saving 		15
UNIT III- Basics of Micro Economics	<ol style="list-style-type: none"> 1. Meaning of consumer behavior 2. Concept of utility 3. Demand and elasticity 4. Basics of Production function 5. Various markets in the economy (In brief). 		15

UNIT IV- Economy of Chhattisgarh	<ol style="list-style-type: none"> 1. Agriculture in Chhattisgarh- Agricultural Production, Land use, Irrigation facilities. 2. Industries in Chhattisgarh – Major Industries, Mineral based industries in Chhattisgarh 3. Infrastructure in Chhattisgarh, Road and Railways. 4. Per Capita income and Gross State domestic Product in C.G. 	15
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Signature of Convener & Members CBoS:-



PART-C, LEARNING RESOURCES

AUTHOR	TITLE	PUBLISHER
सिन्हा, वी.सी., पुष्पा सिन्हा	व्यष्टि अर्थशास्त्र	SBPD
पंत जे०सी० एवं मिश्रा	सूक्ष्म अर्थशास्त्र	साहित्य भवन
जैन, के. पी.	आधुनिक माइक्रो अर्थशास्त्र	रतन प्रकाशन मंदिर
Jhingan, M.L.	Micro Economic Theories (Hindi & English)	Vrinda Publications
Ahuja, H.L.	Principles of Micro Economics (Hindi & English)	S Chand & Co
Seth, M.L.	Micro Economics (Hindi & English)	L.N Agrawal
Dhingra, I. C., V. K. Garg	Principles of Micro Economics (Reference)	Sultan Chand & Sons
Bose, D., A. Marimuthu	An Introduction to Micro Economics (Reference)	Himalaya Publishing House

Online Resources

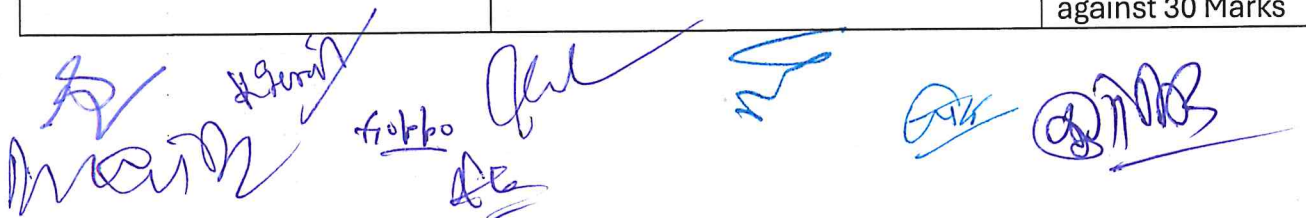
1	https://www.swayamprabha.gov.in/index.php
2	https://vidyamitra.inflibnet.ac.in/index.php
3	https://epgp.inflibnet.ac.in/Home/ViewSubject
4	https://descg.gov.in/

PART-D ASSESSMENT & EVALUATION

Suggested Continuous Evaluation Methods:

Maximum Marks	:100 Marks
Continuous Internal Assessment (CIA)	: 30 Marks,
End Semester Exams (ESE)	:70 marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Tests/Quiz-(2) : 20 & 20 Assignment/Seminar/Attendance - 10 Total Marks - 30	Better marks out of the two Test /Quiz +Obtained marks in Assignment shall be considered against 30 Marks
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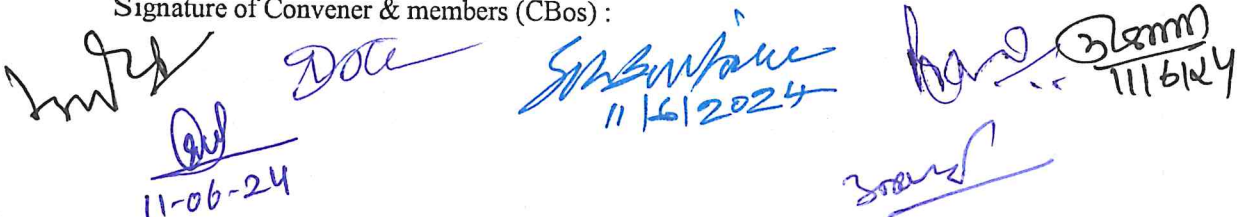


FOUR YEAR UNDERGRADUATE PROGRAM - (2024-28)
DEPARTMENT OF HINDI
COURSE CURRICULUM

PART -A : Introduction			
Program: Bachelor in Arts Certificate/Diploma/Degree/Honors		Semester - I	Session: 2024-25
1	Course Code	HNGE-01	
2	Course Title	हिन्दी साहित्य का इतिहास (आदिकाल से रीतिकाल तक)	
3	Course Type	GE	
4	Pre-requisite (if any)	As per requirement	
5	Course Learning Outcome (CLO)	1. विद्यार्थी साहित्येतिहास, काल विभाजन एवं नामकरण संबंधी ज्ञान से अवगत हो सकेंगे। 2. युगीन परिस्थितियों और साहित्यिक प्रवृत्तियों के आधार पर साहित्य और समाज के अन्तर्संबंधों को समझ पाने में सक्षम हो सकेंगे। 3. युगीन सामाजिक सांस्कृतिक परिस्थितियों के परिपेक्ष्य में व्यापक दृष्टिकोण की समझ का विकास हो सकेगा। 4. आदिकाल से रीतिकाल तक के सम्पूर्ण रचनाकारों की रचनाओं और उसके विविध विषयों पर विश्लेषणात्मक विचारशीलता का विकास हो सकेगा। 5. हिन्दी गद्य के आविर्भाव के प्रधान कारणों एवं परिस्थितियों को समझ सकेंगे।	
6	Credit Value	4 Credits	(01 Credit = 15 Hours - learning & Observation)
7	Total Marks	Maximum Marks : 100	Minimum Passing Marks : 40

PART -B : Content of the Course		
Total No. of Teaching-Learning Periods (01 Hr. Per Period) - 60 Periods (60 Hours)		
Unit	Topics (Course Contents)	No. of Period
I	हिन्दी साहित्य का इतिहास व काल विभाजन – अ. हिन्दी साहित्य के इतिहास लेखन की परम्परा, समस्या ब. हिन्दी साहित्य के इतिहास का कालविभाजन व नामकरण	15
II	आदिकाल – अ. आदिकाल : सामान्य परिचय प्रमुख प्रवृत्तियां व कवि, सिद्ध साहित्य, नाथ साहित्य ब. रासो काव्य, लौकिक साहित्य, जैन साहित्य	15
III	भक्तिकाल – अ. भक्तिकाल : सामान्य परिचय, प्रमुख प्रवृत्तियां व कवि । निर्गुण भक्तिधारा (प्रेममार्गी, ज्ञानमार्गी) ब. सगुण भक्तिधारा (रामकाव्य, कृष्णकाव्य)	15
IV	रीतिकाल – अ. रीतिकाल : सामान्य परिचय, प्रमुख प्रवृत्तियां व कवि ब. रीतिबद्ध, रीतिसिद्ध एवं रीतिमुक्त काव्यधारा	15
Keywords		

Signature of Convener & members (CBos) :



 11-06-24

PART -C : Learning Resource**Text Books, Reference Books and Others**

1. हिन्दी साहित्य का इतिहास – आचार्य रामचन्द्र शुक्ल, लोक भारती प्रकाशन, इलाहाबाद
2. हिन्दी साहित्य का इतिहास – डॉ. नगेन्द्र, राजकमल प्रकाशन, नई दिल्ली
3. हिन्दी साहित्य का आदिकाल – आचार्य हजारीप्रसाद द्विवेदी, राजकमल प्रकाशन, नई दिल्ली
4. हिन्दी साहित्य उदभव और विकास – आचार्य हजारीप्रसाद द्विवेदी, राजकमल प्रकाशन, नई दिल्ली
5. हिन्दी साहित्य युग और प्रवृत्तियों – डॉ. शिवकुमार शर्मा
6. हिन्दी साहित्य का विवेचनात्मक इतिहास – डॉ. सरयूकांत शास्त्री
7. हिन्दी साहित्य की भूमिका – हजारी प्रसाद द्विवेदी
8. हिन्दी साहित्य का आलोचनात्मक इतिहास – राम कुमार वर्मा, लोक भारती प्रकाशन प्रयागराज
9. हिन्दी भाषा साहित्य का इतिहास तथा काव्यांग विवेचन – डॉ. आर.के.पाण्डेय, शताक्षी प्रकाशन रायपुर

Online Resources -

1. epgpathshala
2. <https://www.hindwi.org>

PART -D : Assessment And Evaluation**Suggested Continuous Evaluation Methods :**



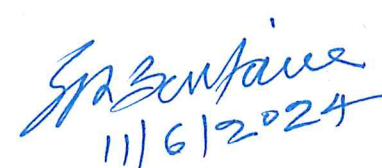
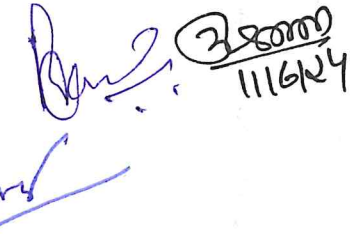
Maximum Marks : 100 Marks

Continuous Internal Assessment (CIA) : 30 Marks

End Semester Exam (ESE) : 70 Marks

Continuous Internal Assessment : (CIA) : (By Course Teacher)	Internal Test/Quiz-(2) : 20 & 20 Marks Assignment/Seminar - 10 Total Marks 30	Better marks out of the two Text/Quiz obtained marks in assignment shall be considered against 30 Marks
End Semester Exam (ESE) :	Two Section - A&B Section A : Q1 Objective - 10X1=10 Marks Section A : Q2 Short Answer Type - 5X4=20 Marks Section B : Descriptive Answer Type Qts. 1 out of 2 From Each Unit - 4X10=40 Marks Total =70 Marks	

Name and Signature of Convener & Members of CBoS:





11-06-24
11/6/2024
11/6/24

FOUR YEAR UNDERGRADUATE PROGRAM (2024 - 28)
DEPARTMENT OF ENGLISH
COURSE CURRICULUM

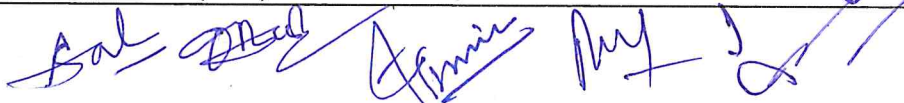
PART- A: Introduction		
Program: Bachelor in Arts (Certificate/Diploma/Degree/Honors)		Semester - I
		Session: 2024-2025
1	Course Code	ENGE-01
2	Course Title	Introduction to the study of English Literature
3	Course Type	DSC (Discipline Specific Course)
4	Pre-requisite	As per Program
5	Course Learning Outcomes (CLO)	<p>After completion of this course, the students will be able to:</p> <ul style="list-style-type: none"> ➤ Have a deep insight into various genres of English Literature and write clearly, coherently and effectively about them. ➤ Recognize the culture and context of the work of literature. ➤ Develop sensitivity to nature and fellow human beings. ➤ Understand the growth of Indian Literature in English. ➤ Apply the knowledge of literary genres in interdisciplinary fields. ➤ Read and analyze the representative texts as categorized under the various genres
6	Credit Value	4 Credits
		Credit = 15 Hours - learning & Observation
7	Total Marks	Max. Marks: 100
		Min Passing Marks: 40
PART -B: Content of the Course		
Total No. of Teaching-learning Periods (01 Hr. per period) – 60 Periods (60 Hours)		
Unit	Topics (Course contents)	No. of Periods
I	Section A: <i>Types of Poetry: The Sonnet, The Elegy, The Ode, The Epic, The Ballad, The Lyric, The Dramatic Monologue, Allegory.</i> Section B: (Any Two) 1. William Shakespeare: Shall I Compare Thee to a Summer's Day? 2. William Wordsworth: The Solitary Reaper 3. Rabindranath Tagore: Waiting 4. Sarojini Naidu: The Autumn Song 5. Toru Dutt: Our Casuarina Tree	15
II	Section A: <i>Types of Prose: Autobiography, Biography, Memoir, Travelogue; Periodical Essay; Formal Essay; Personal Essay.</i> Section B: (Any Two) 1. Francis Bacon- Of Studies 2. Charles Lamb- Dream Children 3. Joseph Addison- Sir Roger at the Church 4. A.P.J. Kalam- Patriotism Beyond Politics & Religion (from Our Ignited Mind) 5. Amartya Sen- Tagore & His India (from The Argumentative Indian)	15
III	Section A: <i>Types of Drama: Tragedy, Comedy, Tragicomedy, Farce, Melodrama, The Problem Play; Theatre of Absurd</i> <i>Elements of Drama: Plot, Character, Diction, Thought, Music, Spectacle.</i> Section-B Drama: (Any Two) 1. William Shakespeare: The Merchant of Venice 2. Oliver Goldsmith: She Stoops to Conquer	15

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FOUR YEAR UNDERGRADUATE PROGRAM (2024–28)
Department of Commerce and Management

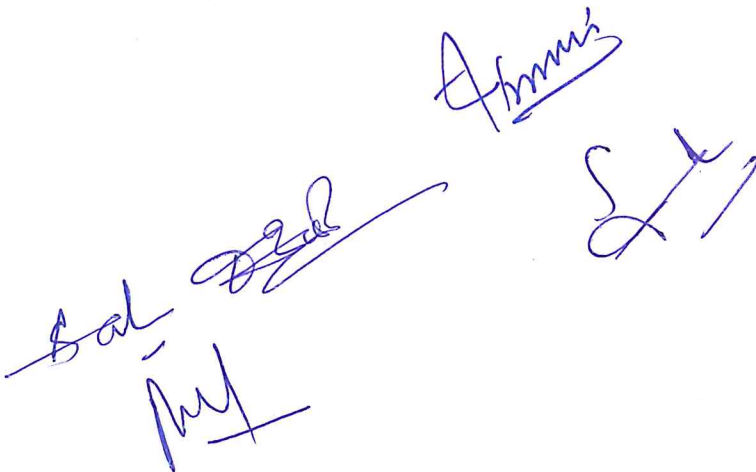
COURSE CURRICULUM

PART-A: Introduction			
Program: Bachelor in Business Administration (Certificate / Diploma / Degree/Honors)		Semester-I	Session:2024-2025
1	CourseCode	BBSC-01	
2	CourseTitle	Principles of Management	
	CourseType	Discipline Specific Course (DSC)	
4	Pre-requisite(if,any)	Asperrequirement	
5	CourseLearning Outcomes(CLO)	<ul style="list-style-type: none"> ➤ The students will understand concepts, rules or procedures of Principles of Management. ➤ Improve their cognitive thinking. ➤ The students will learn proficient and effective use of knowledge and ability in performance.. 	
6	CreditValue	4Credits	Credit=15Hours-learning&Observation
7	TotalMarks	Max.Marks: 100	MinPassingMarks: 40
PART-B: ContentoftheCourse			
TotalNo.of Teaching–learningPeriods(01 Hr.perperiod)– 60Periods(60 Hours)			
Unit	Topics(Coursecontents)		No.of Period
I	Introduction: Concept, Nature, Process and Significance of Management, Role, Function and Responsibility of Management, Management Thought; Classical and Neo-classical system; Concept Approaches. (Learning through experience in Chhattisgarh area.)		15
II	Planning: Concept of Planning, Characteristics of Planning, Steps in Planning Process; Benefits and Limitations of Planning, Types of Planning, Objective, Strategies, Policies, Environment analysis and diagnosis; Strategy formulation search for advantages and business possibilities in Chhattisgarh.		15
III	Organizing : Concept, nature, process and significance; authority and resident relationship; Centralization and Decentralization; Departmentalization, Organization structure – forms and contingency factors. Decision making: Features of Decision making, Role of Decision making in Management, Types of Managerial Decision, Steps in Decision making process, Decision techniques; Principles of Decision making.		15
IV	Controlling and Budgeting: Nature of Control, Relationship between Planning and Control, Need for Control; Significance and Limitations of Control, Types of Control, Process of Control; Budgetary Control, Performance Budgeting; Zero Based Budgeting; Management Audit; Networks Techniques.		15
Keywords	Management, Planning, Organising, Decision Making, Controlling and Budgeting.		
PART-C: LearningResources			
TextBooks,ReferenceBooksand Others			
TextBooksRecommended –			
1. Drucker Peter F: Management Challenges for the 21 st century; Butterworth Heinemann.			
2. Wehrich and Koontz, Essentials of Management; Tata Mc Graw Hill, New Delhi.			
3. P.C. Tripathi : Principles of Management Mc Graw Hill Education 6 thedition.			
4. Terry and Frankin; Principles of Management; AITBS, New Delhi.			
5. M.Gupta: Principles of Management; Motilal U.K. Books of India New Delhi			
Online Resources–			
https://www.kopykitab.com/			
https://www.hitbullseye.com/grad-			
PART-D:AssessmentandEvaluation			
Suggested Continuous Evaluation Methods:			
Maximum Marks:		100Marks	
ContinuousInternalAssessment(CIA):		30Marks	
EndSemesterExam(ESE):		70 Marks	



Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test/Quiz-(2):20&20 Assignment/Seminar- 10 Total Marks- 30	Better marks out of the two Test/ Quiz + obtained marks in Assignments shall be considered against 30 Marks
End Semester Exam (ESE):	Two section – A & B Section A: Q1. Objective – 10x1=10 Mark; Q2. Short answer type – 5x4=20 Marks Section B: Descriptive answer type qts., 1 out of 2 from each unit – 4x10=40 Marks	

Name and Signature of Convenor & Members (CBoS):



 The image shows three handwritten signatures in blue ink. The first signature is on the left, the second is in the middle, and the third is on the right. They appear to be the names of the convenor and members of the CBoS.

**FOUR YEAR UNDERGRADUATE PROGRAM (2024-28)
DEPARTMENT OF SOCIOLOGY COURSE CURRICULUM**


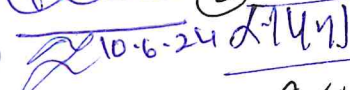




PART-A : INTRODUCTION		
PROGRAM: PROGRAM: Bachelor in Arts (Certificate/Diploma/Degree/Honors)		SEMESTER-I
SESSION:2024-25		
SUBJECT: SOCIOLOGY		
1	COURSE CODE:	SOGE -01
2	COURSE TITLE:	INTRODUCTION TO SOCIOLOGY
3	COURSE TYPE:	DGE 01
4	Pre-requisite	As per Government norms
5	COURSE LEARNING OUTCOME (CLO):	<p>After completion of the course, the student will be able to achieve the following objectives-</p> <ul style="list-style-type: none"> • The course is designed to incorporate all the key concept of sociology which would enable the learner to develop keen insight to distinguish between the common sense knowledge and sociological knowledge • The conceptual learning of society association institution community will help the student with their day to day understanding of society • The concept of Indian social institution such as family marriage kinship will enable students to consider their roles in solving many problems. • Concept of globalization and media imperialism will make students to understand global geopolitical scenario conceptually. • Concept of social stratification and social change will make the students better understand the concept of different generational gap and minimize it in due course.
6	CREDIT VALUE:	04(Credit= 15 Hour- Learning and observation)
7	TOTAL MARKS:	MAX MARKS:100 MIN PASS MARKS:40
PART-B : CONTENT OF THE COURSE		
Total Number of Teaching-Learning Periods(01 hr. Per Period)- 60 Period (60 Hours)		
UNIT	TOPICS	No. of Periods
UNIT-I Introduction to Sociology	<ol style="list-style-type: none"> 1. Sociology as a Discipline: Meaning Emergence and Scope 2. Community and Society, Institution and Association 3. Relationship with other social Sciences 4. Concept of Role and Status 	15
UNIT-II Social Institution	<ol style="list-style-type: none"> 1. Relationship between Individual and Society 2. Socialization: Process and Importance 3. Family, Marriage and Kinship 4. Mutual Relationship between Culture and Civilization 	15
UNIT-III Social Process	<ol style="list-style-type: none"> 1. Interaction, Cooperation, Competition, Conflict 2. Caste and Class: Concept and Critique 3. Social Control: Characteristics and Impact 4. Industrialization and its Impact 	15
UNIT-IV Social Stratification and Social Change	<ol style="list-style-type: none"> 1. Social Stratification: Concept 2. Social Stratification: Factors 3. Social Change : Concept 4. Social Change: Types 	15
Signature of Convener & Members :		


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PART-C : LEARNING RESOURCES ,REFERENCE BOOKS& OTHERS		
AUTHOR	TITLE	PUBLISHER
TEXTBOOK		
Haralambos and Holborn	Sociology :Themes and Prespective	Collins
Anthony Giddens and Philip W. Sutton	Sociology	Atlantic Publisher and Distributors Private Limited
C.N.Shankar Rao	Sociology: Principles of Sociology with an introduction of social thought	S Chand and Co.
Vidya Bhushan and D.R. Sachdeva	An Introduction to Sociology	Kitab Bhawan Publication
REFERENCE		
Anthony Giddens	Sociology	Oxford University Press
Vineeta Pandey	Indian Society and Culture	Rawat Publucation
Hortun and Hunt	Sociology- The Discipline and its Dimensions	New Central Book Agency
Online Resources		
1	https://www.swayamprabha.gov.in/index.php	
2	https://vidyamitra.inflibnet.ac.in/index.php	
3	https://epgp.inflibnet.ac.in/Home/ViewSubject	
4	https://descg.gov.in/	

PART-D : ASSESSMENT ANDEVALUATION		
Suggested Continuous Evaluation Methods:		
Maximum Marks:		
	100 Marks	Continuous
Internal Assessment (CIA):	30 Marks	
End Semester Exam (ESE):	70 Marks	
Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test/Quiz-(2): 20&20 Assignment/Seminar- 10 Total Marks- 30	Better marks out of the two Test/Quiz +obtained marks in Assignments shall be considered against 30 Marks
End Semester Exam (ESE):	Two section - A & B Section A: Q1. Objective - 10x1=10 Marks; Q2. Short answer type - 5x4=20 Marks Section B: Descriptive answer type qts., 1 out of 2 from each unit - 4x10=40 Marks	

Name and Signature of Convener & Members of CBoS

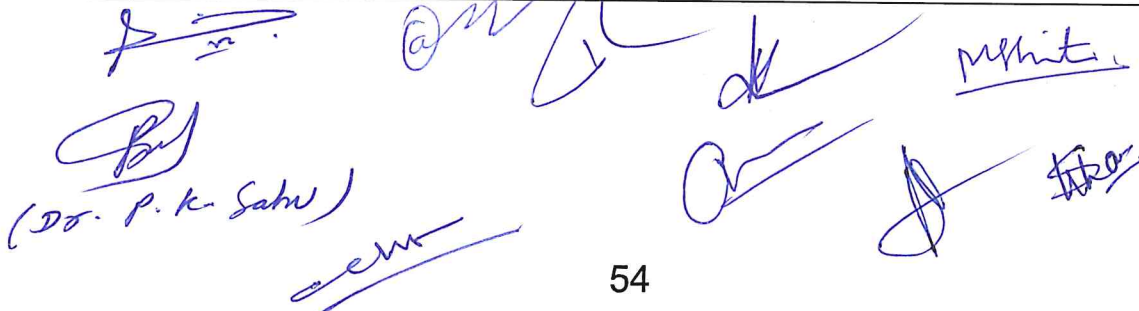
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FOUR YEAR UNDER GRADUATE PROGRAM(2024-28)
DEPARTMENT OF MATHEMATICS
COURSE CURRICULUM

Part A: Introduction			
Program: Bachelor in Science (Certificate/Diploma/Degree/Honors)		Class: B.Sc. I/III/V Sem	Session:2024-2025
1	Course Code	MAVAC-1	
2	Course Title	Basic Mathematics and Logic	
3	Course Type	Value Addition Course	
4	Course Learning Outcome (CLO)	<p>This Course will enable the students-</p> <ul style="list-style-type: none"> ➤ To orient them towards life-long learning, to develop power of concentration and to overcome the fear of mathematics from their mind. ➤ To cultivate scientific temper through systematic, critical and lateral thinking. ➤ To enhance their logical, analytical and reasoning skills useful for competitive exams. ➤ To make understand the relevance and need of quantitative methods for making business decisions. 	
5	Credit Value	2 Credits	<i>Credit = 15 Hours - learning & Observation</i>
6	Total Marks	Max. Marks: 50	Min Passing Marks: 20

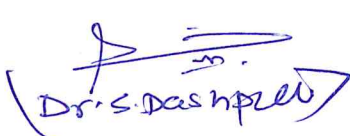
PART -B: Content of the Course		
Total No. of Teaching-learning Periods (01 Hr. per period) - 30 Periods (30 Hours)		
Unit	Topics (Course contents)	No. of Period
Basic Mathematics		
I	Brief history of Vedic Mathematics (In Indian Knowledge Tradition), Sanskrit terminology involved in 16 Sutras and 13 Sub-Sutras and their meaning , Addition , Subtraction , Multiplication & Division using different techniques of Vedic Mathematics , Squaring numbers , Square roots of perfect squares , Cube roots of perfect cubes , Methods of quick verification of answers through Digit Sum Method	8
II	Problem based on Numbers, Decimal Fractions, Average, Simple Interest , Percentage ,Clocks	8
III	Problems on Profit & Loss , Discount, Ages, Speed, Time & Distance, Train , Ratio & Proportion, Mixture	8

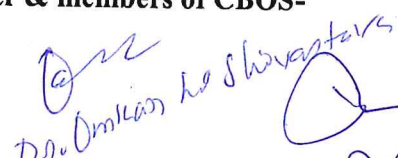

 (Dr. P. K. Sahu)


IV	Logical Ability: Problems on Series Completion , Coding- Decoding , Inserting the Missing Character , Problems on Mirror Image & Water Image Problems on Blood relations , Direction Sense Tests , Cubes & Dice , Logical Deductions based on Universal, Particular, Affermative & Negative Premises.	6
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Part C - Learning Resource		
Text Books, Reference Books, Other Resources		
Text Books Recommended-		
1. Dr. R.S. Aggarwal, Quantitative Aptitude, S. Chand and Company Ltd., New Delhi. 2. Abhijit Guha, Quantitative Aptitude, Tata McGraw Hill Publishing Company Limited., New Delhi. 3. Dr. R.S. Aggarwal , Verbal & Non –Verbal Reasoning , S. Chand and Company Ltd., New Delhi		
Reference Books Recommended-		
4. Rajesh Kumar Singh , Tricky Mathematics , Success Mantra Publications , Patna 5. Govind Prasad Singh & Rakesh Kumar , Text Book of Quickest Mathematics (For all Competitive Examinations) 6. Vedic Mathematics Made Easy Published by Dhaval Bhatia		
PART -D: Assessment and Evaluation		
Suggested Continuous Evaluation Methods:		
Maximum Marks:	50 Marks	
Continuous Internal Assessment (CIA):	15 Marks	
End Semester Exam (ESE):	35 Marks	
Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 10 & 10 Assignment/Seminar + Attendance - 05 Total Marks - 15	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks
End Semester Exam (ESE):	Two section – A & B Section A: Q1. Objective – 05 x1= 05 Mark; Q2. Short answer type- 5x2 =10 Marks Section B: Descriptive answer type qts., 1 out of 2 from each unit- 4x05 =20 Marks	

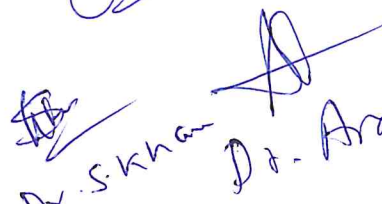
Name and signature of convener & members of CBOS-



 Dr. S. Dasgupta


 Dr. Omkar K. Shrivastava


 Dr. Madhu Shrivastava


 Dr. P. K. Sahu


 Dr. S. Khan


 Dr. Aradhana Sharma

